Total Environmental Concepts, Inc.
Setting the Standard in Comprehensive Environmental Solutions

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Learning to Live • Loving to Learn
ACPS
Alexandria City Public Schools

Indoor Air Quality Assessment Report

at

John Adams Elementary School

5651 Rayburn Ave,
Alexandria, VA 22311

Report Prepared for:

John Contreras

Alexandria City Public Schools

2601 Cameron Mills Rd, Alexandria, VA 22302

Dated: October 7, 2021

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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 assessed last.The original list included:

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

This IAQ assessment was conducted at John Adams Elementary School on Thursday, August 19, 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 a 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. ACPS required that TEC test for the following major indoor air pollutants:

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

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:

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

  Findings:

  The number of spores in the air were within acceptable ranges in all locations as compared to background outside air mold spore counts. Photographs can be found in Section 3, Visual Observations.

  Recommendations:

- Moving forward, any suspected mold growth should be inspected by qualified professional.
- Investigate sources of water leaks and any evidence of water staining.
- Inspect above drop ceilings and replace stained ceiling tiles.
- Inspect areas around the building foundation.
- For all HVAC and associated building systems, a detailed schedule of maintenance should be established and adhered to.

  None of the results from the fifteen sampling locations at John Adams Elementary School were indicative of mold issues.

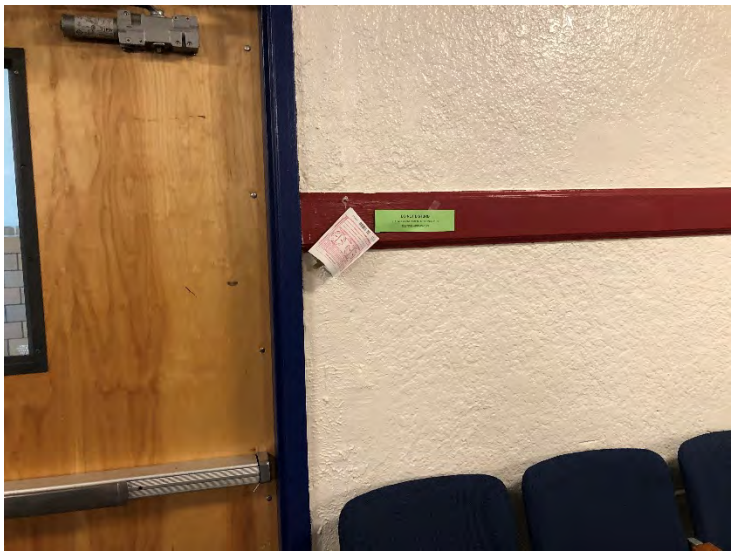
- **Radon** – levels recorded in all locations were less than 4pCi/L, as recommended by EPA and HUD.
- **VOCs** – The levels of volitile organic compounds (VOCs) recorded at each location were within acceptable ranges, when compared to EPA Regional Screening Levels (RSLs).
- **4-PCH** – levels recorded during this investigation were within the LEED (Leadership of Energy and Environmental Design) IAQ guideline of 6.5 ug/m3.
- **Formaldehyde** – the levels of formaldehyde recorded at each location were within an acceptable range, compared to EPA Regional Screening Level (RSLs) of 1ug/m3.
- **Carbon monoxide** – concentrations in all areas were less than the EPA and ASHRAE recommended limit of 9 ppm.
- **Carbon dioxide** – concentrations in all tested spaces were less than the ASHRAE limit of 1,092 ppm.
- **RH** – the relative humidity in all tested spaces was within the ASHRAE guidelines of ≤ 67%, and for the purposes of this investigation ≤ 65%. None of the tested locations had a relative humidity greater than 65%.
- **Temperature** – none of the tested spaces had a temperatures greater than the ASHRAE recommended summer range of 75°F-80.5°F.
-

2. Assesment Methods

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 19, 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. Monitorss were collected after 4 hours and processed for shipment to Phase Separation Science located in Catonsville, MD. Formaldehyde analytical results can be found in Appendix D.

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

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

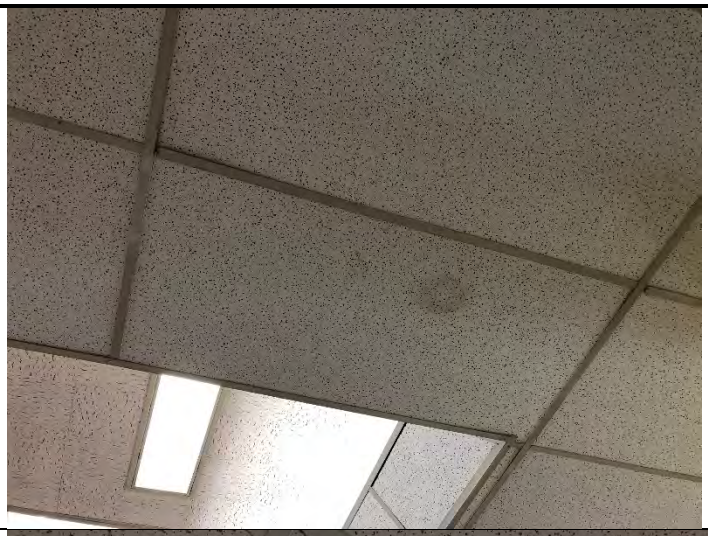
The temperature and relative humidity were taken with the AcuRite Digital Indoor Temperature and Humidity Monitor in the lobby of each school. Teperature and relative humidity readings can be found in Section 5 Mold Sampling Results, below.

Real-time measurements for oxygen, carbon dioxide, carbon monoxide, VOC, hydrogen sulfides were taken with multi-gas detector. These measurements can be found in Section 10 Multi-gas

Detector (MSA Altair Multi-gas) Readings. This information can be found in Table 1 below.

3. Visual Observations

Sample Location	August 19, 2021	Visual Observations
Library	Water staining observed in the library.	

Library	View of water staining observed in the library.	
Hall 214	Water staining observed in the second floor hallway of John Adams Elementary School.	
Hall 214	View of water staining observed in the second floor hallway of John Adams Elementary School.	

Gym	Construction activity observed in the gym of John Adams Elementary School.	

4. Conditions for Human Occupancy

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

4.1 Temperature

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

4.2 Relative Humidity

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

4.3 Carbon Dioxide

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

4.4 Carbon Monoxide

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

4.5 Multi-gas Detector Readings

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

5. Mold Sampling Results

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

The number of spores in the air was within acceptable ranges in all locations compared to background outside air mold spore counts.

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

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

There will 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.

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

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

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

Findings:

The number of spores in the air were within acceptable ranges in all locations as compared to background outside air mold spore counts. Photographs can be found in Section 3, Visual Observations.

Recommendations:

- Moving forward, any suspected mold growth should be inspected by a qualified professional.
- Investigate sources of water leaks and any evidence of water staining.
- Inspect above drop ceilings and replace stained ceiling tiles.
- Inspect areas around the building foundation.
- For all HVAC and associated building systems, a detailed schedule of maintenance should be established and adhered to.

None of the results from the fifteen sampling locations at John Adams Elementary School were indicative of mold issues.

Mold analytical results can be found in Appendix A.

6. Radon Gas Sampling Results

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

7. Formaldehyde Gas Sampling Results

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

8. TO+15 (VOC) Sampling Results

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

9. 4-PCH Sampling Results

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

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

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

Table 1

Multi-Gas Detector Readings				
Location	VOC	CO	OXYGEN	H2S
Gym	0.1	0.0	20.9	0.0
125	0.0	0.0	20.9	0.0
140	0.0	0.0	20.3	0.0
147	0.0	0.0	20.1	0.0
Hall 148	0.0	0.0	20.9	0.0
Cafeteria	0.0	0.0	20.3	0.0
164	0.0	0.0	20.9	0.0
Lobby	0.0	0.0	20.9	0.0
116	0.0	0.0	20.9	0.0
109	0.3	0.0	20.5	0.0
Library	0.0	0.0	20.6	0.0
202	0.0	0.0	20.7	0.0
222	0.0	0.0	20.9	0.0
Hall 213	0.0	0.0	20.9	0.0
157	0.0	0.0	20.9	0.0

Table 2

Results of Analytes by Location						
Location	Radon	Mold		TO+15 VOCs	4PCH	Formaldehyde
		AVG: 77 F	AVG: 61 %			
Gym	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
125	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
140	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
147	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hall 148	< 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
164	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Lobby	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
116	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
109	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Library	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
202	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
222	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hall 213	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
157	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL

*****See Section 5 - Ratio abnormalities are most likely caused by fluctuations in daily spore counts*

11. Quality Control Program

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

Appendix A: Mold Analytical Results

HAYES MICROBIAL CONSULTING

#21039545

Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road
Suite B
Lorton, VA 22079

Phone: **(571) 289-2173**

John Adams ES

Collected: **October 4, 2021**
Received: **October 6, 2021**
Reported: **October 6, 2021**

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 16 samples by FedEx in good condition for this project on October 6th, 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

Gary Lewis
Total Environmental Concepts, Inc.
8382 Terminal Road Suite B
Lorton, VA 22079
(571) 289-2173

John Adams ES

#21039545

Spore Trap
SOP - HMC#101

Sample Number	1	JAA318807		2	JAA318801		3	JAA318795		4	JA4318796	
Sample Name	JA - Outdoor			JA - Lobby			JA - Office 157			JA - Class 164		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m³			13 spores/m³			13 spores/m³			13 spores/m³		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	**Raw Count**	**Count / m³**	**% of Total**	**Raw Count**	**Count / m³**	**% of Total**	**Raw Count**	**Count / m³**	**% of Total**	**Raw Count**	**Count / m³**	**% of Total**
Alternaria												
Ascospores	36	480	43.4%	15	200	17.0%	11	147	73.3%	2	27	66.7%
Aspergillus|Penicillium	2	27	2.4%									
Basidiospores	13	173	15.7%	8	107	9.1%	3	40	20.0%	1	13	33.3%
Bipolaris|Drechslera	3	40	3.6%									
Chaetomium												
Cladosporium	25	333	30.1%	60	800	68.2%	1	13	6.7%			
Curvularia				1	13	1.1%						
Epicoccum				1	13	1.1%						
Fusarium												
Memnoniella												
Myxomycetes	2	27	2.4%	1	13	1.1%						
Pithomyces	1	13	1.2%	2	27	2.3%						
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Polythrincium	1	13	1.2%									
Total	83	1106	100%	88	1173	100%	15	200	100%	3	40	100%

Water Damage Indicator | Common Allergen | Slightly Higher than Baseline | Significantly Higher than Baseline | Ratio Abnormality

