

**Total
Environmental
Concepts, Inc.**

Setting the Standard in Comprehensive Environmental Solutions

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Indoor Air Quality Assessment Report

at

Minnie Howard High School
3801 West Braddock Rd,
Alexandria, VA 22302



Report Prepared for:

John Contreras
Alexandria City Public Schools
1340 Braddock Place
Alexandria VA 22314

*Dated: September 22, 2021
Revision 1*

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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 Technology
NVLAP	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 Washington Middle 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 MacArthur 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 Minnie Howard High School on Wednesday, August 18, 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. All samples were prepared by TEC for shipment to a NVLAP (National Voluntary Laboratory Accreditation Program) accredited laboratory under strict chain-of custody (CoC).

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 recommendaitons during this limited IAQ investigation:

- **Radon** – levels recorded in all locations were less than 4pCi/L, as recommended by EPA and HUD.
- **Mold** – indoor spore levels recorded during air sampling in all sampling locations were within acceptable ranges, when compared to site-specific background mold spore counts.

The following conditions were observed:

- Evidence of watter intrusion was observed in numerous locations throughout the school. Water staining was observed on ceiling tiles and on the floors along the foundation of the building.
- Swab samples were collected in areas where suspected mold growth was observed. Four swab samples in total were collected. One of the samples, collected near Exit 15, tested positive for Alternaria, a genus of Deuteromycetes fungi. Alernaria grows on decaying plant matter and soil. While exposure to high levels of Alternaria can potentially have serious adverse health effects, the levels detected were very light. Ther was also no mycelial growth noted during laboratory analysis.
- While active water intrusion was not observed, TEC would recommend that ACPS investigate the source of the water staining at the building foundation and investigate the source of water staining above drop celings.
- **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.

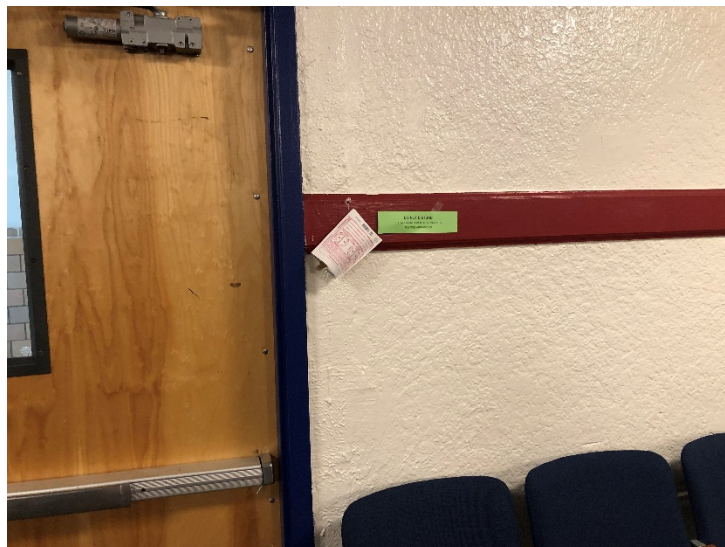
2. Assesment Methods

Under the direction of TEC Industrial Hygienist Nikki Satari; Margaret Stanger, Victoria Powers, and Channing Jackson, also of TEC, conducted IAQ inspections and air sampling on August 18, 2021. 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. Monitors 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. Photograph Below.



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. Photograph Below.



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. Photograph Below.








The temperature and relative humidity were taken with the AcuRite Digital Indoor Temperature and Humidity Monitor in the lobby of each school. Temperature 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. Results can be found in Table 1 below. Photograph Below.



3. Visual Observations

Sample Location	August 18, 2021	Visual Observations
Auditorium	Water staining was observed along the ceiling of the auditorium.	
Hallway by Room 113 and 115	Water staining was observed on the ceiling tiles of the hallway by room 113 and 115.	

<p>Hallway Lower Level by Room 27</p>	<p>Water stain observed on the ceiling tile and floor of the Lower Level hallway by room 27.</p>	
<p>Exit 13</p>	<p>Water Stain observed on the ceiling tile and floor of Exit 13.</p>	
<p>Hallway by Room 222</p>	<p>Water staining along the ceiling tiles by room 222</p>	

Exit 15	Water staining along the ceiling tile of Exit 15.	
Room 216	Water staining on the ceiling tile of room 216.	

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 indicate 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

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.

Mold spores are also part of the natural environment. However, excess mold growth may arise as a result of excess moisture, i.e., 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.

Airborn mold spore counts were within acceptable ranges when compared to spore counts collected outside for baseline. One physical mold sample, collected near Exit 15, tested positive for *Alternaria* mold spores. The spore count for *Alternaria* was low and there was no evidence of mycelial growth

Mold spores are part of the natural environment, and these mold spores may have been trapped inside through open windows or open doors. Though heavy growths of *Alternaria* is associated with potential adverse health effects, risks are minimal at these levels. TEC recommends that ACPS investigate areas where signs of water intrusion are easily observed. Areas around the building foundation and above drop ceilings should be a priority. Mold in air and mold swab analytical results can be found in Appendix A.

None of the other results from sampling locations at Minnie Howard High School were indicative of mold issues.

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 C.

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 indicated elevated levels of pch. Analytical results can be found in Appendix E.

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-Gas Detector Readings

Location	VOC	CO	OXYGEN	H2S
Hall 019	0.0	0.0	20.5	0.0
Class 027	0.0	0.0	20.4	0.0
Cafeteria	0.0	0.0	20.5	0.0
Main Gym	0.0	0.0	20.5	0.0
Auditorium	0.0	0.0	20.9	0.0
Media Center	0.1	0.0	20.9	0.0
Class 164	0.0	0.0	20.9	0.0
Hall 157	0.0	0.0	20.9	0.0
Class 144	0.0	0.0	20.9	0.0
Class 142	0.0	0.0	20.9	0.0
Reception	0.0	0.0	20.9	0.0
Class 115	0.0	0.0	20.9	0.0
Class 114	0.0	0.0	20.9	0.0
Class 209	0.0	0.0	20.5	0.0
Class 216	0.0	0.0	20.4	0.0

Table 2

Results of Analytes by Location						
Location	Radon	Mold		TO+15 VOCs	4PCH	Formaldehyde
		AVG: 72 F	AVG: 63 %			
Hall 019	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 027	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Cafeteria	< 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
Auditorium	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Media Center	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 164	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hall 157	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 144	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 142	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Reception	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 115	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 114	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 209	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 216	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL

Appendix A: Mold Analytical Results

Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road
Suite B
Lorton, VA 22079

Phone: (571) 289-2173

Minnie Howard School

Collected: **August 18, 2021**
Received: **August 19, 2021**
Reported: **August 19, 2021**

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 20 samples by FedEx in good condition for this project on August 19th, 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



Lab ID: #188863



DPH License: #PH-0198

Sample Number	1	MH4315343			2	MH4315344			3	MH4315357			4	MH4315350		
Sample Name	MH Cafeteria			MH Avd			MH Library			MH 164						
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			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	5	67	62.5%	5	67	71.4%	2	27	100.0%	14	187	63.6%				
Aspergillus Penicillium	2	27	25.0%													
Basidiospores	1	13	12.5%	1	13	14.3%				6	80	27.3%				
Bipolaris Drechslera																
Chaetomium																
Cladosporium										2	27	9.1%				
Curvularia																
Epicoccum				1	13	14.3%										
Fusarium																
Memnoniella																
Myxomycetes																
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Cercospora																
Total	8	107	100%	7	93	100%	2	27	100%	22	294	100%				

Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
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Collected: **Aug 18, 2021**

Received: **Aug 19, 2021**

Reported: **Aug 19, 2021**



Project Analyst:
 Ramesh Poluri, PhD

P. Ramesh

Date:
08 - 19 - 2021

Reviewed By:
 Steve Hayes, BSMT

Stephen N. Hayes

Date:
08 - 19 - 2021

Sample Number	5 MH4315349			6 MH4315352			7 MH4315354			8 MH4315355		
Sample Name	MH Hallway 157			MH 27			MH Hallway 19			MH Gym		
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			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	2	27	66.7%	5	67	71.4%	3	40	42.9%	2	27	66.7%
Aspergillus Penicillium												
Basidiospores	1	13	33.3%	1	13	14.3%	1	13	14.3%			
Bipolaris Drechslera												
Chaetomium												
Cladosporium				1	13	14.3%	3	40	42.9%	1	13	33.3%
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Cercospora												
Total	3	40	100%	7	93	100%	7	93	100%	3	40	100%

Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
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Date:
08 - 19 - 2021

Sample Number	9	MH4315346			10	MH4315348			11	MH4315353			12	MH4315366		
Sample Name	MH Outside			MH 216			MH 209			MH 149						
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			1			1			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	1	13	<1%													
Ascospores	400	5333	61.6%	2	27	100.0%	1	13	50.0%	3	40	75.0%				
Aspergillus Penicillium	3	40	<1%													
Basidiospores	216	2880	33.3%				1	13	50.0%	1	13	25.0%				
Bipolaris Drechslera	1	13	<1%													
Chaetomium																
Cladosporium	16	213	2.5%													
Curvularia	2	27	<1%													
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes	1	13	<1%													
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Cercospora	9	120	1.4%													
Total	649	8652	100%	2	27	100%	2	26	100%	4	53	100%				

Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
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Reviewed By:
 Steve Hayes, BSMT

Stephen N. Hayes

Date:
08 - 19 - 2021

Sample Number	13	MH4315363			14	MH4315367			15	MH4315359			16	MH4315360		
Sample Name	MH 142			MH Reception			MH 115			MH 114						
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	1			2			2			1						
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							1	13	33.3%							
Ascospores	2	27	66.7%	3	40	33.3%	2	27	66.7%	1	13	50.0%				
Aspergillus Penicillium																
Basidiospores				1	13	11.1%										
Bipolaris Drechslera																
Chaetomium																
Cladosporium										1	13	50.0%				
Curvularia																
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes	1	13	33.3%	5	67	55.6%										
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Cercospora																
Total	3	40	100%	9	120	100%	3	40	100%	2	26	100%				

Water Damage Indicator	Common Allergen	Slightly Higher than Baseline	Significantly Higher than Baseline	Ratio Abnormality
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Date:
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Stephen N. Hayes

Date:
08 - 19 - 2021

#	Swab (1.00 cm2)	Organism	Spore Estimate	Mycelial Estimate
#17	MH-1 - MH Hall2way - LFL	No Fungi Detected		
#18	MH-2 - MH Exit 12 - LFL	No Fungi Detected		
#19	MH-3 - MH Exit 13 - LFL	No Fungi Detected		
#20	MH-4 - MH Exit 15 - LFL	Alternaria	Light	ND



Collected: **Aug 18, 2021**

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Project Analyst:
 Ramesh Poluri, PhD *P. Ramesh*

Date:
08 - 19 - 2021

Reviewed By:
 Steve Hayes, BSMT *Stephen N. Hayes*

Date:
08 - 19 - 2021

Spore Trap Information

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	<p>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:</p> <p>NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</p> <p>1 : <5% of field occluded. No spores will be uncountable.</p> <p>2 : 5-25% of field occluded.</p> <p>3 : 25-75% of field occluded.</p> <p>4 : 75-90% of field occluded.</p> <p>5 : >90% of field occluded. Suggested recollection of sample.</p>										
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.										
<table border="1"> <tr> <td style="background-color: #ADD8E6;">Water Damage Indicator</td> <td>Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.</td> </tr> <tr> <td style="background-color: #90EE90;">Common Allergen</td> <td>Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.</td> </tr> <tr> <td style="background-color: #FFDAB9;">Slightly Higher than Baseline</td> <td>Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.</td> </tr> <tr> <td style="background-color: #FFB6C1;">Significantly Higher than Baseline</td> <td>Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.</td> </tr> <tr> <td style="background-color: #DDA0DD;">Ratio Abnormality</td> <td>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 indoor environment than it was outdoors.</td> </tr> </table>	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.	Significantly Higher than Baseline	Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.	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 indoor environment than it was outdoors.	
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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.										
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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 indoor 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.										

Spore Estimate		Percentages
ND	None Detected	0%
Rare	Less than 10 spores	< 1%
Light	10 - 99 spores	1-10%
Moderate	100 - 999 spores	11-25%
Heavy	1000 - 9999 spores	26-50%
Very Heavy	10000 or greater spores	51-100%

Mycelial 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.

