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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

JEFFERSON-HOUSTON ELEMENTARY SCHOOL

1501 CAMERON ST,
ALEXANDRIA, VA 22314

Report Prepared for:

John Contreras

Alexandria City Public Schools

2601 Cameron Mills Rd, Alexandria, VA 22302

Dated: October 5, 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. The original list is provided below:

- Alexandria City High School (AC)
- AC Satellite 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 MacArthur Elementary School (Out of Service)
- **Jefferson-Houston Elementary School (JH)**
- Ferdinand T. Day Elementary School (FD)
- Patrick Henry K-8 School (PH)
- Mount Vernon Community School (MV)

This IAQ assessment was conducted at Jefferson-Houston Elementary School on Friday, September 3, 2021. ACPS required that the testing 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. ACPS chose sampling locations based on internal review of facilities maintenance records, and a review of facilities maintenance-related issues. These sampling locations were selected to collect representative IAQ data in these specific areas and to document any areas of potential concern observed during the site assessment. 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 recommendations during this limited IAQ investigation:

- **Mold** – TEC conducted site-specific mold sampling outside at Jefferson Houston 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 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 Jefferson Houston Elementary School were indicative of mold issues.

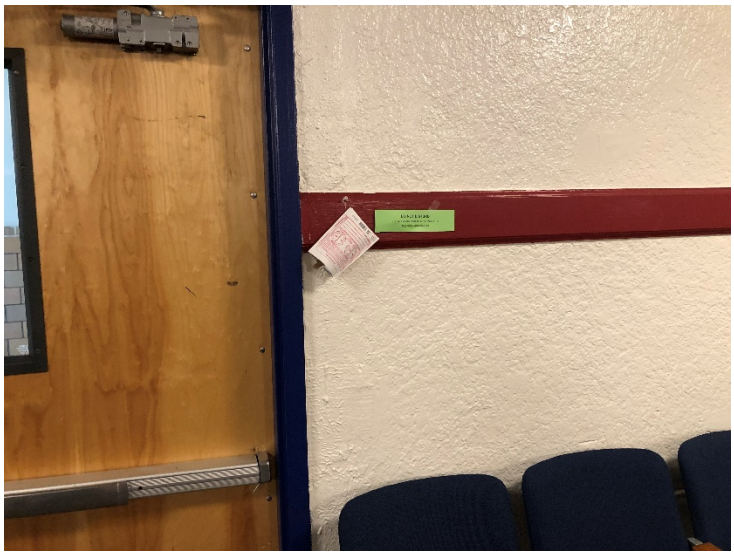
- **Radon** – levels recorded in all locations were less than 4pCi/L, as recommended by EPA and HUD.
- **VOCs** – The levels of volatile organic compounds (VOCs) recorded at each location were within acceptable ranges compared to EPA Regional Screening Levels (RSLs).
- **4-PCH** – levels recorded during 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 a 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 this investigation, ≤ 65%. None of the tested locations had a relative humidity greater than 65%.
- **Temperature** – none of the tested spaces had temperatures greater than the ASHRAE recommended summer range of 75°F-80.5°F.

2. Assessment 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, September 3, 2021. All air samples were collected three feet to six feet from the 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. The 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 total surface area of the sampling device for the 4 hours of sampling time. Monitors were collected after 4 hours and processed for shipment to Phase Separation Science located in Catonsville, MD. Formaldehyde analytical results can be found in Appendix D.

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. Temperature and relative humidity readings can be found in Section 5, Mold Sampling Results, below.

Real-time measurements for oxygen, carbon dioxide, carbon monoxide, VOC, hydrogen sulfides were taken with a 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	September 3, 2021	Visual Observations
Second Floor Dining/Work Area	View of the open dining and work area on the second floor.	

Entrance Lobby	View of the entrance lobby to Jefferson Houston Elementary School.	
Stairs 300	View of the exit stairwell to the thrid floor of Jefferson Houston Elementary School.	

Third Floor Stair	View of the circular stairwell on the third floor of Jefferson Houston.	

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 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 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 the 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 below 65% in all locations. Average relative humidity can be found in Table 2.

4.3 Carbon Dioxide

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

4.4 Carbon Monoxide

Carbon monoxide (CO) is a by-product 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 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 Jefferson Houston 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 break down. Some building materials, such as granite, maybe a source of radon. ACPS provided sampling areas, which did not allow for TEC to utilize the sampling protocol provided by Air Chek to perform 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 the 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. TO+15 (VOC) Sampling Results

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

8. 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.

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 by-product of carpet manufacturing and has been associated with adverse health effects. None of the areas investigated during this study indicated elevated levels of pch. Analytical results can be found in Appendix E.