Collected: **Oct 4, 2021** Received: **Oct 6, 2021** Reported: **Oct 6, 2021**

Project Analyst: Ramesh Poluri, PhD P. Ramesh Date: **10 - 06 - 2021**

Reviewed By: Steve Hayes, BSMT Stephen N. Hayes Date: **10 - 06 - 2021**

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John Adams ES

#21039545

Spore Trap
SOP - HMC#101

Sample Number	5	JA4318802		6	JA4318800		7	JA4318809		8	JA4318790	
Sample Name	JA - Class 109			JA - Class 116			JA - Class 125			JA - Gym		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m³			13 spores/m³			13 spores/m³			13 spores/m³		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	**Raw Count**	**Count / m³**	**% of Total**	**Raw Count**	**Count / m³**	**% of Total**	**Raw Count**	**Count / m³**	**% of Total**	**Raw Count**	**Count / m³**	**% of Total**
Alternaria												
Ascospores	2	27	100.0%	2	27	25.0%	1	13	20.0%	3	40	100.0%
Aspergillus|Penicillium							4	53	80.0%			
Basidiospores												
Bipolaris|Drechslera												
Chaetomium												
Cladosporium												
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes				5	67	62.5%						
Pithomyces				1	13	12.5%						
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Polythrincium												
Total	2	27	100%	8	107	100%	5	66	100%	3	40	100%

Water Damage Indicator | Common Allergen | Slightly Higher than Baseline | Significantly Higher than Baseline | Ratio Abnormality

Collected: **Oct 4, 2021** Received: **Oct 6, 2021** Reported: **Oct 6, 2021**

Project Analyst: Ramesh Poluri, PhD P. Ramesh Date: **10 - 06 - 2021**

Reviewed By: Steve Hayes, BSMT Stephen N. Hayes Date: **10 - 06 - 2021**

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John Adams ES

#21039545

Spore Trap
SOP - HMC#101

Sample Number	9	JA4318810		10	JA4318811		11	JA4315119		12	JA4318805	
Sample Name	JA - Class 190			JA - Class 147			JA - Cafe			JA - Hall 148-156		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m³			13 spores/m³			13 spores/m³			13 spores/m³		
Background	2			2			2			2		
Fragments	ND			ND			ND			13/m³		
Organism	**Raw Count**	**Count / m³**	**% of Total**	**Raw Count**	**Count / m³**	**% of Total**	**Raw Count**	**Count / m³**	**% of Total**	**Raw Count**	**Count / m³**	**% of Total**
Alternaria												
Ascospores	1	13	100.0%	1	13	20.0%	2	27	28.6%	2	27	66.7%
Aspergillus|Penicillium				3	40	60.0%	5	67	71.4%			
Basidiospores												
Bipolaris|Drechslera												
Chaetomium												
Cladosporium										1	13	33.3%
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes				1	13	20.0%						
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Polythrincium												
Total	1	13	100%	5	66	100%	7	94	100%	3	40	100%

Water Damage Indicator | Common Allergen | Slightly Higher than Baseline | Significantly Higher than Baseline | Ratio Abnormality

Collected: **Oct 4, 2021** Received: **Oct 6, 2021** Reported: **Oct 6, 2021**

Project Analyst: Ramesh Poluri, PhD P. Ramesh Date: **10 - 06 - 2021**

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John Adams ES

#21039545

Spore Trap
SOP - HMC#101

Sample Number	13	JA4318799		14	JA		15	JA4318791		16	JA4318797	
Sample Name	JA - Media Center			JA - Class 202			JA - Hall 213-216			JA - Class 222		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m³			13 spores/m³			13 spores/m³			13 spores/m³		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	**Raw Count**	**Count / m³**	**% of Total**	**Raw Count**	**Count / m³**	**% of Total**	**Raw Count**	**Count / m³**	**% of Total**	**Raw Count**	**Count / m³**	**% of Total**
Alternaria												
Ascospores	1	13	33.3%	3	40	60.0%	3	40	25.0%	1	13	100.0%
Aspergillus|Penicillium												
Basidiospores	1	13	33.3%	1	13	20.0%	1	13	8.3%			
Bipolaris|Drechslera												
Chaetomium												
Cladosporium							7	93	58.3%			
Curvularia							1	13	8.3%			
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes	1	13	33.3%									
Pithomyces				1	13	20.0%						
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Polythrincium												
Total	3	39	100%	5	66	100%	12	159	100%	1	13	100%

Water Damage Indicator | Common Allergen | Slightly Higher than Baseline | Significantly Higher than Baseline | Ratio Abnormality

Collected: **Oct 4, 2021** Received: **Oct 6, 2021** Reported: **Oct 6, 2021**

Project Analyst: Ramesh Poluri, PhD P. Ramesh Date: **10 - 06 - 2021**

Reviewed By: Steve Hayes, BSMT Stephen N. Hayes Date: **10 - 06 - 2021**

HAYES MICROBIAL CONSULTING
3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112 (804) 562-3435 contact@hayesmicrobial.com

Gary Lewis
Total Environmental Concepts, Inc.
8382 Terminal Road Suite B
Lorton, VA 22079
(571) 289-2173

John Adams ES

#21039545

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	The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows: **NBD:** No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD) **1 :** <5% of field occluded. No spores will be uncountable. **2 :** 5-25% of field occluded. **3 :** 25-75% of field occluded. **4 :** 75-90% of field occluded. **5 :** >90% of field occluded. Suggested recollection of sample.
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.
Control Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments.
Water Damage Indicator Common Allergen Slightly Higher than Baseline Significantly Higher than Baseline Ratio Abnormality	**Blue:** These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem. **Green:** Although all molds are potential allergens, these are the most common allergens that may be found indoors. **Orange:** The spore count is slightly higher than the outside count and may or may not indicate a source of contamination. **Red:** The spore count is significantly higher than the baseline count and probably indicates a source of contamination. **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.

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John Adams ES

#21039545

Organism Descriptions

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.

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 desseminated infection, primarily in the immunocompromised.

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John Adams ES

#21039545

Organism Descriptions

Epicoccum

Habitat: It is found in soil and plant litter and is a plant pathogen. It can grow indoors on a variety of substrates, including paper and textiles and is commonly found on wet drywall.

Effects: It is a common allergen. No cases of infection have been reported in humans.

Myxomycetes

Habitat: Found on decaying plant material and as a plant pathogen.

Effects: Some allergenic properties reported, but generally pose no health concerns to humans.

Pithomyces

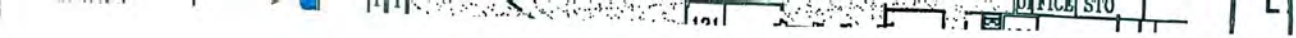
Habitat: Common fungus isolated from soil, decaying plant material. Rarely found indoors.

Effects: Allergenic properties are poorly studied. No cases of infection in humans.

Polythrincium

Habitat: Found in soil and occasionally on plants.

Effects: No known health effects. Allergenic properties are poorly studied.



John Adams ES

Total Environmental Concepts, Inc.

Placement Tech	Victoria P	Sample Type	mold
Placement Date	8/17/2021	Email	Kford@tci.pro
Address			

Sample #	Location/ room	Flow Rate	Sampling Time	Pump Start Time	Pump End Time	Comments
JA 4315279	JA gym			833	841	
JA 4315286	JA 125			819	856	
JA 4315280	JA 140			903	911	
JA 4315272	JA 147			918	926	
JA 4315269	JA hallway 149 cafeteria			931	938	replacing tile floor
JA 4315278	JA 164			953	10	
JA 4315271	JA 157			1003	1010	
JA 4315270	JA lobby			943	950	
JA 4315282	JA 109			1035	1042	
JA 4315284	JA 116			1016	1023	
JA 4315275	JA 222			944	951	
JA 4315276	JA hallway 214			957	1004	
JA 4315288	JA 202			1008	1015	
JA 4315283	JA library			1020	1027	
JA 4315277	JA cafeteria			1054	1101	

Appendix B: Radon Analytical Results

Kit #: 9723712 Result: 1.2 ± 0.3 pCi/l
Location: 157 Room

Ja
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 10:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 101 hours 13.8% 70°F

Kit #: 9723713 Result: 0.9 ± 0.3 pCi/l
Location: Cafeteria

Ja
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 10:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 101 hours 16.7% 70°F

Kit #: 9723705 Result: 2.2 ± 0.3 pCi/l
Location: 164 Room

Ja
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 10:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 101 hours 13.4% 70°F

Kit #: 9723706 Result: 0.9 ± 0.3 pCi/l
Location: 105 Room

Ja
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 10:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 101 hours 14.8% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723805 Result: 0.9 ± 0.3 pCi/l
Location:
Ja 147
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 10:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 101 hours 17.6% 70°F

Kit #: 9723807 Result: 1.2 ± 0.3 pCi/l
Location:
Ja lobby
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 10:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 101 hours 14.5% 70°F

Kit #: 9723808 Result: 1.4 ± 0.3 pCi/l
Location:
Ja 125
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 9:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 102 hours 17.2% 70°F

Kit #: 9723809 Result: 1.6 ± 0.3 pCi/l
Location:
Ja 140
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 11:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 100 hours 18.9% 70°F

Kit #: 9723811 Result: < 0.3 pCi/l
Location:
Ja Gym B
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 9:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 102 hours 6.1% 70°F

Kit #: 9723812 Result: 0.8 ± 0.3 pCi/l
Location:
Ja Cafe 2
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 10:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 101 hours 16.7% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723813 Result: 1.2 ± 0.3 pCi/l
Location:
Ja hall 149 courtyard
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 10:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 101 hours 13.0% 70°F

Kit #: 9723814 Result: 1.1 ± 0.3 pCi/l
Location:
Ja Gym 1
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 9:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 102 hours 14.3% 70°F

Kit #: 9723815 Result: 0.8 ± 0.3 pCi/l
Location:
Ja media center 1
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 11:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 100 hours 12.9% 70°F

Kit #: 9723818 Result: < 0.3 pCi/l
Location:
Ja 202
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 11:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 100 hours 20.0% 70°F

Kit #: 9723819 Result: 1.0 ± 0.3 pCi/l
Location:
Ja Gym D
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 9:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 102 hours 16.1% 70°F

Kit #: 9723820 Result: 0.8 ± 0.3 pCi/l
Location:
Ja media center 2
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 11:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 100 hours 12.8% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723821 Result: 0.9 ± 0.3 pCi/l
Location:
Ja 116
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 10:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 101 hours 12.9% 70°F

Kit #: 9723822 Result: 1.1 ± 0.3 pCi/l
Location:
Ja Gym 2
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 9:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 102 hours 15.5% 70°F

Kit #: 9723825 Result: 0.7 ± 0.3 pCi/l
Location:
Ja Hall 214
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 11:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 100 hours 14.1% 70°F

Kit #: 9723826 Result: 0.7 ± 0.3 pCi/l
Location:
Ja 222 D
,

Analysis Note :
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 11:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 100 hours 17.6% 70°F

Kit #: 9723828 Result: ????
Location:
Ja 222
,

Analysis Note : WI
Analyzed : 2021-08-25 at 10:00 am
Started : 2021-08-19 at 11:00 am
Ended : 2021-08-23 at 3:00 pm
Hours/MST% : 100 hours 22.3% 70°F

Kit #: 9723846 Result: ????
Location:
,

Analysis Note : MI
Analyzed : 2021-08-25 at 10:00 am
Started : 0000-00-00 at
Ended : 0000-00-00 at
Hours/MST% : 0 hours 5.2% 70°F

John Adams Elementary School

Total Environmental Concepts, Inc.