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.
Bipolaris Drechslera	Habitat: They are found in soil and as plant pathogens. Can grow indoors on a variety of substrates. Effects: They may be allergenic and are very commonly involved in allergic fungal sinusitis. They are opportunistic pathogens but occasionally infect healthy individuals, causing keratitis, sinusitis and osteomyelitis.
Cercospora	Habitat: Found on wood and decaying plant matter. Effects: Health effects are poorly studied.

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.

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 disseminated 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.

Minnie Howard School



Placement Tech	Victoria P	Sample Type	MOA
Placement Date	8/18/02	Email	KFord@ecipro
Address	3801 WEST broadacre rd		Alexandria

Sample #	Location / room	Flow Rate	Sampling Time	Pump Start Time	Pump End Time	Comments
MH 4315343	MH cafeteria	10 L/m	7.5 m	10:08	10:15	
MH 4315344	MH Pond			10:18	10:26	
MH 4315357	MH library			10:30	10:37	
MH 4315358	MH 164			10:41	10:48	
MH 4315349	MH hallway 157			10:53	11:00	
MH 4315352	MH 27			10:11	10:19	
MH 4315354	MH hallway 19			10:35	10:43	
MH 4315355	MH gym			10:23	10:30	
MH 4315346	MH 8th side			10:54	10:11	damp/mass
MH 4315348	MH 216			10:25	10:33	
MH 4315353	MH 209			10:39	10:46	
MH 4315366	MH 149			10:51	10:59	
MH 4315363	MH 142			11:04	11:12	
MH 4315367	MH reception			11:16	11:24	
MH 4315359	MH NS			11:28	11:36	
MH 4315360	MH 114			11:39	11:47	
MH-1	MH Hallway-LFL					SWAB
MH-2	MH EX:112-LFL					SWAB
MH-3	MH EX:113-LFL					SWAB
MH-4	MH EX:115-LFL					SWAB

Minnie Howard School



Placement Tech	Victoria P	Sample Type	MOA
Placement Date	8/18/02	Email	KFord@ecipro
Address	3801 WEST broadacre rd		Alexandria

Sample #	Location / room	Flow Rate	Sampling Time	Pump Start Time	Pump End Time	Comments
MH 4315343	MH cafeteria	10 L/m	7.5 m	10:08	10:15	
MH 4315344	MH Pond			10:18	10:26	
MH 4315357	MH library			10:30	10:37	
MH 4315358	MH 164			10:41	10:48	
MH 4315349	MH hallway 157			10:53	11:00	
MH 4315352	MH 27			10:11	10:19	
MH 4315354	MH hallway 19			10:35	10:43	
MH 4315355	MH gym			10:23	10:30	
MH 4315346	MH 8th side			10:54	10:11	damp/mass
MH 4315348	MH 216			10:25	10:33	
MH 4315353	MH 209			10:39	10:46	
MH 4315366	MH 149			10:51	10:59	
MH 4315363	MH 142			11:04	11:12	
MH 4315367	MH reception			11:16	11:24	
MH 4315359	MH NS			11:28	11:36	
MH 4315360	MH 114			11:39	11:47	
MH-1	MH Hallway-LFL					SWAB
MH-2	MH EX:112-LFL					SWAB
MH-3	MH EX:113-LFL					SWAB
MH-4	MH EX:115-LFL					SWAB

Appendix B: Radon Analytical Results

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723701 Result: 0.5 ± 0.3 pCi/l

Location:

Cafe 1

Mh

,

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 12:00 pm

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 75 hours 14.0% 70°F

Kit #: 9723702 Result: < 0.3 pCi/l

Location:

Cafe 2

Mh

,

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 12:00 pm

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 75 hours 15.4% 70°F

Kit #: 9723703 Result: < 0.3 pCi/l

Location:

Gym 1

Mh

,

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 12:00 pm

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 75 hours 14.8% 70°F

Kit #: 9723704 Result: < 0.3 pCi/l

Location:

164

Mh

,

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 11:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 76 hours 14.2% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723715 Result: 0.6 ± 0.3 pCi/l

Location:

Mh

149

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 10:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 77 hours 11.8% 70°F

Kit #: 9723716 Result: < 0.3 pCi/l

Location:

Mh

media center 2

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 11:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 76 hours 11.9% 70°F

Kit #: 9723717 Result: 0.7 ± 0.3 pCi/l

Location:

Mh

115

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 11:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 76 hours 13.2% 70°F

Kit #: 9723718 Result: < 0.3 pCi/l

Location:

Mh

gym 2

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 12:00 pm

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 75 hours 14.4% 70°F

Kit #: 9723719 Result: < 0.3 pCi/l

Location:

Mh

Aud 1

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 11:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 76 hours 11.8% 70°F

Kit #: 9723720 Result: < 0.3 pCi/l

Location:

Mh

main office

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 10:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 77 hours 13.7% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723708 Result: 0.6 ± 0.3 pCi/l

Location:

Mm

114

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 11:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 76 hours 13.5% 70°F

Kit #: 9723710 Result: < 0.3 pCi/l

Location:

Mh

027

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 12:00 pm

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 75 hours 12.3% 70°F

Kit #: 9723711 Result: < 0.3 pCi/l

Location:

Mh

hall 1019 cafe

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 12:00 pm

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 75 hours 14.9% 70°F

Kit #: 9723714 Result: < 0.3 pCi/l

Location:

Mm

216D

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 10:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 77 hours 13.6% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723721 Result: < 0.3 pCi/l

Location:

Mh

Aud 2

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 11:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 76 hours 11.6% 70°F

Kit #: 9723722 Result: < 0.3 pCi/l

Location:

Mh

142

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 10:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 77 hours 14.1% 70°F

Kit #: 9723723 Result: < 0.3 pCi/l

Location:

Mh

216

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 10:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 77 hours 14.3% 70°F

Kit #: 9723724 Result: < 0.3 pCi/l

Location:

Mh

209

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 10:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 77 hours 12.2% 70°F

Kit #: 9723725 Result: < 0.3 pCi/l

Location:

Mh

hall R157 R158

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 10:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 77 hours 13.6% 70°F

Kit #: 9723726 Result: < 0.3 pCi/l

Location:

Mh

media center 1

Analysis Note :

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 11:00 am

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 76 hours 11.4% 70°F

August 25, 2021

**** LABORATORY ANALYSIS REPORT ****

Pg 5 of 5

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723727 Result: < 0.3 pCi/l

Analysis Note :

Location:

Analyzed : 2021-08-25 at 10:00 am

Started : 2021-08-18 at 10:00 am

Mh

216 B

Ended : 2021-08-21 at 3:00 pm

Hours/MST% : 77 hours 6.0% 70°F

H: 65
T: 73

Minnie Howard



Payment Type	Message + Nicks	Receipt Type	addon	Print Date	
Payment Date	8/16/21	Receipt Media		Print Date	
Address				Email	Lford@tec..pro

Source #	Location / room	DOY 2000	INVC Y/N	Widow Y/N	FA Y/N	Time In	Time Out	Comment
MH9723727B	MH216B		Y	Y	N	10:06		
MH9723723	MH216		Y	Y	N	10:06		
MH9723714D	MH216D		Y	Y	N	10:06		
MH9723724	MH209		Y	Y	N	10:12		
MH9723720	MHmanoffice		Y	Y	N	10:20		
MH9723722	MH142		Y	Y	N	10:28		
MH9723715	MH149		Y	Y	N	10:33		
MH9723725	MH119		Y	Y	N	10:36		
MH9723764	MH164		Y	Y	N	10:43		
MH9723726	MHmedia center-1		Y	Y	N	10:46		
MH9723716	MHmedia center-2		Y	Y	N	10:48		
MH9723719	MH Auditorium-1		Y	Y	N	10:55		
MH9723721	MH Auditorium-2		Y	Y	N	10:55		
MH9723717	MH115		Y	Y	N	11:09		
MH9723708	MH114		Y	Y	N	11:14		
MH9723701	MH cafeteria-1		Y	Y	N	12:00		
MH9723702	MH cafeteria-2		Y	Y	N	12:06		
MH9723711	MH Hill PD99 cafeteria		Y	Y	N	12:07		
MH9723710	MH027		Y	Y	N	12:11		
MH9723710	MH027		Y	Y	N	12:11		
MH9723703	MH GYM-1		Y	Y	N	12:21		
MH9723718	MH GYM-2		Y	Y	N	12:21		
MH	MH							

Appendix C: VOCs (TO+15) Analytical Results

Project Name: ACPS IAQ Testing
PSS Project No.: 21082718

September 13, 2021

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



Reference: PSS Project No: **21082718**
Project Name: ACPS IAQ Testing
Project Location: Minnie Howard School
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) **21082718**.


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 October 1, 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

Project Name: ACPS IAQ Testing

PSS Project No.: 21082718

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 08/27/2021 at 01:57 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21082718-001	MH-Cafe	AIR	08/19/21 17:00
21082718-002	MH-Hallway 19	AIR	08/19/21 17:05
21082718-003	MH-27 Class	AIR	08/19/21 17:12
21082718-004	MH-Gym	AIR	08/19/21 17:15
21082718-005	MH-216	AIR	08/19/21 17:23
21082718-006	MH-209	AIR	08/19/21 17:25
21082718-007	MH-Hall 157	AIR	08/19/21 17:28
21082718-008	MH-164 Class	AIR	08/19/21 17:31
21082718-009	MH-Media Center	AIR	08/19/21 17:31
21082718-010	MH-Auditorium	AIR	08/19/21 17:37
21082718-011	MH-114 Class	AIR	08/19/21 17:39
21082718-012	MH-115 Class	AIR	08/19/21 17:40
21082718-013	MH-142 Class	AIR	08/19/21 17:47
21082718-014	MH-149 Class	AIR	08/19/21 17:50
21082718-015	MH-Courtyard	AIR	08/19/21 17:55

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 contaminants, and part 141.3, for the secondary drinking water contaminants.
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

Project Name: ACPS IAQ Testing

PSS Project No.: 21082718

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.
- J 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



GALSON

**Ms. Amber Confer
Phase Separation Science, Inc.
6630 Baltimore National Pike
Baltimore, MD 21228**

September 13, 2021

Account# 15354

Login# L545484

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on August 31, 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**

Enclosure(s)

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.sgs.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.sgs.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 Regulation	Lab ID: 1042	Mold Analysis Laboratory license

Legend

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - 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



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc.
Site : MINNIE HOWARD SCHOOL

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received : 31-AUG-21 Login No. : L545484
Date Analyzed : 10-SEP-21 - 11-SEP-21 Units : ppbv
Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-1 MH-CAFE	L545484-2 MH-HALLWAY 19	L545484-3 MH-27 CLASS
Propylene	5.0	<5.0	<5.0	<5.0
Freon-12	0.80	<0.80	<0.80	<0.80
Chloromethane	0.80	<0.80	<0.80	<0.80
Freon-114	0.80	<0.80	<0.80	<0.80
Vinyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Butadiene	0.80	<0.80	<0.80	<0.80
n-Butane	0.80	6.8	7.4	5.2
Bromomethane	0.80	<0.80	<0.80	<0.80
Chloroethane	0.80	<0.80	<0.80	<0.80
Acetonitrile	5.0	<5.0	<5.0	<5.0
Vinyl Bromide	0.80	<0.80	<0.80	<0.80
Acrolein	0.80	1.0	<0.80	<0.80
Acetone	5.0	11	5.5	5.7
Freon-11	0.80	<0.80	<0.80	<0.80
Isopropyl Alcohol	5.0	<5.0	<5.0	<5.0
Acrylonitrile	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



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Site : MINNIE HOWARD SCHOOL

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received : 31-AUG-21 Login No. : L545484
Date Analyzed : 10-SEP-21 - 11-SEP-21 Units : ppbv
Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-1 MH-CAFE	L545484-2 MH-HALLWAY 19	L545484-3 MH-27 CLASS
Pentane	0.80	1.4	1.5	1.1
Ethyl Bromide	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethene	0.80	<0.80	<0.80	<0.80
tert-Butyl Alcohol	5.0	<5.0	<5.0	<5.0
Methylene Chloride	0.80	<0.80	<0.80	<0.80
Freon-113	0.80	<0.80	<0.80	<0.80
Carbon Disulfide	5.0	<5.0	<5.0	<5.0
Allyl Chloride	0.80	<0.80	<0.80	<0.80
trans-1,2-Dichloroethene	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethane	0.80	<0.80	<0.80	<0.80
Methyl tert-Butyl Ether	0.80	<0.80	<0.80	<0.80
Vinyl Acetate	0.80	<0.80	<0.80	<0.80
Methyl Ethyl Ketone	0.80	1.6	<0.80	<0.80
cis-1,2-Dichloroethylene	0.80	<0.80	<0.80	<0.80
Hexane	0.80	<0.80	<0.80	<0.80
Ethyl Acetate	0.80	1.8	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