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

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

Table 1

Multi-Gas Detector Readings				
Location	VOC	CO	OXYGEN	H2S
Reception Office	0.0	0.0	20.9	0.0
Cafeteria	0.0	0.0	20.9	0.0
Library	0.0	0.0	20.9	0.0
Theater	0.0	0.0	20.9	0.0
Hall 118	0.0	0.0	20.9	0.0
Gym	0.0	0.0	20.9	0.0
Multi-Purpose	0.0	0.0	20.9	0.0
201	0.0	0.0	20.9	0.0
218	0.0	0.0	20.9	0.0
Stairs 300	0.0	0.0	20.9	0.0
ELA 3 floor	0.0	0.0	20.9	0.0
Stairs 3 floor	0.0	0.0	20.9	0.0
329	0.0	0.0	20.9	0.0
133	0.0	0.0	20.9	0.0
Hall 14	0.0	0.0	20.9	0.0

Table 2

Results of Analytes by Location						
Location	Radon	Mold		TO+15 VOCs	4PCH	Formaldehyde
		AVG: 70 F	AVG: 60 %			
Reception Office	< 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
Library	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Theater	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hall 118	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Gym	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Multi-Purpose	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
201	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
218	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Stairs 300	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
ELA 3 floor	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Stairs 3 floor	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
329	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
133	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hall 14	< 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 related to sample collection and processing performance.
- To ensure compliance with QA/QC measures, Standard Operating Procedures (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

#21033473

Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road
Suite B
Lorton, VA 22079

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

Jefferson Houston

Collected: **September 2, 2021**
Received: **September 3, 2021**
Reported: **September 3, 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 September 3rd, 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

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

Jefferson Houston

#21033473

Spore Trap
SOP - HMC#101

Sample Number	1	JH 4315158		2	JH 4315164		3	JH 4315122		4	JH 4315137	
Sample Name	JH Stair 01			JH ELA F13			JH Lobby 3			JH 329		
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	1			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	100.0%	6	80	85.7%	2	27	16.7%	3	40	75.0%
Aspergillus|Penicillium												
Basidiospores				1	13	14.3%				1	13	25.0%
Bipolaris|Drechslera												
Chaetomium												
Cladosporium							10	133	83.3%			
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	1	13	100%	7	93	100%	12	160	100%	4	53	100%

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

Collected: **Sep 2, 2021** Received: **Sep 3, 2021** Reported: **Sep 3, 2021**

Project Analyst: Ramesh Poluri, PhD P. Ramesh Date: **09 - 03 - 2021**

Reviewed By: Steve Hayes, BSMT Stephen N. Hayes Date: **09 - 03 - 2021**

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Jefferson Houston

#21033473

Spore Trap
SOP - HMC#101

Sample Number	5	JH 4315121		6	JH 4315134		7	JH 4315159		8	JH 4315133	
Sample Name	**JH Gym**			**JH Multi Purpose Room 158**			**JH Hall 144**			**JH 133**		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m^3			13 spores/m^3			13 spores/m^3			13 spores/m^3		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	**Raw Count**	**Count / m^3**	**% of Total**	**Raw Count**	**Count / m^3**	**% of Total**	**Raw Count**	**Count / m^3**	**% of Total**	**Raw Count**	**Count / m^3**	**% of Total**
Alternaria												
Ascospores	2	27	66.7%	2	27	100.0%	1	13	33.3%	3	40	50.0%
Aspergillus|Penicillium												
Basidiospores	1	13	33.3%							2	27	33.3%
Bipolaris|Drechslera												
Chaetomium												
Cladosporium							2	27	66.7%	1	13	16.7%
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	3	40	100%	2	27	100%	3	40	100%	6	80	100%

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

Collected: **Sep 2, 2021** Received: **Sep 3, 2021** Reported: **Sep 3, 2021**

Project Analyst: Ramesh Poluri, PhD P. Ramesh Date: **09 - 03 - 2021**

Reviewed By: Steve Hayes, BSMT Stephen N. Hayes Date: **09 - 03 - 2021**

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Spore Trap
SOP - HMC#101

Sample Number	9	JH 4315126		10	JH 4315163		11	JH 4315142		12	JH 4315136	
Sample Name	JH 201			JH 218			JH Library			JH Reception		
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%	1	13	100.0%	1	13	50.0%	2	27	66.7%
Aspergillus|Penicillium												
Basidiospores							1	13	50.0%	1	13	33.3%
Bipolaris|Drechslera												
Chaetomium												
Cladosporium												
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	2	27	100%	1	13	100%	2	26	100%	3	40	100%

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

Collected: **Sep 2, 2021** Received: **Sep 3, 2021** Reported: **Sep 3, 2021**

Project Analyst: Ramesh Poluri, PhD P. Ramesh Date: **09 - 03 - 2021**

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Jefferson Houston

#21033473

Spore Trap
SOP - HMC#101

Sample Number	13	JH 4315166		14	JH 4315165		15	JH 4315128		16	JH 4315138	
Sample Name	JH Outdoor			JH Cafe			JH Hall 118			JH Theater		
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	13/m³			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	1	13	<1%									
Ascospores	128	1707	54.5%	2	27	100.0%	1	13	100.0%	1	13	50.0%
Aspergillus|Penicillium	2	27	<1%									
Basidiospores	30	400	12.8%									
Bipolaris|Drechslera	2	27	<1%									
Chaetomium												
Cladosporium	72	960	30.6%									
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes										1	13	50.0%
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	235	3134	100%	2	27	100%	1	13	100%	2	26	100%