Placement Tech	Maggie + Channing	Sample Type	Radon	Pickup Tech	Maggie
Placement Date	8/19/21	Sample Media		Pickup Date	8/25/21
Address				Email	kford@teci.pro

Sample #	Location/ room	SQFT >2000	HVAC Y/N	Window Y/N	Fan Y/N	Time in	Time out	Comment
JA9723814	JA GYM-1		Y	N	N	9:30	3:10	
JA9723819D	JA GYMD		Y	N	N	9:30	3:11	
JA9723822	JA GYM-2		Y	N	N	9:30	3:11	
JA9723811B	JA GYMB		Y	N	N	9:30	3:12	
JA9723808	JA 125		Y	Y	N	9:37	3:05	
JA9723821	JA 116		Y	Y	N	9:48	3:20	
JA9723706	JA 109		Y	Y	N	9:58	3:26	
JA9723807	JA Lobby		Y	Y	N	10:02	3:00	
JA9723712	JA 157		Y	Y	N	10:07	3:00	
JA9723705	JA 164		Y	Y	N	10:21	3:22	
JA9723714	JA Cafetorium-1		Y	Y	N	10:33	3:25	
JA9723812	JA Cafetorium-2		Y	Y	N	10:33	3:26	
JA9723813	JA Hall 149 - courtyard		Y	Y	N	10:35	3:15	
JA9723805	JA 147		Y	Y	N	10:37	3:15	
JA9723809	JA 140		Y	Y	N	10:40	3:15	
JA9723815	JA media center-1		Y	Y	N	10:55	3:40	
JA9723820	JA media center-2		Y	Y	N	10:55	3:40	
JA9723818	JA 202		Y	Y	N	11:04	3:41	
JA9723825	JA Hall 214-216		Y	N	N	11:06	3:43	
JA9723828	JA 222		Y	Y	N	11:10	3:43	
JA9723826	JA222D		Y	Y	N	11:10	3:43	

Appendix C: VOCs (TO+15) Analytical Results

PHASE SEPARATION SCIENCE

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

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21082525

September 22, 2021

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

Reference: PSS Project No: **21082525**
Project Name: ACPS IAQ Testing
Project Location: John Adams ES
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)**21082525**. This report has been to report results in ug/m^3, per client. This report version includes revised sample results. This report cancels and supersedes report version 1.000 dated September 9, 2021.

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

PHASE SEPARATION SCIENCE

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

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21082525

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
21082525-001	JA-Gym	AIR	08/19/21 16:30
21082525-002	JA-140	AIR	08/19/21 16:34
21082525-003	JA-125	AIR	08/19/21 16:40
21082525-004	JA-116	AIR	08/19/21 16:45
21082525-005	JA-109	AIR	08/19/21 00:00
21082525-006	JA-157	AIR	08/19/21 16:51
21082525-007	JA-164	AIR	08/19/21 17:00
21082525-008	JA-Cafe	AIR	08/19/21 17:02
21082525-009	JA-Lobby	AIR	08/19/21 17:04
21082525-010	JA-147	AIR	08/19/21 17:08
21082525-011	JA-Library	AIR	08/19/21 17:16
21082525-012	JA-202	AIR	08/19/21 17:13
21082525-013	JA-Hall 213	AIR	08/19/21 17:19
21082525-014	JA-222	AIR	08/19/21 17:17
21082525-015	JA-Outdoor	AIR	08/19/21 17:23

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

Notes:

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

PHASE SEPARATION SCIENCE

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

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21082525

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

SGS GALSON

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

September 22, 2021

Account# 15354

Login# L545196

Dear Amber Confer:

Enclosed are the revised 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)

COMMENT ANNEX

Please note that this revision cancels and supersedes L545196 (report reference:1) dated September 22nd, 2021 issued by SGS Galson.

Per your request, the reporting units were updated to ug/m^3.

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.
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Analytical Disclaimers

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

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

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and 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

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc.
Site : NS
Project No. : CITY OF ALEXANDRIA
Date Sampled : 19-AUG-21
Date Received : 27-AUG-21

Account No.: 15354
Login No. : L545196
Date Analyzed : 08-SEP-21 - 09-SEP-21
Report ID : 1263530

TO15 List

Galson ID:			L545196-1		L545196-2		L545196-3	
Client ID:			JA-GYM		JA-140		JA-125	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	0.80	2.0	1.6	3.9	1.0	2.3
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	12	28	27	64	15	35

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

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TO15 List

Galson ID:			L545196-1		L545196-2		L545196-3	
Client ID:			JA-GYM		JA-140		JA-125	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	<5.0	<12	7.7	19	6.2	15
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	9.9	29	40	120	13	37
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2

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

Galson ID:			L545196-1		L545196-2		L545196-3	
Client ID:			JA-GYM		JA-140		JA-125	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Methyl Ethyl Ketone	0.80	2.4	0.80	2.4	1.6	4.8	1.5	4.3
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	1.5	5.3	0.90	3.2	1.1	3.9
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

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TO15 List

Galson ID:			L545196-1		L545196-2		L545196-3	
Client ID:			JA-GYM		JA-140		JA-125	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	1.1	4.1	2.6	9.7	1.5	5.8
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

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TO15 List

Galson ID:			L545196-1		L545196-2		L545196-3	
Client ID:			JA-GYM		JA-140		JA-125	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

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TO15 List

Galson ID:			L545196-1		L545196-2		L545196-3	
Client ID:			JA-GYM		JA-140		JA-125	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

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

Approved by : BLD
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TO15 List

Galson ID:			L545196-4		L545196-5		L545196-6	
Client ID:			JA-116		JA-109		JA-157	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<6.0	<10	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<1.0	<4.7	1.3	6.3
Chloromethane	0.80	1.7	0.90	1.8	<1.0	<2.0	1.4	2.9
Freon-114	0.80	5.6	<0.80	<5.6	<1.0	<6.7	0.80	5.9
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<1.0	<2.5	0.90	2.2
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<1.0	<2.1	0.90	2.1
n-Butane	0.80	1.9	0.90	2.1	2.0	4.8	6.1	15
Bromomethane	0.80	3.1	<0.80	<3.1	<1.0	<3.7	1.0	3.9
Chloroethane	0.80	2.1	<0.80	<2.1	<1.0	<2.5	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<6.0	<10	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<1.0	<4.2	0.90	3.8
Acrolein	0.80	1.8	<0.80	<1.8	<1.0	<2.2	1.1	2.6
Acetone	5.0	12	9.0	21	11	27	43	100

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

Galson ID:			L545196-4		L545196-5		L545196-6	
Client ID:			JA-116		JA-109		JA-157	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<1.0	<5.4	1.0	5.9
Isopropyl Alcohol	5.0	12	7.1	18	<6.0	<15	<5.0	<12
Acrylonitrile	0.80	1.7	<0.80	<1.7	<1.0	<2.1	0.80	1.8
Pentane	0.80	2.4	1.8	5.5	2.3	6.9	3.1	9.2
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<1.0	<4.3	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<1.0	<3.8	0.80	3.3
tert-Butyl Alcohol	5.0	15	<5.0	<15	<6.0	<18	<5.0	<15
Methylene Chloride	0.80	2.8	<0.80	<2.8	<1.0	<3.3	1.0	3.6
Freon-113	0.80	6.1	<0.80	<6.1	<1.0	<7.4	0.90	7.1
Carbon Disulfide	5.0	16	<5.0	<16	<6.0	<19	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5	<1.0	<3.0	0.80	2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<1.0	<3.8	0.80	3.3
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<1.0	<3.9	0.80	3.3

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Galson ID:			L545196-4		L545196-5		L545196-6	
Client ID:			JA-116		JA-109		JA-157	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<1.0	<3.5	0.80	3.0
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<1.0	<3.4	1.6	5.8
Methyl Ethyl Ketone	0.80	2.4	1.1	3.3	2.7	8.0	2.3	6.8
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<1.0	<3.8	0.80	3.3
Hexane	0.80	2.8	<0.80	<2.8	<1.0	<3.4	0.90	3.0
Ethyl Acetate	0.80	2.9	0.90	3.4	1.0	3.8	2.6	9.4
Chloroform	0.80	3.9	<0.80	<3.9	<1.0	<4.7	0.90	4.4
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<1.0	<2.8	0.90	2.7
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<1.0	<3.9	0.90	3.5
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<1.0	<5.2	0.90	4.9
Benzene	0.80	2.6	<0.80	<2.6	<1.0	<3.1	0.90	2.9
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<1.0	<6.0	0.90	5.6
Cyclohexane	0.80	2.8	<0.80	<2.8	<1.0	<3.3	1.0	3.5

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

SGS GALSON

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc.
Site : NS
Project No. : CITY OF ALEXANDRIA
Date Sampled : 19-AUG-21
Date Received : 27-AUG-21

Account No.: 15354
Login No. : L545196

Date Analyzed : 08-SEP-21 - 09-SEP-21
Report ID : 1263530

TO15 List

Galson ID:			L545196-4		L545196-5		L545196-6	
Client ID:			JA-116		JA-109		JA-157	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<1.0	<4.4	0.90	4.2
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<1.0	<6.4	0.90	5.8
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<1.0	<3.5	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<1.0	<5.2	0.80	4.5
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<1.0	<4.5	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<1.0	<3.9	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<1.0	<3.9	1.0	3.9
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<1.0	<4.4	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<1.0	<4.4	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<1.0	<5.2	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<1.0	<3.9	1.0	3.9
Toluene	0.80	3.0	1.6	6.1	1.1	4.2	1.8	6.7
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<1.0	<3.9	0.80	3.3

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

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Account No.: 15354
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TO15 List

Galson ID:			L545196-4		L545196-5		L545196-6	
Client ID:			JA-116		JA-109		JA-157	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<1.0	<8.2	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<1.0	<7.4	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<1.0	<6.5	0.80	5.6
Chlorobenzene	0.80	3.7	<0.80	<3.7	<1.0	<4.4	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<1.0	<4.2	0.80	3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.9	<8.3	1.7	7.2
Bromoform	0.80	8.3	<0.80	<8.3	<1.0	<9.9	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<1.0	<4.1	0.80	3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<1.0	<6.6	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<1.0	<4.2	0.90	3.7
Nonane	0.80	4.2	<0.80	<4.2	<1.0	<5.0	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<1.0	<4.7	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<1.0	<5.0	<0.80	<4.1