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Site : MINNIE HOWARD SCHOOL

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received : 31-AUG-21 Login No. : L545484
Date Analyzed : 10-SEP-21 - 11-SEP-21 Units : ppbv
Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-1 MH-CAFE	L545484-2 MH-HALLWAY 19	L545484-3 MH-27 CLASS
Chloroform	0.80	<0.80	<0.80	<0.80
Tetrahydrofuran	0.80	<0.80	<0.80	<0.80
1,2-Dichloroethane	0.80	<0.80	<0.80	<0.80
1,1,1-Trichloroethane	0.80	<0.80	<0.80	<0.80
Benzene	0.80	<0.80	<0.80	<0.80
Carbon Tetrachloride	0.80	<0.80	<0.80	<0.80
Cyclohexane	0.80	<0.80	<0.80	<0.80
1,2-Dichloropropane	0.80	<0.80	<0.80	<0.80
Bromodichloromethane	0.80	<0.80	<0.80	<0.80
1,4-Dioxane	0.80	<0.80	<0.80	<0.80
Trichloroethylene	0.80	<0.80	<0.80	<0.80
2,2,4-Trimethylpentane	0.80	<0.80	<0.80	<0.80
Methyl Methacrylate	0.80	<0.80	<0.80	<0.80
Heptane	0.80	<0.80	<0.80	<0.80
cis-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80
trans-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



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Client : Phase Separation Science, Inc.
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Date Sampled : 19-AUG-21 Account No.: 15354
Date Received : 31-AUG-21 Login No. : L545484
Date Analyzed : 10-SEP-21 - 11-SEP-21 Units : ppbv
Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-1 MH-CAFE	L545484-2 MH-HALLWAY 19	L545484-3 MH-27 CLASS
1,1,2-Trichloroethane	0.80	<0.80	<0.80	<0.80
Methyl Isobutyl Ketone	0.80	<0.80	<0.80	<0.80
Toluene	0.80	2.1	<0.80	<0.80
Methyl Butyl Ketone	0.80	<0.80	<0.80	<0.80
Dibromochloromethane	0.80	<0.80	<0.80	<0.80
1,2-Dibromoethane	0.80	<0.80	<0.80	<0.80
Tetrachloroethylene	0.80	<0.80	<0.80	<0.80
Chlorobenzene	0.80	<0.80	<0.80	<0.80
Ethylbenzene	0.80	<0.80	<0.80	<0.80
m & p-Xylene	1.6	<1.6	<1.6	<1.6
Bromoform	0.80	<0.80	<0.80	<0.80
Styrene	0.80	<0.80	<0.80	<0.80
1,1,2,2-Tetrachloroethan	0.80	<0.80	<0.80	<0.80
o-Xylene	0.80	<0.80	<0.80	<0.80
Nonane	0.80	<0.80	<0.80	<0.80
Cumene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



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Date Analyzed : 10-SEP-21 - 11-SEP-21 Units : ppbv
Report ID : 1264450

Galson ID:	LOQ	L545484-1	L545484-2	L545484-3
Client ID:	ppbv	MH-CAFE	MH-HALLWAY 19	MH-27 CLASS
2-Chlorotoluene	0.80	<0.80	<0.80	<0.80
n-Propylbenzene	0.80	<0.80	<0.80	<0.80
4-Ethyltoluene	0.80	<0.80	<0.80	<0.80
1,3,5-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
1,2,4-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
Benzyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,4-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,2-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
Naphthalene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
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Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-4 MH-GYM	L545484-5 MH-216	L545484-6 MH-209
Propylene	5.0	<5.0	<5.0	<5.0
Freon-12	0.80	<0.80	<0.80	<0.80
Chloromethane	0.80	<0.80	<0.80	<0.80
Freon-114	0.80	<0.80	<0.80	<0.80
Vinyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Butadiene	0.80	<0.80	<0.80	<0.80
n-Butane	0.80	5.3	<0.80	<0.80
Bromomethane	0.80	<0.80	<0.80	<0.80
Chloroethane	0.80	<0.80	<0.80	<0.80
Acetonitrile	5.0	<5.0	<5.0	<5.0
Vinyl Bromide	0.80	<0.80	<0.80	<0.80
Acrolein	0.80	<0.80	<0.80	<0.80
Acetone	5.0	<5.0	6.3	5.6
Freon-11	0.80	<0.80	<0.80	<0.80
Isopropyl Alcohol	5.0	<5.0	15	5.1
Acrylonitrile	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
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Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-4 MH-GYM	L545484-5 MH-216	L545484-6 MH-209
Pentane	0.80	1.3	1.1	1.0
Ethyl Bromide	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethene	0.80	<0.80	<0.80	<0.80
tert-Butyl Alcohol	5.0	<5.0	<5.0	<5.0
Methylene Chloride	0.80	<0.80	<0.80	<0.80
Freon-113	0.80	<0.80	<0.80	<0.80
Carbon Disulfide	5.0	<5.0	<5.0	<5.0
Allyl Chloride	0.80	<0.80	<0.80	<0.80
trans-1,2-Dichloroethene	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethane	0.80	<0.80	<0.80	<0.80
Methyl tert-Butyl Ether	0.80	<0.80	<0.80	<0.80
Vinyl Acetate	0.80	<0.80	<0.80	<0.80
Methyl Ethyl Ketone	0.80	<0.80	<0.80	<0.80
cis-1,2-Dichloroethylene	0.80	<0.80	<0.80	<0.80
Hexane	0.80	<0.80	<0.80	<0.80
Ethyl Acetate	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



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Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-4 MH-GYM	L545484-5 MH-216	L545484-6 MH-209
Chloroform	0.80	<0.80	<0.80	<0.80
Tetrahydrofuran	0.80	<0.80	<0.80	<0.80
1,2-Dichloroethane	0.80	<0.80	<0.80	<0.80
1,1,1-Trichloroethane	0.80	<0.80	<0.80	<0.80
Benzene	0.80	<0.80	<0.80	<0.80
Carbon Tetrachloride	0.80	<0.80	<0.80	<0.80
Cyclohexane	0.80	<0.80	<0.80	<0.80
1,2-Dichloropropane	0.80	<0.80	<0.80	<0.80
Bromodichloromethane	0.80	<0.80	<0.80	<0.80
1,4-Dioxane	0.80	<0.80	<0.80	<0.80
Trichloroethylene	0.80	<0.80	<0.80	<0.80
2,2,4-Trimethylpentane	0.80	<0.80	<0.80	<0.80
Methyl Methacrylate	0.80	<0.80	<0.80	<0.80
Heptane	0.80	<0.80	<0.80	<0.80
cis-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80
trans-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



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Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-4 MH-GYM	L545484-5 MH-216	L545484-6 MH-209
1,1,2-Trichloroethane	0.80	<0.80	<0.80	<0.80
Methyl Isobutyl Ketone	0.80	<0.80	<0.80	<0.80
Toluene	0.80	<0.80	<0.80	<0.80
Methyl Butyl Ketone	0.80	<0.80	<0.80	<0.80
Dibromochloromethane	0.80	<0.80	<0.80	<0.80
1,2-Dibromoethane	0.80	<0.80	<0.80	<0.80
Tetrachloroethylene	0.80	<0.80	<0.80	<0.80
Chlorobenzene	0.80	<0.80	<0.80	<0.80
Ethylbenzene	0.80	<0.80	<0.80	<0.80
m & p-Xylene	1.6	<1.6	<1.6	<1.6
Bromoform	0.80	<0.80	<0.80	<0.80
Styrene	0.80	<0.80	<0.80	<0.80
1,1,2,2-Tetrachloroethan	0.80	<0.80	<0.80	<0.80
o-Xylene	0.80	<0.80	<0.80	<0.80
Nonane	0.80	<0.80	<0.80	<0.80
Cumene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



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Galson ID: Client ID:	LOQ ppbv	L545484-4 MH-GYM	L545484-5 MH-216	L545484-6 MH-209
2-Chlorotoluene	0.80	<0.80	<0.80	<0.80
n-Propylbenzene	0.80	<0.80	<0.80	<0.80
4-Ethyltoluene	0.80	<0.80	<0.80	<0.80
1,3,5-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
1,2,4-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
Benzyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,4-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,2-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
Naphthalene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
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Date : 13-SEP-21



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Date Sampled : 19-AUG-21 Account No.: 15354
Date Received : 31-AUG-21 Login No. : L545484
Date Analyzed : 10-SEP-21 - 11-SEP-21 Units : ppbv
Report ID : 1264450

	Galson ID:	LOQ	L545484-7	L545484-8	L545484-9
	Client ID:	ppbv	MH-HALL 157	MH-164 CLASS	MH-MEDIA CENTER
Propylene		5.0	<5.0	<5.0	<5.0
Freon-12		0.80	<0.80	<0.80	<0.80
Chloromethane		0.80	<0.80	<0.80	<0.80
Freon-114		0.80	<0.80	<0.80	<0.80
Vinyl Chloride		0.80	<0.80	<0.80	<0.80
1,3-Butadiene		0.80	<0.80	<0.80	<0.80
n-Butane		0.80	5.9	5.7	9.0
Bromomethane		0.80	<0.80	<0.80	<0.80
Chloroethane		0.80	<0.80	<0.80	<0.80
Acetonitrile		5.0	<5.0	<5.0	<5.0
Vinyl Bromide		0.80	<0.80	<0.80	<0.80
Acrolein		0.80	<0.80	<0.80	<0.80
Acetone		5.0	9.1	7.5	6.2
Freon-11		0.80	<0.80	<0.80	<0.80
Isopropyl Alcohol		5.0	5.3	<5.0	5.8
Acrylonitrile		0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
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Client : Phase Separation Science, Inc.
Site : MINNIE HOWARD SCHOOL

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received : 31-AUG-21 Login No. : L545484
Date Analyzed : 10-SEP-21 - 11-SEP-21 Units : ppbv
Report ID : 1264450

	Galson ID: Client ID:	LOQ ppbv	L545484-7 MH-HALL 157	L545484-8 MH-164 CLASS	L545484-9 MH-MEDIA CENTER
Pentane		0.80	1.1	1.0	1.5
Ethyl Bromide		0.80	<0.80	<0.80	<0.80
1,1-Dichloroethene		0.80	<0.80	<0.80	<0.80
tert-Butyl Alcohol		5.0	<5.0	<5.0	<5.0
Methylene Chloride		0.80	<0.80	<0.80	<0.80
Freon-113		0.80	<0.80	<0.80	<0.80
Carbon Disulfide		5.0	<5.0	<5.0	<5.0
Allyl Chloride		0.80	<0.80	<0.80	<0.80
trans-1,2-Dichloroethene		0.80	<0.80	<0.80	<0.80
1,1-Dichloroethane		0.80	<0.80	<0.80	<0.80
Methyl tert-Butyl Ether		0.80	<0.80	<0.80	<0.80
Vinyl Acetate		0.80	<0.80	<0.80	<0.80
Methyl Ethyl Ketone		0.80	<0.80	<0.80	<0.80
cis-1,2-Dichloroethylene		0.80	<0.80	<0.80	<0.80
Hexane		0.80	<0.80	<0.80	<0.80
Ethyl Acetate		0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc.
Site : MINNIE HOWARD SCHOOL

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received : 31-AUG-21 Login No. : L545484
Date Analyzed : 10-SEP-21 - 11-SEP-21 Units : ppbv
Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-7 MH-HALL 157	L545484-8 MH-164 CLASS	L545484-9 MH-MEDIA CENTER
Chloroform	0.80	<0.80	<0.80	<0.80
Tetrahydrofuran	0.80	<0.80	<0.80	<0.80
1,2-Dichloroethane	0.80	<0.80	<0.80	<0.80
1,1,1-Trichloroethane	0.80	<0.80	<0.80	<0.80
Benzene	0.80	<0.80	<0.80	<0.80
Carbon Tetrachloride	0.80	<0.80	<0.80	<0.80
Cyclohexane	0.80	<0.80	<0.80	<0.80
1,2-Dichloropropane	0.80	<0.80	<0.80	<0.80
Bromodichloromethane	0.80	<0.80	<0.80	<0.80
1,4-Dioxane	0.80	<0.80	<0.80	<0.80
Trichloroethylene	0.80	<0.80	<0.80	8.2
2,2,4-Trimethylpentane	0.80	<0.80	<0.80	<0.80
Methyl Methacrylate	0.80	<0.80	<0.80	<0.80
Heptane	0.80	<0.80	<0.80	<0.80
cis-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80
trans-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