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

Collected: **Sep 2, 2021** Received: **Sep 3, 2021** Reported: **Sep 3, 2021**

Project Analyst: Ramesh Poluri, PhD P. Ramesh Date: **09 - 03 - 2021**

Reviewed By: Steve Hayes, BSMT Stephen N. Hayes Date: **09 - 03 - 2021**

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

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

Jefferson Houston

#21033473

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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Organism Descriptions

Alternaria

Habitat: Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and other horizontal surfaces.

Effects: A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of producing toxic metabolites which may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated cutaneous infection and chronic sinusitis, principally in the immunocompromised patient.

Ascospores

Habitat: A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.

Effects: Health affects are poorly studied, but many are likely to be allergenic.

Aspergillus|Penicillium

Habitat: The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates.

Effects: This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.

Basidiospores

Habitat: A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings.

Effects: Common allergens and are also associated with hypersensitivity pneumonitis.

Bipolaris|Drechslera

Habitat: They are found in soil and as plant pathogens. Can grow indoors on a variety of substrates.

Effects: They may be allergenic and are very commonly involved in allergic fungal sinusitis. They are opportunistic pathogens but occasionally infect healthy individuals, causing keratitis, sinusitis and osteomyelitis.

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.

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#21033473

Organism Descriptions

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.

Total Environmental Concepts, Inc.

Placement Tech	Victoria P	Sample Type	mold
Placement Date	9/21/21	Email	Kford@tci.pro
Address	Jefferson houston		

Sample #	Location/ room	Flow Rate	Sampling Time	Pump Start Time	Pump End Time	Comments
JH 4315158	JH Stairol	10L/M		1630	1638	70°F 60%.
JH 4315164	JH ELA f13			1633	1640	
JH 4315122	JH lobby 3			1642	1650	
JH 4315137	JH 329			1644	1652	
JH 4315121	JH gym			1655	1702	
JH 4315134	JH multi purpose room 158			1705	1712	
JH 4315159	JH hall 144			1709	1716	
JH 4315133	JH 133			1714	1721	
JH 4315126	JH 201			1633	1645	
JH 4315163	JH 218			1649	16456	
JH 4315142	JH library			1703	1711	
JH 4315136	JH reception			1631	1639	
JH 4315166	JH outdoor			1635	1642	
JH 4315165	JH cafe			1647	1654	
JH 4315128	JH hall 118			1700	1708	
JH 4315138	JH theater			1703	1710	

Appendix B: Radon Analytical Results

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731135 Result: < 0.3 pCi/l

Location:

Jh- 133

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-09-03 at 11:00 am

Ended : 2021-09-07 at 3:00 pm

Hours/MST% : 100 hours 14.9% 70°F

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731120 Result: < 0.3 pCi/l

Location:

Jh-218

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-09-03 at 12:00 pm

Ended : 2021-09-07 at 4:00 pm

Hours/MST% : 100 hours 14.8% 70°F

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731120 Result: < 0.3 pCi/l

Location:

Jh-218

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-09-03 at 12:00 pm

Ended : 2021-09-07 at 4:00 pm

Hours/MST% : 100 hours 14.8% 70°F

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731128 Result: 0.5 ± 0.3 pCi/l

Location:

Jh- 329

,

Analysis Note :

Analyzed : 2021-09-09 at 3:00 pm

Started : 2021-09-03 at 11:00 am

Ended : 2021-09-07 at 3:00 pm

Hours/MST% : 100 hours 11.7% 70°F

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731124 Result: < 0.3 pCi/l
Location:

Jh- Ela 3rd Floor
,

Analysis Note :
Analyzed : 2021-09-09 at 2:00 pm
Started : 2021-09-03 at 11:00 am
Ended : 2021-09-07 at 3:00 pm
Hours/MST% : 100 hours 16.8% 70°F

Kit #: 9731127 Result: < 0.3 pCi/l
Location:

Jh- Stairs 3rd Floor
,

Analysis Note :
Analyzed : 2021-09-09 at 2:00 pm
Started : 2021-09-03 at 11:00 am
Ended : 2021-09-07 at 3:00 pm
Hours/MST% : 100 hours 13.0% 70°F

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731131 Result: < 0.3 pCi/l

Location:

Jh- Hall 118

,

Analysis Note :

Analyzed : 2021-09-09 at 3:00 pm

Started : 2021-09-03 at 11:00 am

Ended : 2021-09-07 at 3:00 pm

Hours/MST% : 100 hours 13.1% 70°F

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731126 Result: < 0.3 pCi/l

Location:

Jh- Hall 140

,

Analysis Note :

Analyzed : 2021-09-09 at 2:00 pm

Started : 2021-09-03 at 11:00 am

Ended : 2021-09-07 at 3:00 pm

Hours/MST% : 100 hours 13.0% 70°F

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9731122 Result: < 0.3 pCi/l
Location:

Jh-Reception
,

Analysis Note :
Analyzed : 2021-09-09 at 2:00 pm
Started : 2021-09-03 at 11:00 am
Ended : 2021-09-07 at 4:00 pm
Hours/MST% : 101 hours 9.8% 70°F

Kit #: 9731129 Result: < 0.3 pCi/l
Location:

Jh- Cefeteria D
,

Analysis Note :
Analyzed : 2021-09-09 at 2:00 pm
Started : 2021-09-03 at 11:00 am
Ended : 2021-09-07 at 3:00 pm
Hours/MST% : 100 hours 9.7% 70°F

Kit #: 9731130 Result: < 0.3 pCi/l
Location:

Jh- Cefeteria
,

Analysis Note :
Analyzed : 2021-09-09 at 2:00 pm
Started : 2021-09-03 at 11:00 am
Ended : 2021-09-07 at 3:00 pm
Hours/MST% : 100 hours 9.8% 70°F

Kit #: 9731132 Result: < 0.3 pCi/l
Location:

Jh- Cafeteria
,

Analysis Note :
Analyzed : 2021-09-09 at 2:00 pm
Started : 2021-09-03 at 11:00 am
Ended : 2021-09-07 at 3:00 pm
Hours/MST% : 100 hours 11.0% 70°F

Kit #: 9731133 Result: < 0.3 pCi/l
Location:

Jh- Theater
,

Analysis Note :
Analyzed : 2021-09-09 at 2:00 pm
Started : 2021-09-03 at 11:00 am
Ended : 2021-09-07 at 3:00 pm
Hours/MST% : 100 hours 12.3% 70°F

Kit #: 9731136 Result: < 0.3 pCi/l
Location:

Jh- Gym
,

Analysis Note :
Analyzed : 2021-09-09 at 2:00 pm
Started : 2021-09-03 at 11:00 am
Ended : 2021-09-07 at 3:00 pm
Hours/MST% : 100 hours 10.3% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723759 Result: ????
Location:

Jh- Multipurpose 1
,

Analysis Note : MI
Analyzed : 2021-09-09 at 2:00 pm
Started : 0000-00-00 at
Ended : 2021-09-07 at 3:00 pm
Hours/MST% : 0 hours 8.9% 70°F

Kit #: 9731121 Result: < 0.3 pCi/l
Location:

Jh-Media B
,

Analysis Note :
Analyzed : 2021-09-09 at 2:00 pm
Started : 2021-09-03 at 12:00 pm
Ended : 2021-09-07 at 3:00 pm
Hours/MST% : 99 hours 5.2% 70°F

Kit #: 9731134 Result: < 0.3 pCi/l
Location:

Jh- Media Center 1
,

Analysis Note :
Analyzed : 2021-09-09 at 2:00 pm
Started : 2021-09-03 at 12:00 pm
Ended : 2021-09-07 at 3:00 pm
Hours/MST% : 99 hours 13.7% 70°F

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

Total Environmental Concepts, Inc.

Placement Tech		Sample Type	Radon	Pickup Tech	
Placement Date	9/3/21	Sample Media		Pickup Date	
Address	Jefferson Houston			Email	

Sample #	Location/ room	SQFT >2000	HVAC Y/N	Window Y/N	Fan Y/N	Time in	Time out	Comment
JH 9731122	Reception		Y	Y	N	11:30		
JH 9731130	Cafeteria		Y	Y	N	11:35		
JH 9731129	Cafeteria D		Y	Y	N	11:35		
JH 9731132	Cafeteria		Y	Y	N	11:35		
JH 9731131	Hall 118		Y	N	N	11:39		
JH 9731136	Gym		Y	N	N	11:45		
JH 9723893	Gym		Y	N	N	11:45		
JH 9723759	Multi purpose-2		Y	Y	N	11:51		
JH 9731119	201 Room		Y	Y	N	11:29		
JH 9731120	218 Room		Y	Y	N	11:27		
JH 9731134	media center-1		Y	Y	N	11:32		
JH 9731117D	media center-D		Y	Y	N	11:32		
JH 9731127	media center-B		Y	Y	N	11:32		
JH 9731125	media center-2		Y	Y	N	11:39		
JH 9723780	multi purpose-1		Y	N	N	11:51		
JH 9731123	Stairs300		Y	Y		1126		
JH 9731124	ELA 3floor		Y	Y		1128		
JH 9731127	Stairs 3floor		Y	Y		1130		
JH 9731128	329		Y	Y		1135		
JH 9731133	theater		Y	Y		1138		
JH 9731135	133		Y	Y		1141		
JH 9731126	hall140		Y	Y		1143		