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

Approved by : BLD
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Supervisor: BLD

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LELAP Lab ID #04083

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TO15 List

Galson ID:			L545196-4		L545196-5		L545196-6	
Client ID:			JA-116		JA-109		JA-157	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<1.0	<4.7	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<1.0	<4.7	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<1.0	<4.7	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<1.0	<4.7	0.80	4.0
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<1.0	<5.0	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<1.0	<5.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<1.0	<5.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<1.0	<5.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<1.0	<5.0	<0.80	<4.2

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

Approved by : BLD
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TO15 List

Galson ID:			L545196-7		L545196-8		L545196-9	
Client ID:			JA-164		JA-CAFE		JA-LOBBY	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	0.90	2.0	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	3.1	7.4	1.7	4.0	1.4	3.2
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	0.90	2.0	<0.80	<1.8
Acetone	5.0	12	39	93	26	62	19	45

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

Galson ID:			L545196-7		L545196-8		L545196-9	
Client ID:			JA-164		JA-CAFE		JA-LOBBY	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	5.8	14	<5.0	<12	13	31
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	83	250	15	46	2.1	6.2
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2

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

Supervisor: BLD
Approved by : BLD
Date : 22-SEP-21

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc. Account No.: 15354
Site : NS Login No. : L545196
Project No. : CITY OF ALEXANDRIA
Date Sampled : 19-AUG-21 Date Analyzed : 08-SEP-21 - 09-SEP-21
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TO15 List

Galson ID:			L545196-7		L545196-8		L545196-9	
Client ID:			JA-164		JA-CAFE		JA-LOBBY	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	1.0	3.5	1.4	4.8	<0.80	<2.8
Methyl Ethyl Ketone	0.80	2.4	4.2	12	2.0	5.9	1.5	4.5
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	2.4	8.6	1.2	4.1	<0.80	<2.9
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
Submitted by : BLD Date : 22-SEP-21

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TO15 List

Galson ID:			L545196-7		L545196-8		L545196-9	
Client ID:			JA-164		JA-CAFE		JA-LOBBY	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	1.5	6.0	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	3.2	13	<0.80	<3.3
Toluene	0.80	3.0	5.0	19	11	42	1.7	6.3
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

Approved by : BLD
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TO15 List

Galson ID:			L545196-7		L545196-8		L545196-9	
Client ID:			JA-164		JA-CAFE		JA-LOBBY	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

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TO15 List

Galson ID:			L545196-7		L545196-8		L545196-9	
Client ID:			JA-164		JA-CAFE		JA-LOBBY	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

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

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TO15 List

Galson ID:			L545196-10		L545196-11		L545196-12	
Client ID:			JA-147		JA-LIBRARY		JA-202	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	0.80	1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	3.1	7.4	1.6	3.9	0.90	2.2
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	1.3	3.0	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	46	110	19	44	19	45

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

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.
Site : NS
Project No. : CITY OF ALEXANDRIA
Date Sampled : 19-AUG-21
Date Received : 27-AUG-21

Account No.: 15354
Login No. : L545196

Date Analyzed : 08-SEP-21 - 09-SEP-21
Report ID : 1263530

TO15 List

Galson ID:			L545196-10		L545196-11		L545196-12	
Client ID:			JA-147		JA-LIBRARY		JA-202	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	8.2	20	<5.0	<12	5.2	13
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	34	99	14	42	11	33
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
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TO15 List

Galson ID:			L545196-10		L545196-11		L545196-12	
Client ID:			JA-147		JA-LIBRARY		JA-202	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	0.90	3.0	1.2	4.2	2.0	7.1
Methyl Ethyl Ketone	0.80	2.4	1.8	5.3	1.7	5.0	1.2	3.6
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	0.90	3.3	1.0	3.4	1.8	6.5
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	1.1	3.8

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

Galson ID:			L545196-10		L545196-11		L545196-12	
Client ID:			JA-147		JA-LIBRARY		JA-202	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	5.5	22	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	3.5	13	1.6	6.0	3.1	12
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

Galson ID:			L545196-10		L545196-11		L545196-12	
Client ID:			JA-147		JA-LIBRARY		JA-202	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

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

Approved by : BLD
Date : 22-SEP-21

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Report ID : 1263530

TO15 List

Galson ID:			L545196-10		L545196-11		L545196-12	
Client ID:			JA-147		JA-LIBRARY		JA-202	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

SGS GALSON

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc.
Site : NS
Project No. : CITY OF ALEXANDRIA
Date Sampled : 19-AUG-21
Date Received : 27-AUG-21

Account No.: 15354
Login No. : L545196

Date Analyzed : 08-SEP-21 - 09-SEP-21
Report ID : 1263530

TO15 List

Galson ID:			L545196-13		L545196-14		L545196-15	
Client ID:			JA-HALL 213		JA-222		JA-OUTDOOR	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	1.0	2.4	<0.80	<1.9	0.90	2.2
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	13	31	13	30	14	34

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

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TO15 List

Galson ID:			L545196-13		L545196-14		L545196-15	
Client ID:			JA-HALL 213		JA-222		JA-OUTDOOR	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	<5.0	<12	<5.0	<12	<5.0	<12
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	7.8	23	2.4	7.2	1.8	5.3
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS
Collection Media : Mini Can
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Date : 22-SEP-21

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TO15 List

Galson ID:			L545196-13		L545196-14		L545196-15	
Client ID:			JA-HALL 213		JA-222		JA-OUTDOOR	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	1.0	3.7	0.90	3.2	1.2	4.2
Methyl Ethyl Ketone	0.80	2.4	0.90	2.8	1.0	3.0	1.3	3.7
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	<0.80	<2.9	<0.80	<2.9	2.3	8.2
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

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

Supervisor: BLD
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TO15 List

Galson ID:			L545196-13		L545196-14		L545196-15	
Client ID:			JA-HALL 213		JA-222		JA-OUTDOOR	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	1.2	4.4	1.0	3.8	1.1	4.1
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

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.
Site : NS
Project No. : CITY OF ALEXANDRIA
Date Sampled : 19-AUG-21
Date Received : 27-AUG-21

Account No.: 15354
Login No. : L545196

Date Analyzed : 08-SEP-21 - 09-SEP-21
Report ID : 1263530

TO15 List

Galson ID:			L545196-13		L545196-14		L545196-15	
Client ID:			JA-HALL 213		JA-222		JA-OUTDOOR	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	1.5	8.0	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

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.
Site : NS
Project No. : CITY OF ALEXANDRIA
Date Sampled : 19-AUG-21
Date Received : 27-AUG-21

Account No.: 15354
Login No. : L545196

Date Analyzed : 08-SEP-21 - 09-SEP-21
Report ID : 1263530

TO15 List

Galson ID:			L545196-13		L545196-14		L545196-15	
Client ID:			JA-HALL 213		JA-222		JA-OUTDOOR	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

SGS GALSON

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

LABORATORY FOOTNOTE REPORT

Client Name : Phase Separation Science, Inc.
Site :
Project No. : CITY OF ALEXANDRIA

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received: 27-AUG-21 Login No. : L545196
Date Analyzed: 08-SEP-21 - 09-SEP-21

L545196 (Report ID: 1263530):
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)

L545196-1-3,7,11-14 (Report ID: 1263530):
Sample canisters were received at/near ambient pressure.

L545196-4-5,9 (Report ID: 1263530):
Acetone results may be biased high due to co-elution with 2-methylbutane.

L545196-11-12,15 (Report ID: 1263530):
Vinyl Acetate results may be biased high due to co-elution with 2-methylpentane.

L545196 (Report ID: 1263530):
A bracketing continuing calibration verification standard (CCV) was outside the control limits of 70.0 to 130.%
at 64.8% recovery for Naphthalene.

L545196-5 (Report ID: 1263530):
Elevated detection limits due to low sample volume injected. The sample injected at a volume less
than programmed for the autosampler. A dilution factor of 1.2x was applied to compensate for the lower volume.

L545196 (Report ID: 1263530):
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%

SGS GALSON

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

Client Name : Phase Separation Science, Inc.
Site :
Project No. : CITY OF ALEXANDRIA

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received: 27-AUG-21 Login No. : L545196
Date Analyzed: 08-SEP-21 - 09-SEP-21

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%
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%

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East Syracuse, NY 13057
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Client Name : Phase Separation Science, Inc.
Site :
Project No. : CITY OF ALEXANDRIA

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received: 27-AUG-21 Login No. : L545196
Date Analyzed: 08-SEP-21 - 09-SEP-21

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%
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%

1Z2313E40165461239
Date:08/27/21
Shipper:UPS
Initials:BGF
Prep:UNKNOWN

L545196

☐ New Client?

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

Client Account No.*:

Invoice To* : Phase Separation Science

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.

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

www.sgsgalson.com

black cart

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

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 : Project : City of Alexandria Sampled by :

Comments :
Per client, TO15 list. KLD 8/27/21

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* (Maxmium 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.)*
JA-Gym	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
JA-140	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
JA-125	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
JA-116	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
JA-109	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
JA-157	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
JA-164	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
JA-Cafe	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
JA-Lobby	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
JA-147	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
JA-Library	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	

^Galson Laboratories will subsititute 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 Brett Grenert-Fischer	8/27/21	1126
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 delays in your samples being processed.

Page 1 of 2

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

Client Account No.*:

Report To* : Phase Separation Science
6630 Baltimore National Pike
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.

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

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 :

Project : City of Alexandria

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* (Maxmium 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.)*
JA-202	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
JA-Hall 213	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
JA-222	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
JA-Outdoor	08/19/21	Canister	0.5L		VOC (indoor air)	TO-15	
					VOC (indoor air)	TO-15	
					VOC (indoor air)	TO-15	
					VOC (indoor air)	TO-15	
					VOC (indoor air)	TO-15	
					VOC (indoor air)	TO-15	
					VOC (indoor air)	TO-15	
					VOC (indoor air)	TO-15	

^Galson Laboratories will subsitute 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 Brett Grenert-Fischer	8/27/21	1126
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 processing samples being processed.