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Date Analyzed : 10-SEP-21 - 11-SEP-21 Units : ppbv
Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-7 MH-HALL 157	L545484-8 MH-164 CLASS	L545484-9 MH-MEDIA CENTER
1,1,2-Trichloroethane	0.80	<0.80	<0.80	<0.80
Methyl Isobutyl Ketone	0.80	<0.80	<0.80	<0.80
Toluene	0.80	<0.80	<0.80	3.4
Methyl Butyl Ketone	0.80	<0.80	<0.80	<0.80
Dibromochloromethane	0.80	<0.80	<0.80	<0.80
1,2-Dibromoethane	0.80	<0.80	<0.80	<0.80
Tetrachloroethylene	0.80	<0.80	<0.80	<0.80
Chlorobenzene	0.80	<0.80	<0.80	<0.80
Ethylbenzene	0.80	<0.80	<0.80	<0.80
m & p-Xylene	1.6	<1.6	<1.6	<1.6
Bromoform	0.80	<0.80	<0.80	<0.80
Styrene	0.80	<0.80	<0.80	<0.80
1,1,2,2-Tetrachloroethan	0.80	<0.80	<0.80	<0.80
o-Xylene	0.80	<0.80	<0.80	<0.80
Nonane	0.80	<0.80	1.7	<0.80
Cumene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



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Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-7 MH-HALL 157	L545484-8 MH-164 CLASS	L545484-9 MH-MEDIA CENTER
2-Chlorotoluene	0.80	<0.80	<0.80	<0.80
n-Propylbenzene	0.80	<0.80	<0.80	<0.80
4-Ethyltoluene	0.80	<0.80	<0.80	<0.80
1,3,5-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
1,2,4-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
Benzyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,4-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,2-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
Naphthalene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
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Supervisor: BLD
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Date Received : 31-AUG-21 Login No. : L545484
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Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-10 MH-AUDITORIUM	L545484-11 MH-114 CLASS	L545484-12 MH-115 CLASS
Propylene	5.0	<5.0	<5.0	<5.0
Freon-12	0.80	<0.80	<0.80	<0.80
Chloromethane	0.80	<0.80	<0.80	<0.80
Freon-114	0.80	<0.80	<0.80	<0.80
Vinyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Butadiene	0.80	<0.80	<0.80	<0.80
n-Butane	0.80	1.0	2.4	1.2
Bromomethane	0.80	<0.80	<0.80	<0.80
Chloroethane	0.80	<0.80	<0.80	<0.80
Acetonitrile	5.0	<5.0	<5.0	<5.0
Vinyl Bromide	0.80	<0.80	<0.80	<0.80
Acrolein	0.80	<0.80	<0.80	<0.80
Acetone	5.0	6.6	6.2	6.2
Freon-11	0.80	<0.80	<0.80	<0.80
Isopropyl Alcohol	5.0	<5.0	<5.0	7.2
Acrylonitrile	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
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Galson ID: Client ID:	LOQ ppbv	L545484-10 MH-AUDITORIUM	L545484-11 MH-114 CLASS	L545484-12 MH-115 CLASS
Pentane	0.80	1.7	1.2	1.3
Ethyl Bromide	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethene	0.80	<0.80	<0.80	<0.80
tert-Butyl Alcohol	5.0	<5.0	<5.0	<5.0
Methylene Chloride	0.80	<0.80	<0.80	<0.80
Freon-113	0.80	<0.80	<0.80	<0.80
Carbon Disulfide	5.0	<5.0	<5.0	<5.0
Allyl Chloride	0.80	<0.80	<0.80	<0.80
trans-1,2-Dichloroethene	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethane	0.80	<0.80	<0.80	<0.80
Methyl tert-Butyl Ether	0.80	<0.80	<0.80	<0.80
Vinyl Acetate	0.80	<0.80	<0.80	<0.80
Methyl Ethyl Ketone	0.80	<0.80	<0.80	1.7
cis-1,2-Dichloroethylene	0.80	<0.80	<0.80	<0.80
Hexane	0.80	<0.80	<0.80	<0.80
Ethyl Acetate	0.80	<0.80	<0.80	1.5

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



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Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-10 MH-AUDITORIUM	L545484-11 MH-114 CLASS	L545484-12 MH-115 CLASS
Chloroform	0.80	<0.80	<0.80	<0.80
Tetrahydrofuran	0.80	<0.80	<0.80	<0.80
1,2-Dichloroethane	0.80	<0.80	<0.80	<0.80
1,1,1-Trichloroethane	0.80	<0.80	<0.80	<0.80
Benzene	0.80	<0.80	<0.80	<0.80
Carbon Tetrachloride	0.80	<0.80	<0.80	<0.80
Cyclohexane	0.80	<0.80	<0.80	<0.80
1,2-Dichloropropane	0.80	<0.80	<0.80	<0.80
Bromodichloromethane	0.80	<0.80	<0.80	<0.80
1,4-Dioxane	0.80	<0.80	<0.80	<0.80
Trichloroethylene	0.80	<0.80	<0.80	<0.80
2,2,4-Trimethylpentane	0.80	<0.80	<0.80	<0.80
Methyl Methacrylate	0.80	22	<0.80	<0.80
Heptane	0.80	<0.80	<0.80	<0.80
cis-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80
trans-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
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Galson ID: Client ID:	LOQ ppbv	L545484-10 MH-AUDITORIUM	L545484-11 MH-114 CLASS	L545484-12 MH-115 CLASS
1,1,2-Trichloroethane	0.80	<0.80	<0.80	<0.80
Methyl Isobutyl Ketone	0.80	<0.80	<0.80	<0.80
Toluene	0.80	<0.80	<0.80	<0.80
Methyl Butyl Ketone	0.80	<0.80	<0.80	<0.80
Dibromochloromethane	0.80	<0.80	<0.80	<0.80
1,2-Dibromoethane	0.80	<0.80	<0.80	<0.80
Tetrachloroethylene	0.80	<0.80	<0.80	<0.80
Chlorobenzene	0.80	<0.80	<0.80	<0.80
Ethylbenzene	0.80	<0.80	<0.80	<0.80
m & p-Xylene	1.6	<1.6	<1.6	<1.6
Bromoform	0.80	<0.80	<0.80	<0.80
Styrene	0.80	<0.80	<0.80	<0.80
1,1,2,2-Tetrachloroethan	0.80	<0.80	<0.80	<0.80
o-Xylene	0.80	<0.80	<0.80	<0.80
Nonane	0.80	<0.80	<0.80	<0.80
Cumene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



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Galson ID: Client ID:	LOQ ppbv	L545484-10 MH-AUDITORIUM	L545484-11 MH-114 CLASS	L545484-12 MH-115 CLASS
2-Chlorotoluene	0.80	<0.80	<0.80	<0.80
n-Propylbenzene	0.80	<0.80	<0.80	<0.80
4-Ethyltoluene	0.80	<0.80	<0.80	<0.80
1,3,5-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
1,2,4-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
Benzyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,4-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,2-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
Naphthalene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
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Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-13 MH-142 CLASS	L545484-14 MH-149 CLASS	L545484-15 MH-COURTYARD
Propylene	5.0	<5.0	<5.0	<5.0
Freon-12	0.80	<0.80	<0.80	<0.80
Chloromethane	0.80	<0.80	<0.80	<0.80
Freon-114	0.80	<0.80	<0.80	<0.80
Vinyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Butadiene	0.80	<0.80	<0.80	<0.80
n-Butane	0.80	1.2	0.90	4.3
Bromomethane	0.80	<0.80	<0.80	<0.80
Chloroethane	0.80	<0.80	<0.80	<0.80
Acetonitrile	5.0	<5.0	<5.0	<5.0
Vinyl Bromide	0.80	<0.80	<0.80	<0.80
Acrolein	0.80	<0.80	<0.80	<0.80
Acetone	5.0	6.6	8.3	6.2
Freon-11	0.80	<0.80	<0.80	<0.80
Isopropyl Alcohol	5.0	5.8	<5.0	8.2
Acrylonitrile	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



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Galson ID: Client ID:	LOQ ppbv	L545484-13 MH-142 CLASS	L545484-14 MH-149 CLASS	L545484-15 MH-COURTYARD
Pentane	0.80	1.2	<0.80	1.3
Ethyl Bromide	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethene	0.80	<0.80	<0.80	<0.80
tert-Butyl Alcohol	5.0	<5.0	<5.0	<5.0
Methylene Chloride	0.80	<0.80	<0.80	<0.80
Freon-113	0.80	<0.80	<0.80	<0.80
Carbon Disulfide	5.0	<5.0	<5.0	<5.0
Allyl Chloride	0.80	<0.80	<0.80	<0.80
trans-1,2-Dichloroethene	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethane	0.80	<0.80	<0.80	<0.80
Methyl tert-Butyl Ether	0.80	<0.80	<0.80	<0.80
Vinyl Acetate	0.80	<0.80	<0.80	<0.80
Methyl Ethyl Ketone	0.80	<0.80	<0.80	0.90
cis-1,2-Dichloroethylene	0.80	<0.80	<0.80	<0.80
Hexane	0.80	<0.80	<0.80	<0.80
Ethyl Acetate	0.80	1.0	<0.80	1.0

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



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Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-13 MH-142 CLASS	L545484-14 MH-149 CLASS	L545484-15 MH-COURTYARD
Chloroform	0.80	<0.80	<0.80	<0.80
Tetrahydrofuran	0.80	<0.80	<0.80	<0.80
1,2-Dichloroethane	0.80	<0.80	<0.80	<0.80
1,1,1-Trichloroethane	0.80	<0.80	<0.80	<0.80
Benzene	0.80	<0.80	<0.80	<0.80
Carbon Tetrachloride	0.80	<0.80	<0.80	<0.80
Cyclohexane	0.80	<0.80	<0.80	<0.80
1,2-Dichloropropane	0.80	<0.80	<0.80	<0.80
Bromodichloromethane	0.80	<0.80	<0.80	<0.80
1,4-Dioxane	0.80	<0.80	<0.80	<0.80
Trichloroethylene	0.80	<0.80	<0.80	<0.80
2,2,4-Trimethylpentane	0.80	<0.80	<0.80	<0.80
Methyl Methacrylate	0.80	<0.80	<0.80	<0.80
Heptane	0.80	<0.80	<0.80	<0.80
cis-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80
trans-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
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Date : 13-SEP-21



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Date Sampled : 19-AUG-21 Account No.: 15354
Date Received : 31-AUG-21 Login No. : L545484
Date Analyzed : 10-SEP-21 - 11-SEP-21 Units : ppbv
Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-13 MH-142 CLASS	L545484-14 MH-149 CLASS	L545484-15 MH-COURTYARD
1,1,2-Trichloroethane	0.80	<0.80	<0.80	<0.80
Methyl Isobutyl Ketone	0.80	<0.80	<0.80	<0.80
Toluene	0.80	<0.80	<0.80	1.5
Methyl Butyl Ketone	0.80	<0.80	<0.80	<0.80
Dibromochloromethane	0.80	<0.80	<0.80	<0.80
1,2-Dibromoethane	0.80	<0.80	<0.80	<0.80
Tetrachloroethylene	0.80	<0.80	<0.80	<0.80
Chlorobenzene	0.80	<0.80	<0.80	<0.80
Ethylbenzene	0.80	<0.80	<0.80	<0.80
m & p-Xylene	1.6	<1.6	<1.6	<1.6
Bromoform	0.80	<0.80	<0.80	<0.80
Styrene	0.80	<0.80	<0.80	<0.80
1,1,2,2-Tetrachloroethan	0.80	<0.80	<0.80	<0.80
o-Xylene	0.80	<0.80	<0.80	<0.80
Nonane	0.80	<0.80	<0.80	<0.80
Cumene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc.
Site : MINNIE HOWARD SCHOOL

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received : 31-AUG-21 Login No. : L545484
Date Analyzed : 10-SEP-21 - 11-SEP-21 Units : ppbv
Report ID : 1264450

Galson ID: Client ID:	LOQ ppbv	L545484-13 MH-142 CLASS	L545484-14 MH-149 CLASS	L545484-15 MH-COURTYARD
2-Chlorotoluene	0.80	<0.80	<0.80	<0.80
n-Propylbenzene	0.80	<0.80	<0.80	<0.80
4-Ethyltoluene	0.80	<0.80	<0.80	<0.80
1,3,5-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
1,2,4-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
Benzyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,4-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,2-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
Naphthalene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 13-SEP-21



GALSON

LABORATORY FOOTNOTE REPORT

Client Name : Phase Separation Science, Inc.
Site : MINNIE HOWARD SCHOOL

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

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received: 31-AUG-21 Login No. : L545484
Date Analyzed: 10-SEP-21 - 11-SEP-21

L545484 (Report ID: 1264450):

NYSDOH does not offer a certification for the following compounds:
Propylene, Ethyl Acetate, Tetrahydrofuran, Methyl n-Butyl Ketone, 4-Ethyl Toluene, n-Butane,
Pentane, Ethyl Bromide, Nonane, and n-Propylbenzene.
SOPs: in-vocs(40)

L545484-5,11 (Report ID: 1264450):

Sample canister was received at/near ambient pressure.