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.: 21090801

September 20, 2021

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

Reference: PSS Project No: **21090801**
Project Name: ACPS IAQ Testing
Project Location: Jefferson Houston
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) **21090801**.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 13, 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.: 21090801

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/08/2021 at 11:11 am

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21090801-001	JH-Reception	AIR	09/07/21 19:21
21090801-002	JH-Hall 116-118	AIR	09/07/21 19:26
21090801-003	JH-Library	AIR	09/07/21 19:30
21090801-004	JH-Hall 140	AIR	09/07/21 19:28
21090801-005	JH-133	AIR	09/07/21 19:32
21090801-006	JH-Multi Purpose	AIR	09/07/21 19:35
21090801-007	JH-Gym	AIR	09/07/21 19:41
21090801-008	JH-Theater	AIR	09/07/21 19:24
21090801-009	JH-201	AIR	09/07/21 19:38
21090801-010	JH-218	AIR	09/07/21 19:35
21090801-011	JH-329	AIR	09/07/21 19:22
21090801-012	JH-Hall 316	AIR	09/07/21 19:25
21090801-013	JH-ELA 3rd Floor	AIR	09/07/21 19:27
21090801-014	JH-Cafe	AIR	09/07/21 19:37
21090801-015	JH-Outdoor	AIR	09/07/21 19:42

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
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800-932-9047
www.phaseonline.com

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21090801

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 17, 2021

Account# 15354

Login# L546137

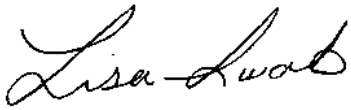
Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on September 09, 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

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

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

Date Sampled : 07-SEP-21 Account No.: 15354
Date Received : 09-SEP-21 Login No. : L546137
Date Analyzed : 16-SEP-21 - 17-SEP-21 Units : ppbv
Report ID : 1265374

Galson ID:	LOQ	L546137-1	L546137-2	L546137-3
Client ID:	ppbv	JH-RECEPTION	JH-HALL 116-118	JH-LIBRARY
Propylene	5.0	<5.0	<5.0	<5.0
Freon-12	0.80	<0.80	<0.80	<0.80
Chloromethane	0.80	<0.80	<0.80	<0.80
Freon-114	0.80	<0.80	<0.80	<0.80
Vinyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Butadiene	0.80	<0.80	<0.80	<0.80
n-Butane	0.80	14	5.0	6.7
Bromomethane	0.80	<0.80	<0.80	<0.80
Chloroethane	0.80	<0.80	<0.80	<0.80
Acetonitrile	5.0	<5.0	<5.0	<5.0
Vinyl Bromide	0.80	<0.80	<0.80	<0.80
Acrolein	0.80	<0.80	<0.80	2.9
Acetone	5.0	20	15	40
Freon-11	0.80	<0.80	<0.80	<0.80
Isopropyl Alcohol	5.0	44	23	26
Acrylonitrile	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
Submitted by : SAP Date : 17-SEP-21

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Galson ID: / Client ID:	LOQ ppbv	L546137-1 JH-RECEPTION	L546137-2 JH-HALL 116-118	L546137-3 JH-LIBRARY
Pentane	0.80	5.4	8.7	22
Ethyl Bromide	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethene	0.80	<0.80	<0.80	<0.80
tert-Butyl Alcohol	5.0	<5.0	<5.0	<5.0
Methylene Chloride	0.80	<0.80	<0.80	<0.80
Freon-113	0.80	<0.80	<0.80	<0.80
Carbon Disulfide	5.0	<5.0	<5.0	<5.0
Allyl Chloride	0.80	<0.80	<0.80	<0.80
trans-1,2-Dichloroethene	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethane	0.80	<0.80	<0.80	<0.80
Methyl tert-Butyl Ether	0.80	<0.80	<0.80	<0.80
Vinyl Acetate	0.80	<0.80	<0.80	0.90
Methyl Ethyl Ketone	0.80	<0.80	<0.80	6.3
cis-1,2-Dichloroethylene	0.80	<0.80	<0.80	<0.80
Hexane	0.80	<0.80	<0.80	<0.80
Ethyl Acetate	0.80	1.1	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
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Galson ID: / Client ID:	LOQ ppbv	L546137-1 JH-RECEPTION	L546137-2 JH-HALL 116-118	L546137-3 JH-LIBRARY
Chloroform	0.80	<0.80	<0.80	<0.80
Tetrahydrofuran	0.80	<0.80	<0.80	<0.80
1,2-Dichloroethane	0.80	<0.80	<0.80	<0.80
1,1,1-Trichloroethane	0.80	<0.80	<0.80	<0.80
Benzene	0.80	<0.80	<0.80	<0.80
Carbon Tetrachloride	0.80	<0.80	<0.80	<0.80
Cyclohexane	0.80	<0.80	<0.80	<0.80
1,2-Dichloropropane	0.80	<0.80	<0.80	<0.80
Bromodichloromethane	0.80	<0.80	<0.80	<0.80
1,4-Dioxane	0.80	<0.80	<0.80	<0.80
Trichloroethylene	0.80	<0.80	<0.80	<0.80
2,2,4-Trimethylpentane	0.80	<0.80	<0.80	<0.80
Methyl Methacrylate	0.80	<0.80	<0.80	<0.80
Heptane	0.80	<0.80	<0.80	<0.80
cis-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80
trans-1,3-Dichloropropen	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
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Galson ID: / Client ID:	LOQ ppbv	L546137-1 JH-RECEPTION	L546137-2 JH-HALL 116-118	L546137-3 JH-LIBRARY
1,1,2-Trichloroethane	0.80	<0.80	<0.80	<0.80
Methyl Isobutyl Ketone	0.80	<0.80	<0.80	<0.80
Toluene	0.80	1.4	<0.80	1.3
Methyl Butyl Ketone	0.80	<0.80	<0.80	2.6
Dibromochloromethane	0.80	<0.80	<0.80	<0.80
1,2-Dibromoethane	0.80	<0.80	<0.80	<0.80
Tetrachloroethylene	0.80	<0.80	<0.80	<0.80
Chlorobenzene	0.80	<0.80	<0.80	<0.80
Ethylbenzene	0.80	<0.80	<0.80	<0.80
m & p-Xylene	1.6	<1.6	<1.6	<1.6
Bromoform	0.80	<0.80	<0.80	<0.80
Styrene	0.80	<0.80	<0.80	<0.80
1,1,2,2-Tetrachloroethan	0.80	<0.80	<0.80	<0.80
o-Xylene	0.80	<0.80	<0.80	<0.80
Nonane	0.80	<0.80	<0.80	<0.80
Cumene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
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Report ID : 1265374