Page 2 of 2

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

For Questions or issues please contact: Amber Confer

W.O. No. : **21082525**
Project Location : John Adams ES
Project Number : 4920002
Report To LOD : No

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

Samples Transferred To:
SGS North America - NY
6601 Kirkville Road
East Syracuse, NY 13057

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

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21082525-001	JA-Gym	08/19/21	16:30	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-002	JA-140	08/19/21	16:34	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-003	JA-125	08/19/21	16:40	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-004	JA-116	08/19/21	16:45	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-005	JA-109	08/19/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-006	JA-157	08/19/21	16:51	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-007	JA-164	08/19/21	17:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-008	JA-Cafe	08/19/21	17:02	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-009	JA-Lobby	08/19/21	17:04	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-010	JA-147	08/19/21	17:08	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-011	JA-Library	08/19/21	17:16	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-012	JA-202	08/19/21	17:13	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-013	JA-Hall 213	08/19/21	17:19	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-014	JA-222	08/19/21	17:17	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON
21082525-015	JA-Outdoor	08/19/21	17:23	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON

Data Deliverables Required: COA

Perform Q.C. on Sample : _____

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: _____ Carrier : _____

Condition Upon Receipt : _____

Comments :

Samples Relinquished By : _____ Date : _____ Time: _____ Samples Received By : Brett Grenert-Fischer Brett Grenert-Fischer 8/27/21 1126

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

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

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21082525

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 taken at lab upon receipt; samples subcontracted. Incoming pressures will be taken at subcontracted lab.
Stop dates not recorded on COC; flow controllers provided were for an 8 hour collection time. Sampling end date used is 8/19/21.
No stop time documented on COC for sample 005.

21082525: 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

PHASE SEPARATION SCIENCE

TO-15 CHAIN OF CUSTODY FORM

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

www.phaseonline.com ~ info@phaseonline.com

6630 Baltimore National Pike ~ Suite 103-A ~ Baltimore, Maryland 21228 ~ (410) 747-8770 ~ (800) 932-9047

(1)

PSS CLIENT: TEC OFFICE LOCATION: Lorton

BILL TO (if different): PHONE #: (703) 567-4346

CONTACT: Karl Ford EMAIL: KFord@teci.pro

PROJECT NAME: ACPS IAQ testing PROJECT #: 4920002

SITE LOCATION: John Adams ES P.O. #:

SAMPLER(S):

PSS Work Order #: S 21082526

PAGE 1 OF 2

(2) (3)

PSS ID	SAMPLE IDENTIFICATION	DATE START	Time Start (24hr clock)	DATE STOP	Time Stop (24hr clock)	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
1	JA-Gym	8/19/20	830		1630	03180	04453	30+	0						Demo floor
2	JA-140	"	834		1634	531	04587	30	0						
3	JA-125	"	840		1640	02574	10146	30+	-6.0						
4	JA-116	"	845		1645	9103	13813	30	10						
5	JA-109	"	847			681	11473	NA	NA						Gauge broken
6	JA-157	"	851		1651	00334	07480	30+	2						
7	JA-164	"	855		1700	679	04589	26	5						
8	JA-Cafe	"	857		1702	01761	WR369	30	1.5						
9	JA-Lobby	"	901		1704	8335	13806	30+	10.5						
10	JA-147	"	905		1708	8334	13810	30+	9						

(5)

Relinquished By	Date	Time	Received By
(1) [signature]	8/25/21	5:35	B. Colson
(2)			
(3)			
(4)			

(4) **Requested TAT (One TAT per COC)**

☐ 5-Day ☐ 3-Day ☐ 2-Day
☐ Next Day ☐ Emergency ☐ Other

Shipping Carrier: CLIENT

Data Deliverables Required:

Special Instructions:

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

Version 1.001

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(1)

PSS CLIENT: TEC OFFICE LOCATION: Lorton

BILL TO (if different): PHONE #: (703) 567-4346

CONTACT: Karl Ford EMAIL: Kford@teci.pro

PROJECT NAME: ACPS IAQ testing PROJECT #: 492000 2

SITE LOCATION: John Adams ES P.O. #:

SAMPLER(S):

PSS Work Order #: 5 21082524 6 ambient

PAGE 2 OF 2

(2) (3)

PSS ID	SAMPLE IDENTIFICATION	DATE START	Time Start (24hr clock)	DATE STOP	Time Stop (24hr clock)	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
11	JA-Library	8/19/21	910		~~1713~~ 1716	02083	10726	29	0						
12	JA-202	"	915		1713	02624	04621	30	0						
13	JA-Hall 213	"	918		1719	WA150	06408	29	0						
14	JA 222	"	920		1717	02074	WR471	30+	5.5						
15	JA-Outdoor	"	930		1723	~~07495~~ 688	07495	30	6.5						

(5)

Relinquished By:	Date	Time	Received By:
(1) Dennd John	8/25/21	5:35	B. Colsom
(2)			
(3)			
(4)			

(4) Requested TAT (One TAT per COC)
- ☐ 5-Day ☐ 3-Day ☐ 2-Day
- ☐ Next Day ☐ Emergency ☐ Other

Shipping Carrier: CLIENT

Data Deliverables Required:

Special Instructions:

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

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Sample Receipt Checklist

Project Name: ACPS IAQ Testing
PSS Project No.: 21082525

Client Name Total Environmental Concepts - Lorto
Disposal Date 09/29/2021

Received By Betsy Colson
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

Ice N/A
Custody Seal(s) Intact? N/A
Temp (deg C)
Seal(s) Signed / Dated? N/A
Temp Blank Present No

Documentation
Sampler Name Not Provided
N/A
COC agrees with sample labels? Yes
Chain of Custody Yes

Sample Container
Custody Seal(s) Intact? Not Applicable
Appropriate for Specified Analysis? Yes
Seal(s) Signed / Dated Not Applicable
Intact? Yes
Labeled and Labels Legible? Yes

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

Preservation

Total Metals	(pH<2)	N/A
Dissolved Metals, filtered within 15 minutes of collection	(pH<2)	N/A
Orthophosphorus, filtered within 15 minutes of collection		N/A
Cyanides	(pH>12)	N/A
Sulfide	(pH>9)	N/A
TOC, DOC (field filtered), COD, Phenols	(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

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Sample Receipt Checklist

Project Name: ACPS IAQ Testing
PSS Project No.: 21082525

Client Name	Total Environmental Concepts - Lortc	**Received By**	Betsy Colson
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

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 taken at lab upon receipt; samples subcontracted. Incoming pressures will be taken at subcontracted lab.
Stop dates not recorded on COC; flow controllers provided were for an 8 hour collection time. Sampling end date used is 8/19/21.
No stop time documented on COC for sample 005.

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

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

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(1)

PSS CLIENT: OFFICE LOCATION:

BILL TO (if different): PHONE #:

CONTACT: EMAIL:

PROJECT NAME: PROJECT #:

SITE LOCATION: P.O. #:

SAMPLER(S):

PSS Work Order #:

PAGE _____ OF _____

(2) PSS ID	SAMPLE IDENTIFICATION	DATE START	Time Start (24hr clock)	DATE STOP	Time Stop (24hr clock)	(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
	JA-Gym	8/19/20	830		1630	03180	04453	30+	0						Demo floor
	JA-140	"	834		1634	531	04587	30	0						
	JA-125	"	840		1640	02574	10146	30+	-6.0						
	JA-116	"	845		1645	5103	13813	30	10						
	JA-109	"	847			681	11473	NA	NA						Gauge broken
	JA-157	"	851		1651	00334	07480	30+	2						
	JA-164	"	855		1700	679	04589	26	5						
	JA-Cafe	"	857		1702	01761	WR369	30	1.5						
	JA-Lobby	"	901		1704	8335	13806	30+	10.5						
	JA-147	"	905		1708	8334	13810	30+	9						

(5) Relinquished By: (1)	Date	Time	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4) **Requested TAT (One TAT per COC)**

☐ 5-Day ☐ 3-Day ☐ 2-Day ☐ Next Day ☐ Emergency ☐ Other

Shipping Carrier:

Data Deliverables Required:

Special Instructions:

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

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(1)

PSS CLIENT: OFFICE LOCATION:

BILL TO (if different): PHONE #:

CONTACT: EMAIL:

PROJECT NAME: PROJECT #:

SITE LOCATION: P.O. #:

SAMPLER(S):

PSS Work Order #:

PAGE _____ OF _____

(2) (3)

PSS ID	SAMPLE IDENTIFICATION	DATE START	Time Start (24hr clock)	DATE STOP	Time Stop (24hr clock)	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
	JA-Library	8/19/21	910		~~1713~~ 1716	02083	10726	29	0						
	JA-202	"	915		1713	02624	04621	30	0						
	JA-Hall 213	"	918		1719	WA150	06408	29	0						
	JA ZZZ	"	920		1717	02074	WR471	30+	5.5						
	JA-Outdoor	"	930		1723	~~07485~~ 688	07495	30	6.5						

(5)

Relinquished By: (1)	Date	Time	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Requested TAT (One TAT per COC)

☐ 5-Day ☐ 3-Day ☐ 2-Day

☐ Next Day ☐ Emergency ☐ Other

Shipping Carrier:

Data Deliverables Required:

Special Instructions:

Appendix D: Formaldehyde Analytical Results

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21082539

September 3, 2021

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

Reference: PSS Project No: **21082539**
Project Name: ACPS IAQ Testing
Project Location: John Adams
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) **21082539**.

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

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Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21082539

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
21082539-001	JA-Cafeteria	AIR	08/19/21 00:00
21082539-002	JA-Hall 149	AIR	08/19/21 00:00
21082539-003	JA-Class 147	AIR	08/19/21 00:00
21082539-004	JA-Class 140	AIR	08/19/21 00:00
21082539-005	JA-Gym	AIR	08/19/21 00:00
21082539-006	JA-Class 125	AIR	08/19/21 00:00
21082539-007	JA-Class 116	AIR	08/19/21 00:00
21082539-008	JA-Class 109	AIR	08/19/21 00:00
21082539-009	JA-Lobby	AIR	08/19/21 00:00
21082539-010	JA-157	AIR	08/19/21 00:00
21082539-011	JA-Class 164	AIR	08/19/21 00:00
21082539-012	JA-Library	AIR	08/19/21 00:00
21082539-013	JA-Class 202	AIR	08/19/21 00:00
21082539-014	JA-Hall 220	AIR	08/19/21 00:00
21082539-015	JA-Class 222	AIR	08/19/21 00:00

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

Notes:

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

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Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21082539

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

SGS GALSON

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

September 02, 2021

Account# 15354

Login# L545217

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

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Analytical Disclaimers

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

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

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and 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

SGS GALSON

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

LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc.
Site : JOHN ADAMS
Project No. : ACPS IAQ TESTING-4920002
Date Sampled : 19-AUG-21
Date Received : 27-AUG-21

Account No.: 15354
Login No. : L545217
Date Analyzed : 30-AUG-21 - 31-AUG-21
Report ID : 1262672