L545484-1 (Report ID: 1264450):

Due to a pressure differential issue, there may be low-level contamination in the sample due to potential crossover with a standard. Any results below 2.0 ppbv may be biased high.

L545484 (Report ID: 1264450):

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
1,1,2,2-Tetrachloroethane	+/-13.1%	102%
1,1,2-Trichloroethane	+/-10.9%	101%
1,1-Dichloroethane	+/-13.1%	99.7%
1,1-Dichloroethene	+/-13.5%	102%
1,2,4-Trimethylbenzene	+/-14.6%	108%
1,2-Dibromoethane	+/-12.9%	103%
1,2-Dichlorobenzene	+/-12.2%	105%
1,2-Dichloroethane	+/-14.9%	102%
1,2-Dichloropropane	+/-13.1%	99.7%
1,3,5-Trimethylbenzene	+/-13.1%	105%
1,3-Dichlorobenzene	+/-12.3%	104%
1,4-Dichlorobenzene	+/-13.6%	104%
2,2,4-Trimethylpentane	+/-13.9%	102%
2-Chlorotoluene	+/-13.1%	105%
4-Ethyltoluene	+/-14%	106%
Acrolein	+/-17.1%	100%
Acrylonitrile	+/-16.9%	100%
Allyl Chloride	+/-16.4%	101%
Acetonitrile	+/-17.4%	100%
Acetone	+/-15.4%	102%
Bromodichloromethane	+/-11.3%	103%
Bromoform	+/-14.1%	107%
1,3-Butadiene	+/-17.1%	100%



GALSON

LABORATORY FOOTNOTE REPORT

Client Name : Phase Separation Science, Inc.
Site : MINNIE HOWARD SCHOOL

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

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received: 31-AUG-21 Login No. : L545484
Date Analyzed: 10-SEP-21 - 11-SEP-21

n-Butane	+/-18.7%	98%
Benzene	+/-11.6%	100%
Benzyl Chloride	+/-15.6%	113%
Carbon Disulfide	+/-12.7%	99.7%
Carbon Tetrachloride	+/-13.4%	104%
cis-1,2-Dichloroethylene	+/-13.7%	101%
cis-1,3-Dichloropropene	+/-13.2%	104%
Chlorobenzene	+/-12.4%	100%
Dibromochloromethane	+/-12.9%	105%
Chloroform	+/-11.8%	100%
Cumene	+/-13.1%	104%
Cyclohexane	+/-14.5%	101%
1,4-Dioxane	+/-13.3%	104%
Ethyl Acetate	+/-16.2%	102%
Ethylbenzene	+/-14%	104%
Chloroethane	+/-19.3%	99.3%
Ethyl Bromide	+/-11.2%	100%
Freon-11	+/-16.7%	103%
Freon-113	+/-11.3%	99.9%
Freon-114	+/-14.3%	102%
Freon-12	+/-14.8%	104%
Heptane	+/-16.2%	102%
Isopropyl Alcohol	+/-15.4%	103%
1,1,1-Trichloroethane	+/-13.1%	103%
Bromomethane	+/-12.7%	99.2%
Chloromethane	+/-17.5%	98.6%
Methylene Chloride	+/-12.3%	97.6%
Methyl Ethyl Ketone	+/-15.9%	101%
Methyl Methacrylate	+/-15.2%	104%
Methyl Isobutyl Ketone	+/-18.1%	103%
Methyl Butyl Ketone	+/-18.8%	107%
m & p-Xylene	+/-13.2%	103%
Methyl tert-Butyl Ether	+/-14.6%	102%
Naphthalene	+/-20.2%	111%
Hexane	+/-15.2%	100%
Nonane	+/-17.9%	104%
n-Propylbenzene	+/-12.6%	105%
o-Xylene	+/-13.2%	104%
Propylene	+/-16.8%	101%
Pentane	+/-18.7%	99.1%
Styrene	+/-14.8%	106%
Trichloroethylene	+/-11.1%	102%
tert-Butyl Alcohol	+/-16.4%	104%
Tetrachloroethylene	+/-12%	102%
Tetrahydrofuran	+/-18.7%	102%



GALSON

LABORATORY FOOTNOTE REPORT

Client Name : Phase Separation Science, Inc.
Site : MINNIE HOWARD SCHOOL

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

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received: 31-AUG-21 Login No. : L545484
Date Analyzed: 10-SEP-21 - 11-SEP-21

Toluene	+/-14.3%	102%
trans-1,2-Dichloroethene	+/-13.8%	101%
trans-1,3-Dichloropropene	+/-13.7%	106%
Vinyl Acetate	+/-17.1%	102%
Vinyl Bromide	+/-14.5%	102%
Vinyl Chloride	+/-15.2%	100%

21082718

1Z2313E40164925623
Date: 08/31/21
Shipper: UPS
Initials: BGF
Prep: UNKNOWN

New Client? Report To*: Phase Separation Science
6630 Baltimore National Pike
Baltimore, MD 21228

Client Account No.*: _____

Phone No.*: 410-747-8770
Cell No.: _____

Email Results to: Amber Confer
Email address: reporting@phaseonline.com

Invoice To*: Phase Separation Science

Phone No.: 410-747-8770
Email: invoicing@phaseonline.com
P.O. No.: _____

Credit Card: Card on File Call for Credit Card Info.

1Z2313E40166463431
Date: 08/31/21
Shipper: UPS
Initials: BGF
Prep: UNKNOWN

Tan
Cart

LS45484

Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program

Need Results By: (surcharge)

<input checked="" type="checkbox"/> Standard	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
<input type="checkbox"/> Next Day by 6pm	100%
<input type="checkbox"/> Next Day by Noon	150%
<input type="checkbox"/> Same Day	200%

Site Name: Minnie Howard School Project: _____ Sampled by: _____

Comments: _____

List description of industry or Process/interferences present in sampling area: _____

State samples were collected in (e.g., NY): VA

Please indicate which OEL this data will be used for:
 OSHA PEL ACGIH TLV Cal OSHA
 MSHA Other (specify): _____

Sample Identification* (Maximum of 20 Characters)	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.)*
MH-Cafe	08/19/21	Canister	1.4	L	VOC	TO-15 list	
MH-Hallway 19	08/19/21	Canister	1.4	L	VOC	TO-15 list	
MH-27 Class	08/19/21	Canister	1.4	L	VOC	TO-15 list	
MH-Gym	08/19/21	Canister	1.4	L	VOC	TO-15 list	
MH-216	08/19/21	Canister	1.4	L	VOC	TO-15 list	
MH-209	08/19/21	Canister	1.4	L	VOC	TO-15 list	
MH-Hall 157	08/19/21	Canister	1.4	L	VOC	TO-15 list	
MH-164 Class	08/19/21	Canister	1.4	L	VOC	TO-15 list	
MH-Media Center	08/19/21	Canister	1.4	L	VOC	TO-15 list	
MH-Auditorium	08/19/21	Canister	1.4	L	VOC	TO-15 list	
MH-114 Class	08/19/21	Canister	1.4	L	VOC	TO-15 list	

^Galson 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)*: _____

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by:				Received by: Brett Grenert-Fischer	8/17/21	11:50
Relinquished by:				Received by: Brett Grenert-Fischer	8/17/21	

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 1 of 2

21082718



New Client?

Report To* : Phase Separation Science
6630 Baltimore National Pike
Baltimore, MD 21228

Invoice To* : Phase Separation Science

Client Account No.*: _____

6601 Kirkville Rd
East Syracuse, NY 13057
Tel: (315) 432-5227
888-432-LABS (5227)

Phone No.* : 410-747-8770

Phone No.: 410-747-8770

Cell No. : _____

Email : invoicing@phaseonline.com

Email Results to : Amber Confer

P.O. No. : _____

www.sgsgalson.com

Email address: reporting@phaseonline.com

Credit Card : Card on File Call for Credit Card Info.

Samples submitted using the FreePumpLoan™ Program

Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
<input checked="" type="checkbox"/> Standard	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
<input type="checkbox"/> Next Day by 6pm	100%
<input type="checkbox"/> Next Day by Noon	150%
<input type="checkbox"/> Same Day	200%

Site Name : Minnie Howard School Project : _____ Sampled by : _____

Comments : _____

List description of industry or Process/interferences present in sampling area : _____
State samples were collected in (e.g., NY) : VA
Please indicate which OEL this data will be used for :
 OSHA PEL ACGIH TLV Cal OSHA
 MSHA Other (specify): _____

Sample Identification* (Maximum of 20 Characters)	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.)*
MH-115 Class	08/19/21	Canister	1.4	L	VOC	TO-15 list	
MH-142 Class	08/19/21	Canister	1.4	L	VOC	TO-15 list	
MH-149 Class	08/19/21	Canister	1.4	L	VOC	TO-15 list	
MH-Courtyard	08/19/21	Canister	1.4	L	VOC	TO-15 list	
		Canister	1.4	L	VOC	TO-15 list	
		Canister	1.4	L	VOC	TO-15 list	
		Canister	1.4	L	VOC	TO-15 list	
		Canister	1.4	L	VOC	TO-15 list	
		Canister	1.4	L	VOC	TO-15 list	
		Canister	1.4	L	VOC	TO-15 list	
		Canister	1.4	L	VOC	TO-15 list	

^Galson 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)* : _____

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by :				Received by : Brett Grenert-Fischer <i>Brett Grenert-Fischer</i>	8/17/21	1150
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.



Chain of Custody Form for Subcontracted Analyses

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

W.O. No. : 21082718
Project Location : Minnie Howard School
Project Number : 4920002
Report To LOD : No

Samples Transferred To:
SGS-North America - NY
6601 Kirkville Road
East Syracuse, NY 13057
Old SGS Galson Labs. bsc
Phone : 315-432-5227

For Questions or issues please contact: Amber Confer

Report Due On :09/08/21 05:00

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21082718-001	MH-Cafe	08/19/21	17:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-002	MH-Hallway 19	08/19/21	17:05	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-003	MH-27 Class	08/19/21	17:12	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-004	MH-Gym	08/19/21	17:15	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-005	MH-216	08/19/21	17:23	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-006	MH-209	08/19/21	17:25	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-007	MH-Hall 157	08/19/21	17:28	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-008	MH-164 Class	08/19/21	17:31	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-009	MH-Media Center	08/19/21	17:31	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-010	MH-Auditorium	08/19/21	17:37	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-011	MH-114 Class	08/19/21	17:39	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-012	MH-115 Class	08/19/21	17:40	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-013	MH-142 Class	08/19/21	17:47	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-014	MH-149 Class	08/19/21	17:50	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21082718-015	MH-Courtyard	08/19/21	17:55	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON

Data Deliverables Required: COA

Perform Q.C. on Sample : _____

Send Report Attn : reporting@phaseonline.com

Send Invoice Attn : invoicing@phaseonline.com

Airbill No.: _____ Carrier : UPS (in 2 boxes)

Condition Upon Receipt : _____

Comments :

Samples Relinquished By : ALW Date : 8/30/21 Time : _____ Samples Received By : Brett Grenert-Fischer Brett Grenert-Fischer 8/31/21

Samples Relinquished By : _____ Date : _____ Time : _____ Samples Received By : _____

Samples Relinquished By : _____ Date : _____ Time : _____ Report Reference:1 Generated:13-SEP-21 15:26

Case Narrative

Project Name: ACPS IAQ Testing

PSS Project No.: 21082718

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:

Soil gas/indoor air not indicated on COC; samples are indoor air.