Galson ID: / Client ID:	LOQ ppbv	L546137-1 JH-RECEPTION	L546137-2 JH-HALL 116-118	L546137-3 JH-LIBRARY
2-Chlorotoluene	0.80	<0.80	<0.80	<0.80
n-Propylbenzene	0.80	<0.80	<0.80	<0.80
4-Ethyltoluene	0.80	<0.80	<0.80	<0.80
1,3,5-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
1,2,4-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
Benzyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,4-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,2-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
Naphthalene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
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Galson ID:	LOQ	L546137-4	L546137-5	L546137-6
Client ID:	ppbv	JH-HALL 140	JH-133	JH-MULTI PURPOSE
Propylene	5.0	<5.0	<5.0	<5.0
Freon-12	0.80	<0.80	<0.80	<0.80
Chloromethane	0.80	<0.80	<0.80	<0.80
Freon-114	0.80	<0.80	<0.80	<0.80
Vinyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Butadiene	0.80	<0.80	<0.80	<0.80
n-Butane	0.80	<0.80	<0.80	1.0
Bromomethane	0.80	<0.80	<0.80	<0.80
Chloroethane	0.80	<0.80	<0.80	<0.80
Acetonitrile	5.0	<5.0	<5.0	<5.0
Vinyl Bromide	0.80	<0.80	<0.80	<0.80
Acrolein	0.80	<0.80	<0.80	<0.80
Acetone	5.0	9.0	6.6	11
Freon-11	0.80	<0.80	<0.80	<0.80
Isopropyl Alcohol	5.0	6.2	<5.0	<5.0
Acrylonitrile	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
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Galson ID: / Client ID:	LOQ ppbv	L546137-4 JH-HALL 140	L546137-5 JH-133	L546137-6 JH-MULTI PURPOSE
Pentane	0.80	9.9	2.1	4.7
Ethyl Bromide	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethene	0.80	<0.80	<0.80	<0.80
tert-Butyl Alcohol	5.0	<5.0	<5.0	<5.0
Methylene Chloride	0.80	<0.80	<0.80	<0.80
Freon-113	0.80	<0.80	<0.80	<0.80
Carbon Disulfide	5.0	<5.0	<5.0	<5.0
Allyl Chloride	0.80	<0.80	<0.80	<0.80
trans-1,2-Dichloroethene	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethane	0.80	<0.80	<0.80	<0.80
Methyl tert-Butyl Ether	0.80	<0.80	<0.80	<0.80
Vinyl Acetate	0.80	<0.80	<0.80	<0.80
Methyl Ethyl Ketone	0.80	<0.80	<0.80	<0.80
cis-1,2-Dichloroethylene	0.80	<0.80	<0.80	<0.80
Hexane	0.80	<0.80	<0.80	<0.80
Ethyl Acetate	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
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Galson ID: / Client ID:	LOQ ppbv	L546137-4 JH-HALL 140	L546137-5 JH-133	L546137-6 JH-MULTI PURPOSE
Chloroform	0.80	<0.80	<0.80	<0.80
Tetrahydrofuran	0.80	<0.80	<0.80	<0.80
1,2-Dichloroethane	0.80	<0.80	<0.80	<0.80
1,1,1-Trichloroethane	0.80	<0.80	<0.80	<0.80
Benzene	0.80	<0.80	<0.80	<0.80
Carbon Tetrachloride	0.80	<0.80	<0.80	<0.80
Cyclohexane	0.80	<0.80	<0.80	<0.80
1,2-Dichloropropane	0.80	<0.80	<0.80	<0.80
Bromodichloromethane	0.80	<0.80	<0.80	<0.80
1,4-Dioxane	0.80	<0.80	<0.80	<0.80
Trichloroethylene	0.80	<0.80	<0.80	<0.80
2,2,4-Trimethylpentane	0.80	<0.80	<0.80	<0.80
Methyl Methacrylate	0.80	<0.80	<0.80	<0.80
Heptane	0.80	<0.80	<0.80	<0.80
cis-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80
trans-1,3-Dichloropropen	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
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Galson ID: / Client ID:	LOQ ppbv	L546137-4 JH-HALL 140	L546137-5 JH-133	L546137-6 JH-MULTI PURPOSE
1,1,2-Trichloroethane	0.80	<0.80	<0.80	<0.80
Methyl Isobutyl Ketone	0.80	<0.80	<0.80	<0.80
Toluene	0.80	<0.80	<0.80	1.6
Methyl Butyl Ketone	0.80	<0.80	<0.80	<0.80
Dibromochloromethane	0.80	<0.80	<0.80	<0.80
1,2-Dibromoethane	0.80	<0.80	<0.80	<0.80
Tetrachloroethylene	0.80	<0.80	<0.80	<0.80
Chlorobenzene	0.80	<0.80	<0.80	<0.80
Ethylbenzene	0.80	<0.80	<0.80	<0.80
m & p-Xylene	1.6	<1.6	<1.6	3.5
Bromoform	0.80	<0.80	<0.80	<0.80
Styrene	0.80	<0.80	<0.80	<0.80
1,1,2,2-Tetrachloroethan	0.80	<0.80	<0.80	<0.80
o-Xylene	0.80	<0.80	<0.80	0.80
Nonane	0.80	<0.80	<0.80	<0.80
Cumene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
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Galson ID: / Client ID:	LOQ ppbv	L546137-4 JH-HALL 140	L546137-5 JH-133	L546137-6 JH-MULTI PURPOSE
2-Chlorotoluene	0.80	<0.80	<0.80	<0.80
n-Propylbenzene	0.80	<0.80	<0.80	<0.80
4-Ethyltoluene	0.80	<0.80	<0.80	<0.80
1,3,5-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
1,2,4-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
Benzyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,4-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,2-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
Naphthalene	0.80	<0.80	<0.80	<0.80