Formaldehyde

Sample ID	Lab ID	Time minutes	Total ug	Conc mg/m3	ppm
JA-CAFETERIA	L545217-1	248	<0.4	<0.01	<0.01
JA-HALL 149	L545217-2	252	<0.4	<0.01	<0.01
JA-CLASS 147	L545217-3	255	<0.4	<0.01	<0.01
JA-CLASS 140	L545217-4	246	0.4	0.01	0.01
JA-GYM	L545217-5	240	<0.4	<0.01	<0.01
JA-CLASS 125	L545217-6	259	<0.4	<0.01	<0.01
JA-CLASS 116	L545217-7	240	<0.4	<0.01	<0.01
JA-CLASS 109	L545217-8	230	<0.4	<0.01	<0.01
JA-LOBBY	L545217-9	251	<0.4	<0.01	<0.01
JA-157	L545217-10	243	<0.4	<0.01	<0.01
JA-CLASS 164	L545217-11	248	0.4	0.01	0.01
JA-LIBRARY	L545217-12	244	<0.4	<0.01	<0.01
JA-CLASS 202	L545217-13	253	<0.4	<0.01	<0.01
JA-HALL 220	L545217-14	250	<0.4	<0.01	<0.01
JA-CLASS 222	L545217-15	256	<0.4	<0.01	<0.01

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

Level of Quantitation: 0.4 ug
Analytical Method : mod. OSHA 1007; HPLC/UV
Collection Media : Assay 581

Submitted by: JLL
Date : 02-SEP-21
Supervisor : MWJ

Approved by: MLN

GALSON

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

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

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received: 27-AUG-21 Login No. : L545217
Date Analyzed: 30-AUG-21 - 31-AUG-21

L545217 (Report ID: 1262672):
Total ug corrected for a desorption efficiency of 96%.
FORMALDEHYDE results have been corrected for the average background found on the media:
0.1178 ug for lot #4B21 (samples 1-15).
SOPs: LC-SOP-4(23)

L545217 (Report ID: 1262672):
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
Formaldehyde	+/-12.1%	95.3%

1545217 21082539

SGS GALSON

1Z2313E40166972748
Date: 08/27/21
Shipper: UPS
Initials: MAK

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.: ODC 4920002-001
Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

14-15

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

Need Results By:	(surcharge)
☑ KMO 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: John Adams Project: ACPS IAQ testing - 4920002 Sampled by: Karl Ford

Comments:
Dosimeter cartrige # noted in the (Hexavelent Chromium Process) colum

List description of industry or Process/interferences present in sampling area:
Public grade school building

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* (Maxmium 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.)*
JA - Cafeteria	08/19/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5407
JA - Hall 149	08/19/21	Assay N581 Aldehyde Badge	252	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4139
JA - Class 147	08/19/21	Assay N581 Aldehyde Badge	255	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5051
JA - Class 140	08/19/21	Assay N581 Aldehyde Badge	246	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5296
JA - Gym	08/19/21	Assay N581 Aldehyde Badge	240	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4100
JA - Class 125	08/19/21	Assay N581 Aldehyde Badge	259	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4804
JA - Class 116	08/19/21	Assay N581 Aldehyde Badge	240	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4015
JA - Class 109	08/19/21	Assay N581 Aldehyde Badge	230	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4749
JA - Lobby	08/19/21	Assay N581 Aldehyde Badge	251	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4492
JA - ~~Office~~ 157 on 8/26/21	08/19/21	Assay N581 Aldehyde Badge	243	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4079
JA - Class 164	08/19/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4833

^Galson Laboratories will subsititute 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:	Amber Confer		
Relinquished by:	Amber Confer			Received by:	Michelle Krause	8/27/21	1117

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

21082539

SGS GALSON

☐ New Client?

Client Account No.*:

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

www.sgsgalson.com

Report To*: Phase Separation Science
6630 Baltimore National Pike
~~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.: ODC 4920002-001
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)
☑ 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: John Adams Project: ACPS IAQ testing - 4920002 Sampled by: Karl Ford

Comments:

Dosimeter cartrige # noted in the (Hexavelent Chromium Process) colum

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

Public grade school building

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* (Maxmium 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.)*
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*JA - Hall ~~213~~ 220 ac 8/26/21	08/19/21	Assay N581 Aldehyde Badge	250	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4811
JA - Class 222	08/19/21	Assay N581 Aldehyde Badge	256	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4743
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	

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Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by:	Client	8/25/21	1735	Received by:	[signature]		
Relinquished by:	[signature]			Received by:	Michelle Krause [signature]	8/27/21	11:03

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

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Page 2 of 2

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

For Questions or issues please contact: Amber Confer

W.O. No. : **21082539**
Project Location : ~~Samuel Tucker Elementary~~ John Adams
Project Number : 4920002 AN 9/6/21
Report To LOD : No

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

Samples Transferred To:
SGS North America - NY
6601 Kirkville Road
East Syracuse, NY 13057

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

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21082539-001	JA-Cafeteria	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-002	JA-Hall 149	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-003	JA-Class 147	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-004	JA-Class 140	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-005	JA-Gym	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-006	JA-Class 125	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-007	JA-Class 116	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-008	JA-Class 109	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-009	JA-Lobby	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-010	JA-157	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-011	JA-Class 164	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-012	JA-Library	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-013	JA-Class 202	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-014	JA-Hall 220	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21082539-015	JA-Class 222	08/19/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON

Data Deliverables Required: **COA**

Perform Q.C. on Sample : ____

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: ____ Carrier : UPS

Condition Upon Receipt : ____

Comments : ____

Samples Relinquished By : [signature] Date : ____ Time: ____ Samples Received By : ____

Samples Relinquished By: ____ Date : ____ Time : ____ Samples Received By: Michelle Kyrouac 8/27/21 1107

Samples Relinquished By: ____ Date: ____ Time: ____ Samples Received By: ____

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21082539

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 010 reads JA-157. Per client, logged in as JA-157.
Container label for COC sample 014 reads JA-Hall 220. Per client, logged in as JA-Hall 220.

21082539: 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.

21082539

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

Client Account No.*:

Report To* : Phase Separation Science
6630 Baltimore National Pike
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. : ODC 4920002-001
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)
☑ 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 : John Adams Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :
Dosimeter cartrige # noted in the (Hexavelent Chromium Process) colum

List description of industry or Process/interferences present in sampling area :
Public grade school building

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* (Maxmium 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.)*
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JA - Class 147	08/19/21	Assay N581 Aldehyde Badge	255	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5051
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JA - Class 125	08/19/21	Assay N581 Aldehyde Badge	259	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4804
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JA - Class 109	08/19/21	Assay N581 Aldehyde Badge	230	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4749
JA - Lobby	08/19/21	Assay N581 Aldehyde Badge	251	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4492
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Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :	Client	8/25/21	1735	Received by :			
Relinquished by :				Received by :			

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* Required fields, failure to complete these fields may result in a delay in your samples being processed.

Page 1 of 2

21082539

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

Client Account No.*:

Report To* : Phase Separation Science
6630 Baltimore National Pike
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. : ODC 4920002-001
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)
☑ 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 : John Adams Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

Dosimeter cartrige # noted in the (Hexavelent Chromium Process) colum

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

Public grade school building

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):

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JA - Hall ~~213~~ 220 ar 8/26/21	08/19/21	Assay N581 Aldehyde Badge	250	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4811
JA - Class 222	08/19/21	Assay N581 Aldehyde Badge	256	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4743
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
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		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	

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Relinquished by :	Client	8/25/21	1735	Received by :	[signature]		
Relinquished by :	[signature]			Received by :			

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Page 2 of 2

 Version 1.000

PHASE SEPARATION SCIENCE

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

Sample Receipt Checklist

Project Name: ACPS IAQ Testing
PSS Project No.: 21082539

Client Name Total Environmental Concepts - Lortc
Disposal Date 09/29/2021

Received By Amber Confer
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

Ice N/A
Custody Seal(s) Intact? N/A
Temp (deg C)
Seal(s) Signed / Dated? N/A
Temp Blank Present No

Documentation
Sampler Name Karl Ford
COC agrees with sample labels? No
MD DW Cert. No. N/A
Chain of Custody Yes

Sample Container
Custody Seal(s) Intact? Not Applicable
Appropriate for Specified Analysis? Yes
Seal(s) Signed / Dated Not Applicable
Intact? Yes
Labeled and Labels Legible? Yes

Holding Time
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 010 reads JA-157. Per client, logged in as JA-157.
Container label for COC sample 014 reads JA-Hall 220. Per client, logged in as JA-Hall 220.

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

PM Review and Approval: N L Jackson — Date: 08/26/2021
Lynnette Jackson

SGS GALSON

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

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☐ New Client?

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Baltimore, MD 21228

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

Need Results By:	(surcharge)
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☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
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☐ Next Day by Noon	150%
☐ Same Day	200%

Site Name : John Adams Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

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		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	

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Relinquished by :				Received by :			
Relinquished by :				Received by :			

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www.sgsgalson.com

☐ New Client?

Client Account No.*:

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6630 Baltimore National Pike
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. : ODC 4920002-001
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)
☐ 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 : John Adams Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

Dosimeter cartrige # noted in the (Hexavelent Chromium Process) colum

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

Public grade school building

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* (Maxmium 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.)*
JA - Library	08/19/21	Assay N581 Aldehyde Badge	244	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4389
JA - Class 202	08/19/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4479
JA - Hall 213	08/19/21	Assay N581 Aldehyde Badge	250	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4811
JA - Class 222	08/19/21	Assay N581 Aldehyde Badge	256	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4743
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	

^Galson Laboratories will subsititute 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 :			
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.

Appendix E: 4-PCH Analytical Results

PHASE SEPARATION SCIENCE

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

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21082538

September 3, 2021

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

Reference: PSS Project No: **21082538**
Project Name: ACPS IAQ Testing
Project Location: John Adams
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) **21082538**.