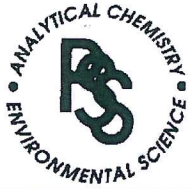
Incoming pressures not documented; incoming pressures will be documented at the sublab.

Stop date not documented on COC; flow controllers set for 8 hours. Stop date of 8/19/21 used.

21082718: 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.

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



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

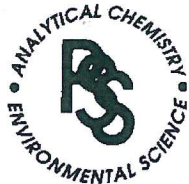
PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com

email: info@phaseonline.com

1 *CLIENT: Total Environmental Concepts, Inc. *OFFICE LOC.: Lorton						PSS Work Order #: 21082718				PAGE <u>1</u> OF <u>2</u>				
*PROJECT MGR: Karl Ford						3 * (3) 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	REMARKS		
EMAIL: kford@teci.pro *PHONE NO.: (703) 567-4346														
*PROJECT NAME: ACPS IAQ testing PROJECT NO.: 4920002														
SITE LOCATION: Minnie Howard School P.O. NO.:														
SAMPLER(S):														
2	LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)								
	1	MH-CAFE	8/19/21	9:00		1700	01397	06406	30+	3.5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2	MH-Hallway 19	8/19/21	9:05		1705	1391	07452	30+	8.5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	3	MH-27 Class	8/19/21	9:12		1712	1412	04619	30+	4.5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	4	MH-Gym	8/19/21	9:15		1715	00439	07507	30	6.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	5	MH-216	8/19/21	9:21		1723	226	04223	28	0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	6	MH-209	8/19/21	9:23		1725	1520	11462	30+	9	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	7	MH-Hall 157	8/19/21	9:28		1728	1486	10740	30	5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	8	MH-164 Class	8/19/21	9:31		1731	1364	07486	30	5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	9	MH-Media Center	8/19/21	9:33		1731	1324	04278	30+	6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	10	MH-Auditorium	8/19/21	9:36		1737	1494	WR419	30+	5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Relinquished By: (1)		Date	Time	Received By:		4 *Requested TAT (One TAT per COC) <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other				Shipping Carrier:			
	<i>[Signature]</i>		8/19/21	1000	<i>[Signature]</i>		Data Deliverables Required:				Client			
	Relinquished By: (2)		Date	Time	Received By:		Special Instructions:							
	<i>Derrick Johnson</i>		8/27/21	1:57	<i>[Signature]</i>									
	Relinquished By: (3)		Date	Time	Received By:									
	Relinquished By: (4)		Date	Time	Received By:									

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement 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. * = REQUIRED



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com

email: info@phaseonline.com

1 *CLIENT: Total Environmental Concepts, Inc. *OFFICE LOC.: Lorton *PROJECT MGR: Karl Ford EMAIL: kford@teci.pro *PHONE NO.: (703) 567-4346 *PROJECT NAME: ACPS IAQ testing PROJECT NO.: 4920002 SITE LOCATION: Minnie Howard School P.O. NO.: SAMPLER(S):						PSS Work Order #: 21082718				PAGE 2 OF 2					
						3 * 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	REMARKS
2	LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)									
	11	MH-114 Class	8/19/21	9:38	8/19/21	17:39	1517	04200	30+	4	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	12	MH-115 Class	8/19/21	9:40	8/19/21	17:40	321	11485	30+	7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	13	MH-142 Class	8/19/21	9:45	8/19/21	17:47	1430	07450	30+	8.5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	14	MH-149 Class	8/19/21	9:50	8/19/21	17:50	1461	06724	30+	5.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	15	MH-Courtyard	8/19/21	9:55	8/19/21	17:55	WA434	06073	30+	7.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Relinquished By: (1) Date: 8/19/21 Time: 10:00 Received By:						4 *Requested TAT (One TAT per COC) <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other				Shipping Carrier: Client					
Relinquished By: (2) Date: 8/27/21 Time: 1:58 Received By:						Data Deliverables Required:									
Relinquished By: (3) _____ Date: _____ Time: _____ Received By: _____						Special Instructions:									
Relinquished By: (4) _____ Date: _____ Time: _____ Received By: _____															

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
 The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement 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. * = REQUIRED

Sample Receipt Checklist

Project Name: ACPS IAQ Testing
 PSS Project No.: 21082718

Client Name	Total Environmental Concepts - Lortc	Received By	Amber Confer
Disposal Date	10/01/2021	Date Received	08/27/2021 01:57:00 PM
		Delivered By	Client
		Tracking No	Not Applicable
		Logged In By	Amber Confer

Shipping Container(s)

No. of Coolers 0

Custody Seal(s) Intact? N/A
 Seal(s) Signed / Dated? N/A

Ice N/A
 Temp (deg C)
 Temp Blank Present No

Documentation

COC agrees with sample labels? Yes
 Chain of Custody Yes

Sampler Name Not Provided
N/A

Sample Container

Appropriate for Specified Analysis? Yes
 Intact? Yes
 Labeled and Labels Legible? Yes

Custody Seal(s) Intact? Not Applicable
 Seal(s) Signed / Dated Not Applicable

Holding Time

All Samples Received Within Holding Time(s)? Yes

Total No. of Samples Received 15
 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

Sample Receipt Checklist

Project Name: ACPS IAQ Testing
 PSS Project No.: 21082718

Client Name	Total Environmental Concepts - Lortc	Received By	Amber Confer
Disposal Date	10/01/2021	Date Received	08/27/2021 01:57:00 PM
		Delivered By	Client
		Tracking No	Not Applicable
		Logged In By	Amber Confer

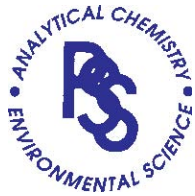
Comments: (Any "No" response must be detailed in the comments section below.)

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.

Soil gas/indoor air not indicated on COC; samples are indoor air.
 Incoming pressures not documented; incoming pressures will be documented at the sublab.
 Stop date not documented on COC; flow controllers set for 8 hours. Stop date of 8/19/21 used.

Samples Inspected/Checklist Completed By: Amber Confer Date: 08/30/2021
 Amber Confer

PM Review and Approval: Lynn Jackson Date: 08/30/2021
 Lynn Jackson



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com
email: info@phaseonline.com

1 *CLIENT: _____ *OFFICE LOC.: _____						PSS Work Order #: _____				PAGE _____ OF _____				
*PROJECT MGR: _____						3 * 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				REMARKS				
EMAIL: _____			*PHONE NO: (_____) _____											
*PROJECT NAME: _____			PROJECT NO.: _____											
SITE LOCATION: _____			P.O. NO.: _____											
SAMPLER(S): _____														
2	LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)								
5	Relinquished By: (1)	Date	Time	Received By:		4 *Requested TAT (One TAT per COC) <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other						Shipping Carrier:		
	Relinquished By: (2)	Date	Time	Received By:		Data Deliverables Required:								
	Relinquished By: (3)	Date	Time	Received By:		Special Instructions:								
	Relinquished By: (4)	Date	Time	Received By:										

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement 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. * = REQUIRED

Appendix D: Formaldehyde Analytical Results

Appendix E: 4-PCH Analytical Results

Project Name: ACPS IAQ Testing
PSS Project No.: 21082536

September 3, 2021

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



Reference: PSS Project No: **21082536**
Project Name: ACPS IAQ Testing
Project Location: Minnie Howard
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) **21082536**.

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

Project Name: ACPS IAQ Testing
 PSS Project No.: 21082536

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
21082536-001	MH- Cafeteria	AIR	08/18/21 00:00
21082536-002	MH- Hall 109	AIR	08/18/21 00:00
21082536-003	MH- Gym	AIR	08/18/21 00:00
21082536-004	MH- Class 027	AIR	08/18/21 00:00
21082536-005	MH- Class 114	AIR	08/18/21 00:00
21082536-006	MH- Class 115	AIR	08/18/21 00:00
21082536-007	MH- Reception	AIR	08/18/21 00:00
21082536-008	MH- Class 142	AIR	08/18/21 00:00
21082536-009	MH- Class 149	AIR	08/18/21 00:00
21082536-010	MH- Class 164	AIR	08/18/21 00:00
21082536-011	MH- Media Center	AIR	08/18/21 00:00
21082536-012	MH- Auditorium	AIR	08/18/21 00:00
21082536-013	MH- Hall 157	AIR	08/18/21 00:00
21082536-014	MH- 216	AIR	08/18/21 00:00
21082536-015	MH- Class 209	AIR	08/18/21 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 contaminants, and part 141.3, for the secondary drinking water contaminants.
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

Project Name: ACPS IAQ Testing

PSS Project No.: 21082536

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.
- J 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



GALSON

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

September 03, 2021

Account# 15354

Login# L545212

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

Enclosure(s)

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.sgs.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.sgs.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 Regulation	Lab ID: 1042	Mold Analysis Laboratory license

Legend

< - Less than	mg - Milligrams	MDL - Method Detection Limit	ppb - Parts per Billion
> - Greater than	ug - Micrograms	NA - Not Applicable	ppm - Parts per Million
l - 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



GALSON

LABORATORY ANALYSIS REPORT

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

Client : Phase Separation Science, Inc. Account No.: 15354
 Site : MINNIE HOWARD Login No. : L545212
 Project No. : ACPS IAQ TESTING-4920002
 Date Sampled : 18-AUG-21 Date Analyzed : 01-SEP-21 - 02-SEP-21
 Date Received : 27-AUG-21 Report ID : 1263237

4-Phenylcyclohexene (4PCH low LOQ)

Sample ID	Lab ID	Air Vol liter	Front ug	Back ug	Total ug	Conc ug/m3	ppm
MH-CAFETERIA	L545212-1	48	<0.2	<0.2	<0.2	<0.004	<0.0007
MH-HALL 019	L545212-2	53.6	<0.2	<0.2	<0.2	<0.004	<0.0006
MH-GYM	L545212-3	54.8	<0.2	<0.2	<0.2	<0.004	<0.0006
MH-CLASS 027	L545212-4	55.8	<0.2	<0.2	<0.2	<0.004	<0.0006
MH-CLASS 114	L545212-5	48	<0.2	<0.2	<0.2	<0.004	<0.0007
MH- CLASS 115	L545212-6	48.6	<0.2	<0.2	<0.2	<0.004	<0.0007
MH-RECEPTION	L545212-7	48.2	<0.2	<0.2	<0.2	<0.004	<0.0007
MH-CLASS 142	L545212-8	51.2	<0.2	<0.2	<0.2	<0.004	<0.0006
MH-CLASS 149	L545212-9	52.4	<0.2	<0.2	<0.2	<0.004	<0.0006
MH-CLASS 164	L545212-10	44.6	<0.2	<0.2	<0.2	<0.005	<0.0007
MH-MEDIA CENTER	L545212-11	48.6	<0.2	<0.2	<0.2	<0.004	<0.0007
MH-AUDITORIUM	L545212-12	48	<0.2	<0.2	<0.2	<0.004	<0.0007
MH-HALL 157	L545212-13	50.4	<0.2	<0.2	<0.2	<0.004	<0.0006
MH-216	L545212-14	43.4	<0.2	<0.2	<0.2	<0.005	<0.0007
MH-CLASS 209	L545212-15	44.4	<0.2	<0.2	<0.2	<0.005	<0.0007

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

Level of Quantitation: 0.2 ug
 Analytical Method : mod. NIOSH 1501; GC/PID
 Collection Media : 226-01

Submitted by: BDK
 Date : 03-SEP-21
 Supervisor : KAG

Approved by: MLN



GALSON

LABORATORY FOOTNOTE REPORT

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

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

Date Sampled : 18-AUG-21 Account No.: 15354
Date Received: 27-AUG-21 Login No. : L545212
Date Analyzed: 01-SEP-21 - 02-SEP-21

L545212 (Report ID: 1263237):

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

L545212 (Report ID: 1263237):

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%

L545212

210 8253p



New Client?

Report To* : Phase Separation Science

Invoice To* : Phase Separation Science

1Z2313E40166972748

Date: 08/27/21

Shipper: UPS

Initials: MAK



Prep: UNKNOWN

Account No.*:

6630 Baltimore National Pike

Baltimore, MD 21228

Phone No.* : 410-747-8770

Cell No. :

Email Results to: Amber Confer

Email address: reporting@phaseonline.com

Phone No.: 410-747-8770

Email: invoicing@phaseonline.com

P.O. No.:

Credit Card: Card on File Call for Credit Card Info.