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Galson ID: / Client ID:	LOQ ppbv	L546137-7 JH-GYM	L546137-8 JH-THEATER	L546137-9 JH-201
Propylene	5.0	<5.0	<5.0	<5.0
Freon-12	0.80	<0.80	<0.80	<0.80
Chloromethane	0.80	<0.80	<0.80	<0.80
Freon-114	0.80	<0.80	<0.80	<0.80
Vinyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Butadiene	0.80	<0.80	<0.80	<0.80
n-Butane	0.80	<0.80	4.6	2.4
Bromomethane	0.80	<0.80	<0.80	<0.80
Chloroethane	0.80	<0.80	<0.80	<0.80
Acetonitrile	5.0	<5.0	<5.0	<5.0
Vinyl Bromide	0.80	<0.80	<0.80	<0.80
Acrolein	0.80	<0.80	<0.80	<0.80
Acetone	5.0	8.1	15	60
Freon-11	0.80	<0.80	<0.80	<0.80
Isopropyl Alcohol	5.0	<5.0	21	47
Acrylonitrile	0.80	<0.80	<0.80	<0.80

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Galson ID: / Client ID:	LOQ ppbv	L546137-7 JH-GYM	L546137-8 JH-THEATER	L546137-9 JH-201
Pentane	0.80	1.4	11	4.3
Ethyl Bromide	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethene	0.80	<0.80	<0.80	<0.80
tert-Butyl Alcohol	5.0	<5.0	<5.0	<5.0
Methylene Chloride	0.80	<0.80	<0.80	<0.80
Freon-113	0.80	<0.80	<0.80	<0.80
Carbon Disulfide	5.0	<5.0	<5.0	<5.0
Allyl Chloride	0.80	<0.80	<0.80	<0.80
trans-1,2-Dichloroethene	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethane	0.80	<0.80	<0.80	<0.80
Methyl tert-Butyl Ether	0.80	<0.80	<0.80	<0.80
Vinyl Acetate	0.80	<0.80	<0.80	<0.80
Methyl Ethyl Ketone	0.80	<0.80	<0.80	2.9
cis-1,2-Dichloroethylene	0.80	<0.80	<0.80	<0.80
Hexane	0.80	<0.80	<0.80	<0.80
Ethyl Acetate	0.80	<0.80	<0.80	1.1