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

PHASE SEPARATION SCIENCE

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

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21082538

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
21082538-001	JA-Cafeteria	AIR	08/19/21 00:00
21082538-002	JA-Hall 149	AIR	08/19/21 00:00
21082538-003	JA-Class 147	AIR	08/19/21 00:00
21082538-004	JA-Class 140	AIR	08/19/21 00:00
21082538-005	JA-Gym	AIR	08/19/21 00:00
21082538-006	JA-Class 125	AIR	08/19/21 00:00
21082538-007	JA-Class 116	AIR	08/19/21 00:00
21082538-008	JA-Class 109	AIR	08/19/21 00:00
21082538-009	JA-Lobby	AIR	08/19/21 00:00
21082538-010	JA-157	AIR	08/19/21 00:00
21082538-011	JA-Class 164	AIR	08/19/21 00:00
21082538-012	JA-Library	AIR	08/19/21 00:00
21082538-013	JA-Class 202	AIR	08/19/21 00:00
21082538-014	JA-Hall 220	AIR	08/19/21 00:00
21082538-015	JA-Class 222	AIR	08/19/21 00:00

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

Notes:

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

PHASE SEPARATION SCIENCE

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

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21082538

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

SGS GALSON

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

September 02, 2021

Account# 15354

Login# L545231

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.sgsgalson.com.
- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.
- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).
- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

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

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead, Environmental Microbiology

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and 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

SGS GALSON

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

LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc. Account No.: 15354
Site : JOHN ADAMS Login No. : L545231
Project No. : ACPS IAQ TESTING-4920002
Date Sampled : 19-AUG-21 Date Analyzed : 31-AUG-21 - 01-SEP-21
Date Received : 27-AUG-21 Report ID : 1262968

4-Phenylcyclohexene (4PCH low LOQ)

Sample ID	Lab ID	Air Vol liter	Front ug	Back ug	Total ug	Conc mg/m3	ppm
JA-CAFETERIA	L545231-1	49.6	<0.2	<0.2	<0.2	<0.004	<0.0006
JA-HALL 149	L545231-2	50.4	<0.2	<0.2	<0.2	<0.004	<0.0006
JA-CLASS 147	L545231-3	51	<0.2	<0.2	<0.2	<0.004	<0.0006
JA-CLASS 140	L545231-4	49.2	<0.2	<0.2	<0.2	<0.004	<0.0006
JA-GYM	L545231-5	48	<0.2	<0.2	<0.2	<0.004	<0.0007
JA-CLASS 125	L545231-6	51.8	<0.2	<0.2	<0.2	<0.004	<0.0006
JA-CLASS 116	L545231-7	48	<0.2	<0.2	<0.2	<0.004	<0.0007
JA-CLASS 109	L545231-8	46	<0.2	<0.2	<0.2	<0.004	<0.0007
JA-LOBBY	L545231-9	50.2	<0.2	<0.2	<0.2	<0.004	<0.0006
JA-157	L545231-10	48.6	<0.2	<0.2	<0.2	<0.004	<0.0007
JA-CLASS 164	L545231-11	49.6	<0.2	<0.2	<0.2	<0.004	<0.0006
JA-LIBRARY	L545231-12	48.8	<0.2	<0.2	<0.2	<0.004	<0.0007
JA-CLASS 202	L545231-13	50.6	<0.2	<0.2	<0.2	<0.004	<0.0006
JA-HALL 220	L545231-14	50	<0.2	<0.2	<0.2	<0.004	<0.0006
JA-CLASS 222	L545231-15	51.2	<0.2	<0.2	<0.2	<0.004	<0.0006

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 : 02-SEP-21
Supervisor : KAG

Approved by: MLN

SGS GALSON

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

LABORATORY FOOTNOTE REPORT

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

Date Sampled : 19-AUG-21 Account No.: 15354
Date Received: 27-AUG-21 Login No. : L545231
Date Analyzed: 31-AUG-21 - 01-SEP-21

L545231 (Report ID: 1262968):
Total ug corrected for a desorption efficiency of 97%.
SOPs: GC-SOP-16(26), GC-SOP-8(27), GC-SOP-12(20)

L545231 (Report ID: 1262968):
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%

L545231 21082538

SGS GALSON

1Z2313E40166972748
Date: 08/27/21
Shipper: UPS
Initials: MAK
Prep: UNKNOWN

☐ New Client? Client Account No.*:

Report To*: Phase Separation Science
6630 Baltimore National Pike
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.: ODC 4920002-001
Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

6

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

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%

ASD

Site Name: John Adams Project: ACPS IAQ testing - 4920002 Sampled by: Karl Ford

Comments:

List description of industry or Process/interferences present in sampling area:
Public grade school building

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* (Maxmium of 20 Characters)	Date Sampled	Collection Medium 226-01	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.)*
JA - Cafeteria	08/19/21	Assay N581 Aldehyde Badge	49.6	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Hall 149	08/19/21	Assay N581 Aldehyde Badge	50.4	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 147	08/19/21	Assay N581 Aldehyde Badge	51.0	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 140	08/19/21	Assay N581 Aldehyde Badge	49.2	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Gym	08/19/21	Assay N581 Aldehyde Badge	48.0	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 125	08/19/21	Assay N581 Aldehyde Badge	51.8	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 116	08/19/21	Assay N581 Aldehyde Badge	48.0	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 109	08/19/21	Assay N581 Aldehyde Badge	46.0	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Lobby on 8/26/21	08/19/21	Assay N581 Aldehyde Badge	50.2	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - ~~Office~~ 157	08/19/21	Assay N581 Aldehyde Badge	48.6	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 164	08/19/21	Assay N581 Aldehyde Badge	49.6	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	

VASD 8/27/21

^Galson Laboratories will subsititute 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:				Received by:	Michelle Krause	8/27/21	1117

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.

21082538

SGS GALSON

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

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☐ New Client?

Client Account No.*:

Report To* : Phase Separation Science
6630 Baltimore National Pike
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. : ODC 4920002-001
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)
☑ 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 : John Adams Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

List description of industry or Process/interferences present in sampling area :
Public grade school building

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* (Maxmium 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.)*
JA - Library	08/19/21	Assay N581 Aldehyde Badge 22601	48.8	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 202	08/19/21	Assay N581 Aldehyde Badge	50.6	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Hall ~~213~~ 220	08/19/21	Assay N581 Aldehyde Badge	50.0	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 222	08/19/21	Assay N581 Aldehyde Badge	51.2	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge ASS 8/27/21				mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge				mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge				mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge				mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge				mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge				mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge				mod. OSHA 1007: TPLC/UV	

^Galson Laboratories will subsititute 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 :				Received by	Michelle Krause	8/27/21	1117

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

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

For Questions or issues please contact: Amber Confer

W.O. No. : **21082538**

Project Location : ~~Samuel Tucker Elementary~~ John Adams

Project Number : 4920002 an 8/26/21

Report To LOD : No

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

Samples Transferred To:
SGS North America - NY
6601 Kirkville Road
East Syracuse, NY 13057

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

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21082538-001	JA-Cafeteria	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-002	JA-Hall 149	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-003	JA-Class 147	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-004	JA-Class 140	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-005	JA-Gym	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-006	JA-Class 125	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-007	JA-Class 116	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-008	JA-Class 109	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-009	JA-Lobby	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-010	JA-157	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-011	JA-Class 164	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-012	JA-Library	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-013	JA-Class 202	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-014	JA-Hall 220	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21082538-015	JA-Class 222	08/19/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON

Data Deliverables Required: COA

Perform Q.C. on Sample : _____

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: _____ Carrier : UPS

Condition Upon Receipt : _____

Comments :

Samples Relinquished By : [signature] Date : _____ Time: _____ Samples Received By : _____

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

Samples Relinquished By: _____ Date: _____ Time: _____ Samples Received By: Michelle Kyzer 8/27/21 1107

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21082538

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 010 reads JA-157. Per client, logged in as JA-157.
Container label for COC sample 014 reads JA-Hall 220. Per client, logged in as JA-Hall 220.

21082538: 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.

21082538

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

Client Account No.*:

Report To* : Phase Separation Science
6630 Baltimore National Pike
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. : ODC 4920002-001
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)
☑ 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 : John Adams Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

List description of industry or Process/interferences present in sampling area :
Public grade school building

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* (Maxmium 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.)*
JA - Cafeteria	08/19/21	Assay N581 Aldehyde Badge	49.6	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Hall 149	08/19/21	Assay N581 Aldehyde Badge	50.4	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 147	08/19/21	Assay N581 Aldehyde Badge	51.0	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 140	08/19/21	Assay N581 Aldehyde Badge	49.2	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Gym	08/19/21	Assay N581 Aldehyde Badge	48.0	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 125	08/19/21	Assay N581 Aldehyde Badge	51.8	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 116	08/19/21	Assay N581 Aldehyde Badge	48.0	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 109	08/19/21	Assay N581 Aldehyde Badge	46.0	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Lobby on 8/24/21	08/19/21	Assay N581 Aldehyde Badge	50.2	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - ~~Office~~ 157	08/19/21	Assay N581 Aldehyde Badge	48.6	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 164	08/19/21	Assay N581 Aldehyde Badge	49.6	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	

^Galson Laboratories will subsititute 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 :	Amber Confer		
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.

Page 1 of 2

21082538

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

Client Account No.*:

Report To* : Phase Separation Science
6630 Baltimore National Pike
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. : ODC 4920002-001
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)
☑ 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 : John Adams Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

List description of industry or Process/interferences present in sampling area : Public grade school building

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* (Maxmium 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.)*
JA - Library	08/19/21	Assay N581 Aldehyde Badge	48.8	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 202	08/19/21	Assay N581 Aldehyde Badge	50.6	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Hall ~~213~~ 220	08/19/21	Assay N581 Aldehyde Badge	50.0	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
JA - Class 222	08/19/21	Assay N581 Aldehyde Badge	51.2	L	4-Phenylcyclohexene	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge				mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge				mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge				mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge				mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge				mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge				mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge				mod. OSHA 1007: TPLC/UV	

^Galson Laboratories will subsititute 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 :	Amber J Confer		
Relinquished by :	Amber J 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.

Page 1 of 2

PHASE SEPARATION SCIENCE

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

Sample Receipt Checklist

Project Name: ACPS IAQ Testing
PSS Project No.: 21082538

Client Name Total Environmental Concepts - Lorto
Disposal Date 09/29/2021

Received By Amber Confer
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

Ice N/A
Custody Seal(s) Intact? N/A
Temp (deg C)
Seal(s) Signed / Dated? N/A
Temp Blank Present No

Documentation
Sampler Name Karl Ford
COC agrees with sample labels? No
MD DW Cert. No. N/A
Chain of Custody Yes

Sample Container
Custody Seal(s) Intact? Not Applicable
Appropriate for Specified Analysis? Yes
Seal(s) Signed / Dated Not Applicable
Intact? Yes
Labeled and Labels Legible? Yes

Holding Time
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 010 reads JA-157. Per client, logged in as JA-157.
Container label for COC sample 014 reads JA-Hall 220. Per client, logged in as JA-Hall 220.

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

PM Review and Approval: N L Jackson — Date: 08/26/2021
Lynnette Jackson

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

Client Account No.*:

Report To* : Phase Separation Science
6630 Baltimore National Pike
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. : ODC 4920002-001
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)
☐ 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 : John Adams Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

Dosimeter cartrige # noted in the (Hexavelent Chromium Process) colum

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

Public grade school building

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* (Maxmium 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.)*
JA - Library	08/19/21	Assay N581 Aldehyde Badge	244	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4389
JA - Class 202	08/19/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4479
JA - Hall 213	08/19/21	Assay N581 Aldehyde Badge	250	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4811
JA - Class 222	08/19/21	Assay N581 Aldehyde Badge	256	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4743
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	

^Galson Laboratories will subsititute 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 :			
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.