Samples submitted using the FreePumpLoan™ Program

Samples submitted using the FreeSamplingBadges™ Program

9

Need Results By (surcharge)

- Standard 0%
- 4 Business Days 35%
- 3 Business Days 50%
- 2 Business Days 75%
- Next Day by 6pm 100%
- Next Day by Noon 150%
- Same Day 200%

Site Name: Minnie Howard Project: ACPS IAQ testing - 4920002 Sampled by:

Comments:

List description of industry or Process/interferences present in sampling area:

Public grade school

State samples were collected in (e.g., NY)

VA

Please indicate which OEL this data will be used for:

- OSHA PEL ACGIH TLV Cal OSHA
- MSHA Other (specify):

Sample Identification* (Maximum of 20 Characters)	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.)*
MH - Cafeteria	08/18/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Hall 019	08/18/21	Sm Charcoal tubes / 226-01	53.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Gym	08/18/21	Sm Charcoal tubes / 226-01	54.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Class 027	08/18/21	Sm Charcoal tubes / 226-01	55.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Class 114	08/18/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Class 115	08/18/21	Sm Charcoal tubes / 226-01	48.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Reception	08/18/21	Sm Charcoal tubes / 226-01	48.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Class 142	08/18/21	Sm Charcoal tubes / 226-01	51.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Class 149	08/18/21	Sm Charcoal tubes / 226-01	52.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Class 164	08/18/21	Sm Charcoal tubes / 226-01	44.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Library Media Center	08/18/21	Sm Charcoal tubes / 226-01	48.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	

*Galson 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)*:

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by:	Client	8/25/21	1735	Received by:		
Relinquished by:	AMT COM			Received by:	Michelle Krause	8/27/21 11:17

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 ___

21082530



New Client? Report To* : Phase Separation Science
 6630 Baltimore National Pike
 Baltimore, MD 21228
 Client Account No.*: _____
 Phone No.* : 410-747-8770
 Cell No. : _____
 Email Results to : Amber Confer
 Email address: reporting@phaseonline.com

Invoice To* : Phase Separation Science

 Phone No.: 410-747-8770
 Email : invoicing@phaseonline.com
 P.O. No. : _____
 Credit Card : Card on File Call for Credit Card Info.

6601 Kirkville Rd
 East Syracuse, NY 13057
 Tel: (315) 432-5227
 888-432-LABS (5227)
 www.sgsgalson.com

Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
<input checked="" type="checkbox"/> Standard	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
<input type="checkbox"/> Next Day by 6pm	100%
<input type="checkbox"/> Next Day by Noon	150%
<input type="checkbox"/> Same Day	200%

Site Name : Minnie Howard Project : ACPS IAQ testing - 4920002 Sampled by : _____

Comments : _____

List description of industry or Process/interferences present in sampling area :
Public grade school
 State samples were collected in (e.g., NY) : VA
 Please indicate which OEL this data will be used for :
 OSHA PEL ACGIH TLV Cal OSHA
 MSHA Other (specify): _____

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units* L, ml, min, in, 2, cm, 2, ft, 2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
MH - Auditorium	08/18/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Hall 157	08/18/21	Sm Charcoal tubes / 226-01	50.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - 216	08/18/21	Sm Charcoal tubes / 226-01	43.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
*MH - Class 2019 on 8/27/21	08/18/21	Sm Charcoal tubes / 226-01	44.4	L	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	
		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	
		Sm Charcoal tubes / 226-01			4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01			4-Phenylcyclohexene	mod. NIOSH 1501	

*Galson 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)* : _____

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by :	<u>Client</u>	<u>8/25/21</u>	<u>1735</u>	Received by :	<u>Adrian T. Long</u>	
Relinquished by :	<u>Adrian T. Long</u>			Received by :	<u>Michelle Krause</u>	<u>8/27/21 1617</u>

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 ___



Chain of Custody Form for Subcontracted Analyses

9

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

W.O. No. : 21082536
Project Location : Samuel Tucker Elementary Minnie Howard
Project Number : 4920002 028726/21
Report To LOD : No

Samples Transferred To:
SGS North America - NY
6601 Kirkville Road
East Syracuse, NY 13057
Old SGS Galson Labs. bsc
Phone : 315-432-5227

For Questions or issues please contact: Amber Confer

Report Due On : 09/03/21 05:00

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21082536-001	MH- Cafeteria	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-002	MH- Hall 109	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-003	MH- Gym	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-004	MH- Class 027	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-005	MH- Class 114	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-006	MH- Class 115	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-007	MH- Reception	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-008	MH- Class 142	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-009	MH- Class 149	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-010	MH- Class 164	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-011	MH- Media Center	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-012	MH- Auditorium	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-013	MH- Hall 157	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-014	MH- 216	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082536-015	MH- Class 209	08/18/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON

Data Deliverables Required: COA

Perform Q.C. on Sample : _____

Send Report Attn : reporting@phaseonline.com

Send Invoice Attn : invoicing@phaseonline.com

Airbill No.: _____ Carrier : UPS

Condition Upon Receipt : _____

Comments :

Samples Relinquished By : Amber Confer Date : _____ Time : _____ Samples Received By : _____

Samples Relinquished By : _____ Date : _____ Time : _____ Samples Received By : _____

Samples Relinquished By : _____ Date : _____ Time : _____ Samples Received By : _____

8/27/21 11:17

Case Narrative

Project Name: ACPS IAQ Testing

PSS Project No.: 21082536

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 Class 209. Per client, logged in as 209.

21082536: 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.

210 82536



New Client? Report To*: Phase Separation Science
 6630 Baltimore National Pike
 Client Account No.*: Baltimore, MD 21228
 Phone No.*: 410-747-8770
 Cell No.:
 Email Results to: Amber Confer
 Email address: reporting@phaseonline.com

Invoice To*: Phase Separation Science
 Phone No.: 410-747-8770
 Email: invoicing@phaseonline.com
 P.O. No.:
 Credit Card: Card on File Call for Credit Card Info.

6601 Kirkville Rd
 East Syracuse, NY 13057
 Tel: (315) 432-5227
 888-432-LABS (5227)

www.sgsgalson.com

Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)	Site Name:	Project:		Sampled by:
<input checked="" type="checkbox"/> Standard	0%	Minnie Howard	ACPS IAQ testing - 4920002		
<input type="checkbox"/> 4 Business Days	35%	Comments:			
<input type="checkbox"/> 3 Business Days	50%				
<input type="checkbox"/> 2 Business Days	75%				
<input type="checkbox"/> Next Day by 6pm	100%	List description of industry or Process/interferences present in sampling area:	State samples were collected in (e.g., NY)	Please indicate which OEL this data will be used for:	
<input type="checkbox"/> Next Day by Noon	150%	Public grade school	VA	<input checked="" type="checkbox"/> OSHA PEL <input type="checkbox"/> ACGIH TLV <input type="checkbox"/> Cal OSHA <input type="checkbox"/> MSHA <input type="checkbox"/> Other (specify):	
<input type="checkbox"/> Same Day	200%				

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml, min, in, 2, cm, ft, 2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
MH - Cafeteria	08/18/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Hall 019	08/18/21	Sm Charcoal tubes / 226-01	53.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Gym	08/18/21	Sm Charcoal tubes / 226-01	54.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Class 027	08/18/21	Sm Charcoal tubes / 226-01	55.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Class 114	08/18/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Class 115	08/18/21	Sm Charcoal tubes / 226-01	48.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Reception	08/18/21	Sm Charcoal tubes / 226-01	48.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Class 142	08/18/21	Sm Charcoal tubes / 226-01	51.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Class 149	08/18/21	Sm Charcoal tubes / 226-01	52.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Class 164	08/18/21	Sm Charcoal tubes / 226-01	44.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Library Media Center	08/18/21	Sm Charcoal tubes / 226-01	48.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	

^Galson 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)*:

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by:	Client	8/25/21	1735	Received by:		
Relinquished by:	Amber Confer			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.

21082530



New Client? Report To* : Phase Separation Science
 6630 Baltimore National Pike
 Baltimore, MD 21228
 Client Account No.*: _____
 Phone No.* : 410-747-8770
 Cell No. : _____
 Email Results to : Amber Confer
 Email address: reporting@phaseonline.com

Invoice To* : Phase Separation Science

 Phone No.: 410-747-8770
 Email : invoicing@phaseonline.com
 P.O. No. : _____
 Credit Card : Card on File Call for Credit Card Info.

6601 Kirkville Rd
 East Syracuse, NY 13057
 Tel: (315) 432-5227
 888-432-LABS (5227)
 www.sgsgalson.com

Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)		
<input checked="" type="checkbox"/> Standard	0%	Site Name : <u>Minnie Howard</u>	Project : ACPS IAQ testing - 4920002
<input type="checkbox"/> 4 Business Days	35%	Comments :	
<input type="checkbox"/> 3 Business Days	50%		
<input type="checkbox"/> 2 Business Days	75%		
<input type="checkbox"/> Next Day by 6pm	100%	List description of industry or Process/interferences present in sampling area :	State samples were collected in (e.g., NY)
<input type="checkbox"/> Next Day by Noon	150%	Public grade school	VA
<input type="checkbox"/> Same Day	200%	Please indicate which OEL this data will be used for :	
		<input checked="" type="checkbox"/> OSHA PEL <input type="checkbox"/> ACGIH TLV <input type="checkbox"/> Cal OSHA <input type="checkbox"/> MSHA <input type="checkbox"/> Other (specify):	

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in,2,cm,2,ft	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
MH - Auditorium	08/18/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Hall 157	08/18/21	Sm Charcoal tubes / 226-01	50.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - 216	08/18/21	Sm Charcoal tubes / 226-01	43.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
MH - Class 2079 on 8/24/21	08/18/21	Sm Charcoal tubes / 226-01	44.4	L	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	
		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	
		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	

^Galson 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)* :

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by :	<u>Client</u>	<u>8/25/21</u>	<u>1735</u>	Received by :	<u>Amber Confer</u>	
Relinquished by :	<u>Amber Confer</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 ___

Sample Receipt Checklist

Project Name: ACPS IAQ Testing

PSS Project No.: 21082536

Client Name	Total Environmental Concepts - Lortc	Received By	Amber Confer
Disposal Date	09/29/2021	Date Received	08/25/2021 05:35:00 PM
		Delivered By	Client
		Tracking No	Not Applicable
		Logged In By	Amber Confer

Shipping Container(s)

No. of Coolers 0

Custody Seal(s) Intact? N/A
 Seal(s) Signed / Dated? N/A

Ice N/A
 Temp (deg C)
 Temp Blank Present No

Documentation

COC agrees with sample labels? No
 Chain of Custody Yes

Sampler Name Not Provided
N/A

Sample Container

Appropriate for Specified Analysis? Yes
 Intact? Yes
 Labeled and Labels Legible? Yes

Custody Seal(s) Intact? Not Applicable
 Seal(s) Signed / Dated Not Applicable

Holding Time

All Samples Received Within Holding Time(s)? Yes

Total No. of Samples Received 15
 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.)