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

Client Account No.*:

Report To* : Phase Separation Science
6630 Baltimore National Pike
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. : ODC 4920002-001
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)
☐	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 : John Adams Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

Dosimeter cartrige # noted in the (Hexavelent Chromium Process) colum

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

Public grade school building

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* (Maxmium 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.)*
JA - Library	08/19/21	Assay N581 Aldehyde Badge	244	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4389
JA - Class 202	08/19/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4479
JA - Hall 213	08/19/21	Assay N581 Aldehyde Badge	250	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4811
JA - Class 222	08/19/21	Assay N581 Aldehyde Badge	256	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4743
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	
		Assay N581 Aldehyde Badge			Formaldehyde	mod. OSHA 1007: TPLC/UV	

^Galson Laboratories will subsititute 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

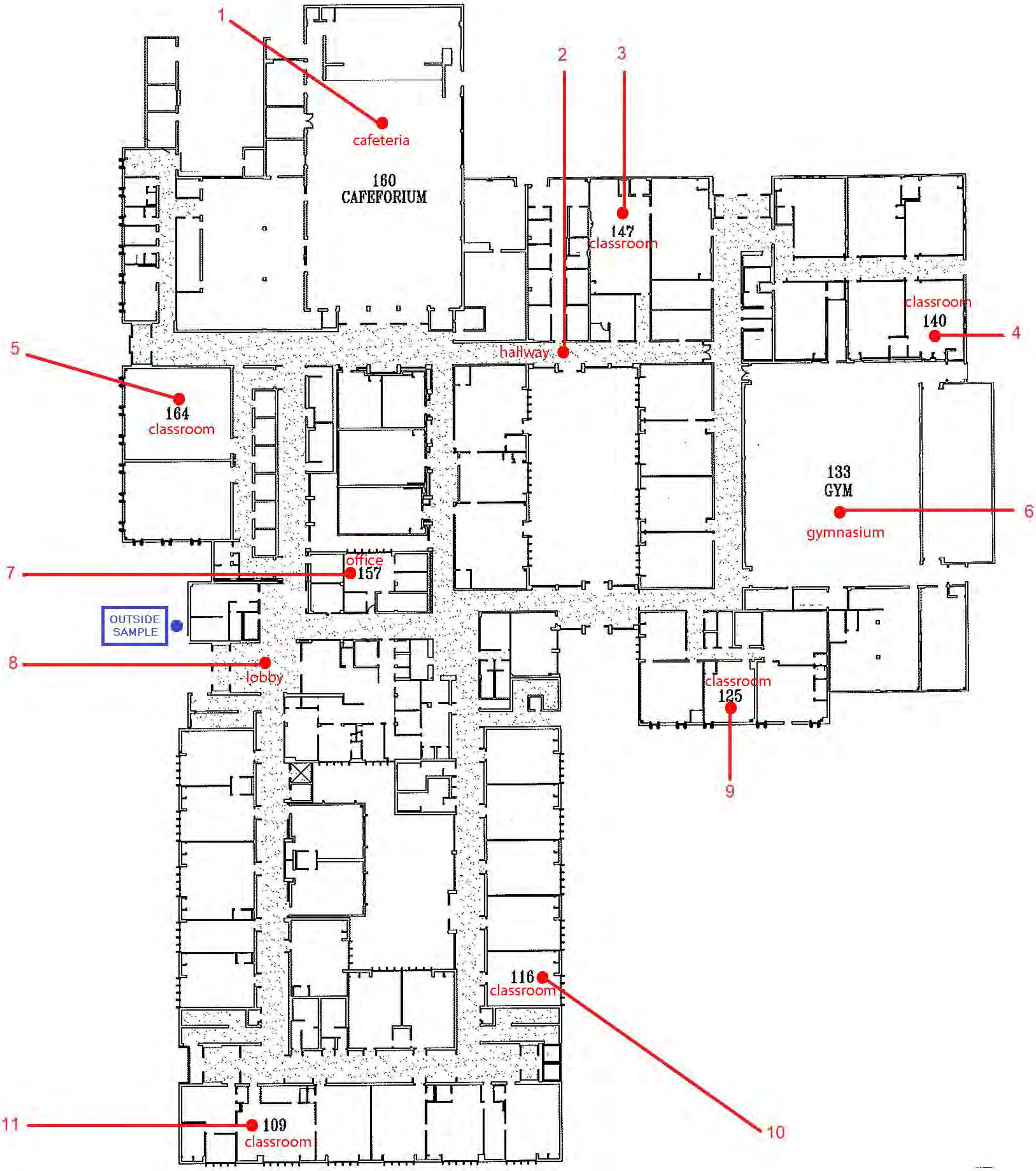
For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

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 :			
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.

Appendix F: Sampling Locations



LEGEND

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

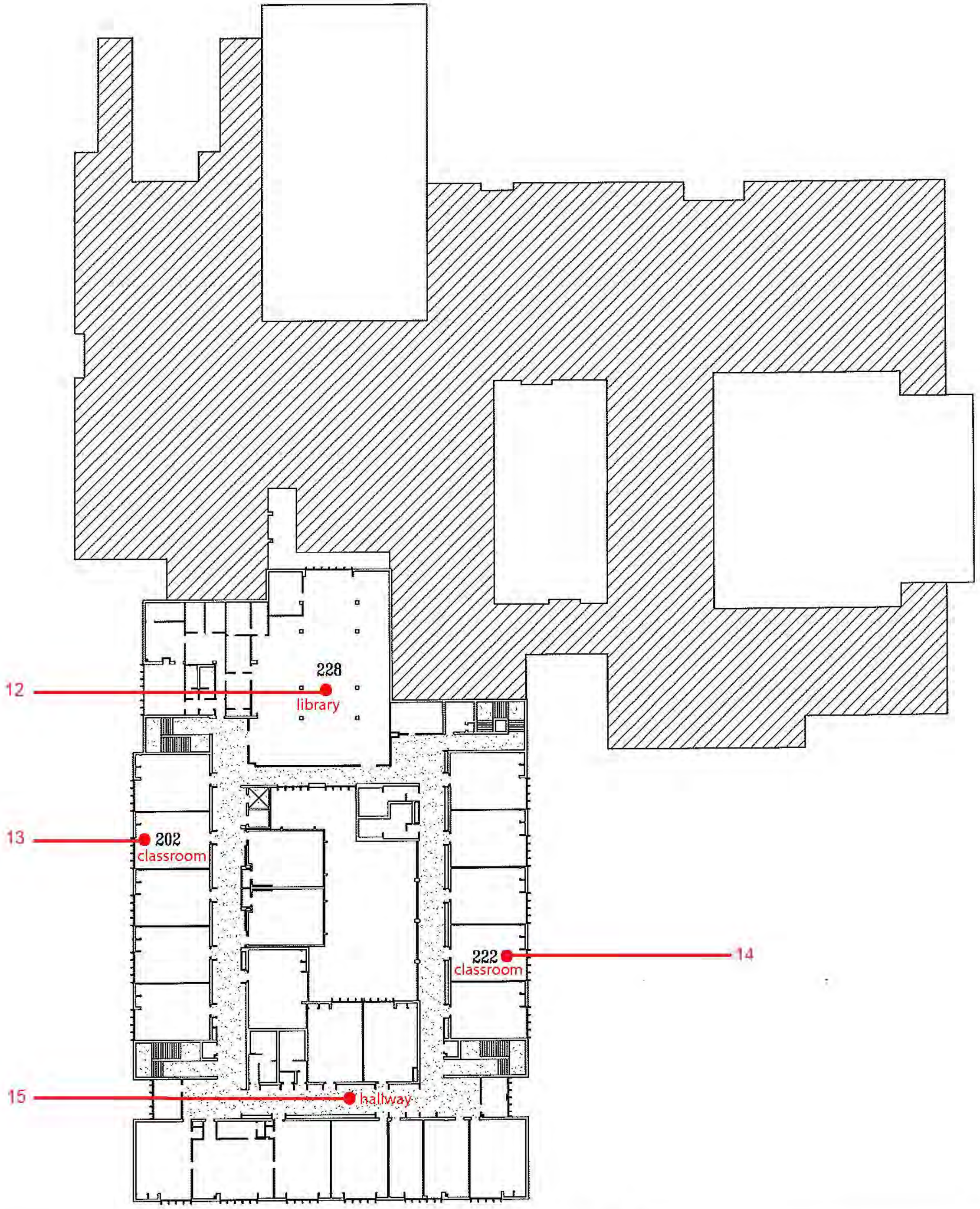
JOHN ADAMS ELEMENTARY SCHOOL

5651 Rayburn Avenue
Alexandria, Va 22311

1ST FLOOR PLAN

Total Environmental Concepts, Inc.
8382 Terminal Road, Suite B
Lorton, VA 22079
Phone: 703-567-4346
Fax: 703-567-3487

Figure 1



LEGEND

● Sample Location Analyzed For:

Mold
Radon
VOC's (TO+15)
4-polycyclohexene
Formaldehyde

JOHN ADAMS ELEMENTARY SCHOOL

5651 Rayburn Avenue
Alexandria, Va 22311

2nd FLOOR PLAN

Total Environmental Concepts, Inc.
8382 Terminal Road, Suite B
Lorton, VA 22079
Phone: 703-567-4346
Fax: 703-567-3487

Figure 2

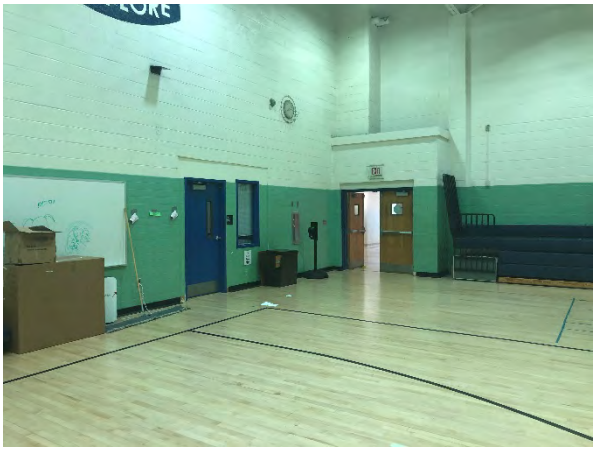
Appendix G: Photographs

John Adams, Library

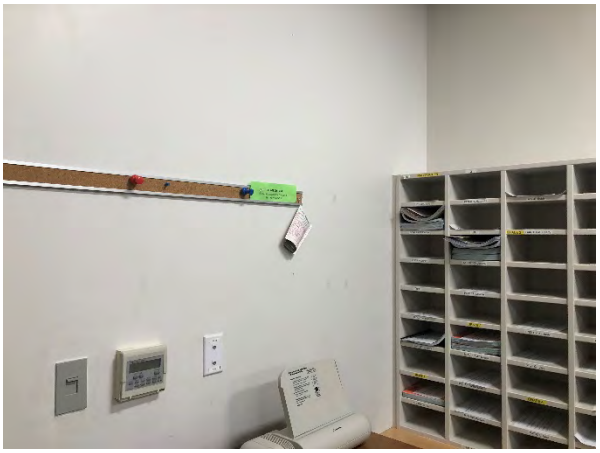
John Adams, Cafetorium

John Adams, Lobby

John Adams, Classroom



John Adams, Gym



John Adams, Office