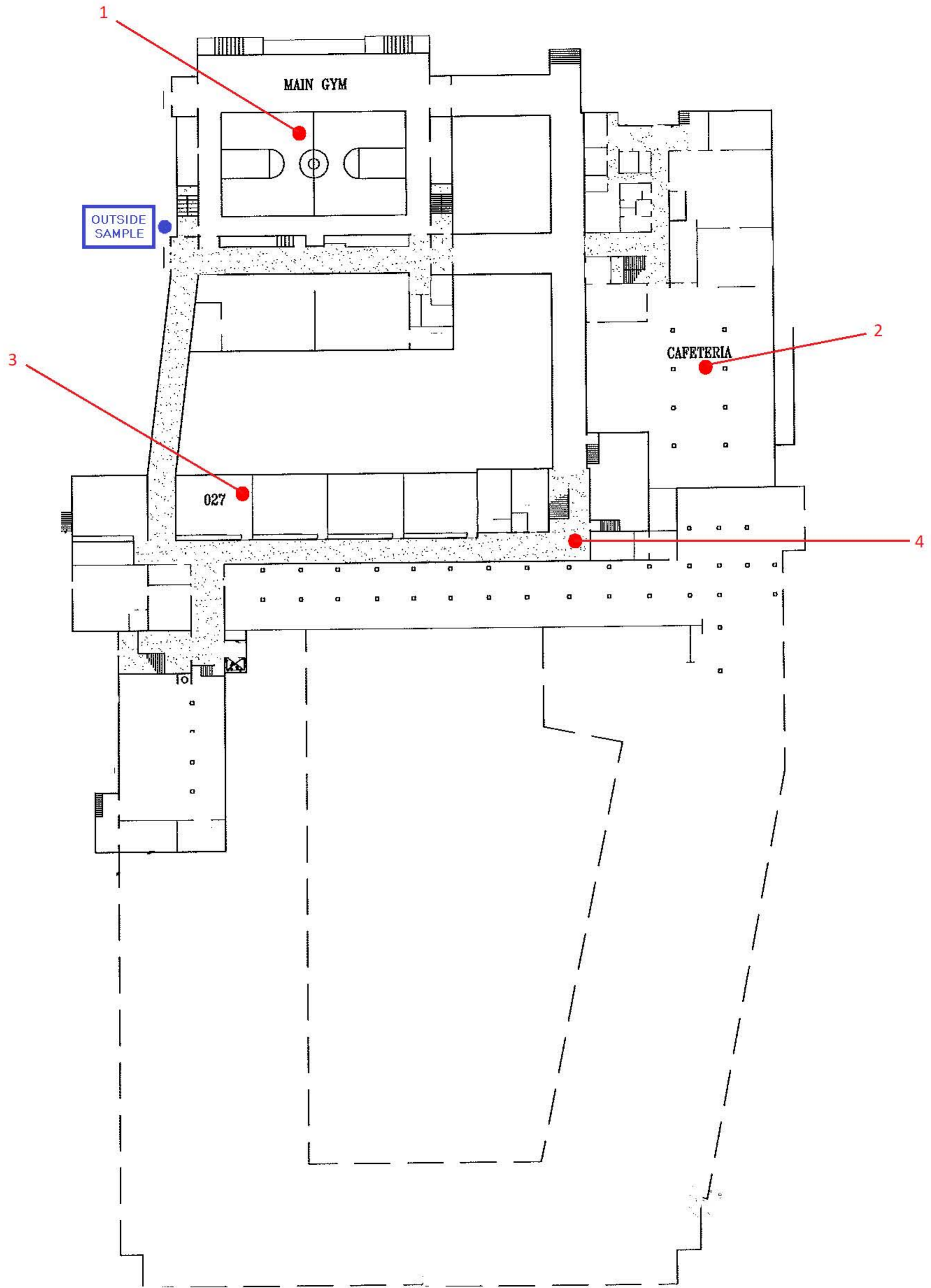
For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the 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.

Container label for COC sample 015 reads Class 209. Per client, logged in as 209.

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

PM Review and Approval: Lynn Jackson Date: 08/26/2021

Appendix F: Sampling Locations



LEGEND

- Sample Location Analyzed For:
- Mold
- Radon
- VOC's (TO+15)
- 4-polycyclohexene
- Formaldehyde

MINNIE HOWARD SCHOOL

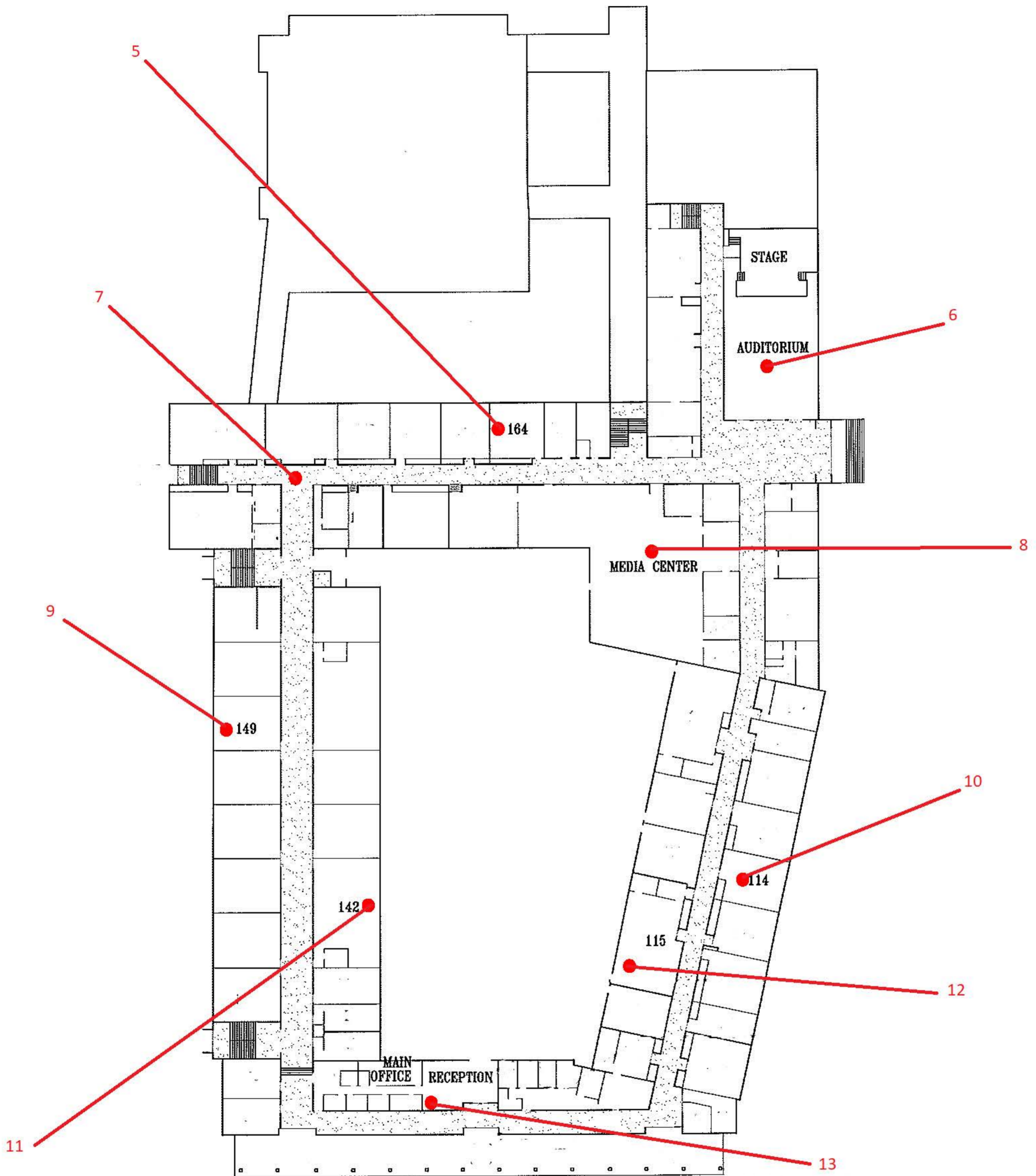
3801 West Braddock Rd.
Alexandria, Va 22302

LOWER LEVEL
PLAN



6382 Terminal Road, Suite B
Lorton, VA 22079
Phone: 703-567-4346
Fax: 703-567-3487

Figure
1



LEGEND

- Sample Location Analyzed For:
- Mold 4-polycyclohexene
- Radon Formaldehyde
- VOC's (TO+15)

MINNIE HOWARD SCHOOL

3801 West Braddock Rd.
Alexandria, Va 22302

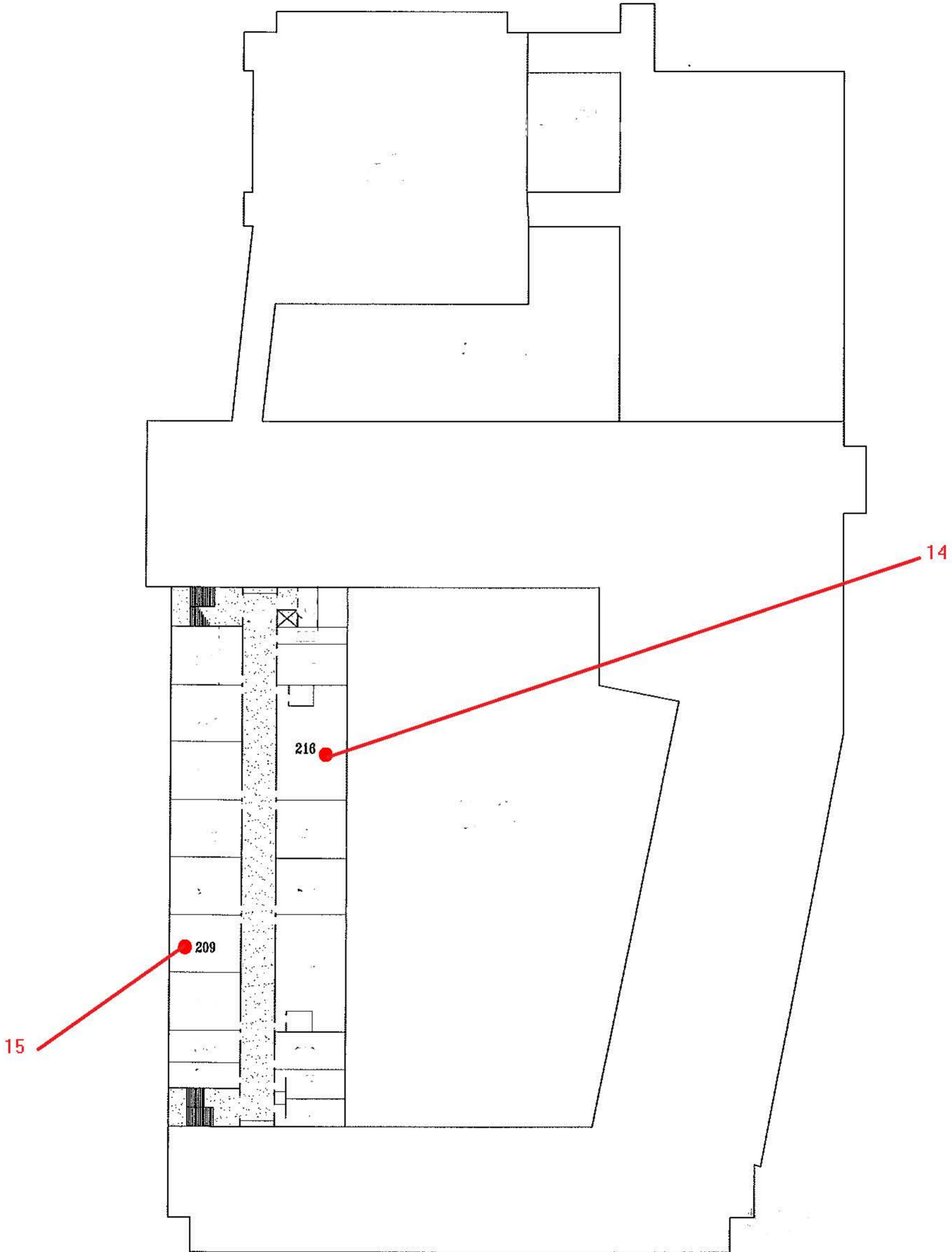
1ST FLOOR PLAN



Total Environmental Concepts, Inc.

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

Figure
2



LEGEND

- Sample Location Analyzed For:
- Mold
- Radon
- VOC's (TO+15)
- 4-polycyclohexene
- Formaldehyde

MINNIE HOWARD SCHOOL

3801 West Braddock Rd.
Alexandria, Va 22302

2ND FLOOR PLAN



Total Environmental Concepts, Inc.

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

Appendix G: Photographs



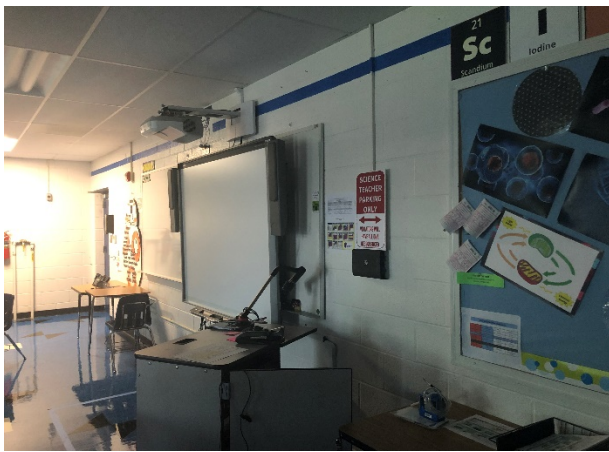
Minnie Howard, Media Center



Minnie Howard, Cafeteria



Minnie Howard, Auditorium



Minnie Howard, Classroom



Minnie Howard, Gym



Minnie Howard, Hallway