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
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Date Sampled : 07-SEP-21 Account No.: 15354
Date Received : 09-SEP-21 Login No. : L546137
Date Analyzed : 16-SEP-21 - 17-SEP-21 Units : ppbv
Report ID : 1265374

Galson ID: / Client ID:	LOQ ppbv	L546137-7 JH-GYM	L546137-8 JH-THEATER	L546137-9 JH-201
Chloroform	0.80	<0.80	<0.80	<0.80
Tetrahydrofuran	0.80	<0.80	<0.80	<0.80
1,2-Dichloroethane	0.80	<0.80	<0.80	<0.80
1,1,1-Trichloroethane	0.80	<0.80	<0.80	<0.80
Benzene	0.80	<0.80	<0.80	<0.80
Carbon Tetrachloride	0.80	<0.80	<0.80	<0.80
Cyclohexane	0.80	<0.80	<0.80	<0.80
1,2-Dichloropropane	0.80	<0.80	<0.80	<0.80
Bromodichloromethane	0.80	<0.80	<0.80	<0.80
1,4-Dioxane	0.80	<0.80	<0.80	<0.80
Trichloroethylene	0.80	<0.80	<0.80	<0.80
2,2,4-Trimethylpentane	0.80	<0.80	<0.80	<0.80
Methyl Methacrylate	0.80	<0.80	<0.80	<0.80
Heptane	0.80	<0.80	<0.80	<0.80
cis-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80
trans-1,3-Dichloropropen	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
Submitted by : SAP Date : 17-SEP-21

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

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

Date Sampled : 07-SEP-21 Account No.: 15354
Date Received : 09-SEP-21 Login No. : L546137
Date Analyzed : 16-SEP-21 - 17-SEP-21 Units : ppbv
Report ID : 1265374

Galson ID: / Client ID:	LOQ ppbv	L546137-7 JH-GYM	L546137-8 JH-THEATER	L546137-9 JH-201
1,1,2-Trichloroethane	0.80	<0.80	<0.80	<0.80
Methyl Isobutyl Ketone	0.80	<0.80	<0.80	<0.80
Toluene	0.80	<0.80	2.4	<0.80
Methyl Butyl Ketone	0.80	<0.80	<0.80	<0.80
Dibromochloromethane	0.80	<0.80	<0.80	<0.80
1,2-Dibromoethane	0.80	<0.80	<0.80	<0.80
Tetrachloroethylene	0.80	<0.80	<0.80	<0.80
Chlorobenzene	0.80	<0.80	<0.80	<0.80
Ethylbenzene	0.80	<0.80	<0.80	<0.80
m & p-Xylene	1.6	<1.6	<1.6	<1.6
Bromoform	0.80	<0.80	<0.80	<0.80
Styrene	0.80	<0.80	<0.80	<0.80
1,1,2,2-Tetrachloroethan	0.80	<0.80	<0.80	<0.80
o-Xylene	0.80	<0.80	<0.80	<0.80
Nonane	0.80	<0.80	<0.80	<0.80
Cumene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
Submitted by : SAP Date : 17-SEP-21

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Date Analyzed : 16-SEP-21 - 17-SEP-21 Units : ppbv
Report ID : 1265374

Galson ID: / Client ID:	LOQ ppbv	L546137-7 JH-GYM	L546137-8 JH-THEATER	L546137-9 JH-201
2-Chlorotoluene	0.80	<0.80	<0.80	<0.80
n-Propylbenzene	0.80	<0.80	<0.80	<0.80
4-Ethyltoluene	0.80	<0.80	<0.80	<0.80
1,3,5-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
1,2,4-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
Benzyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,4-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,2-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
Naphthalene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
Submitted by : SAP Date : 17-SEP-21

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Date Sampled : 07-SEP-21 Account No.: 15354
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Date Analyzed : 16-SEP-21 - 17-SEP-21 Units : ppbv
Report ID : 1265374

Galson ID: / Client ID:	LOQ ppbv	L546137-10 JH-218	L546137-11 JH-329	L546137-12 JH-HALL 316
Propylene	5.0	<5.0	<5.0	<5.0
Freon-12	0.80	<0.80	<0.80	<0.80
Chloromethane	0.80	<0.80	<0.80	<0.80
Freon-114	0.80	<0.80	<0.80	<0.80
Vinyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Butadiene	0.80	<0.80	<0.80	<0.80
n-Butane	0.80	9.2	32	4.0
Bromomethane	0.80	<0.80	<0.80	<0.80
Chloroethane	0.80	<0.80	<0.80	<0.80
Acetonitrile	5.0	<5.0	<5.0	<5.0
Vinyl Bromide	0.80	<0.80	<0.80	<0.80
Acrolein	0.80	<0.80	<0.80	<0.80
Acetone	5.0	13	14	9.5
Freon-11	0.80	<0.80	<0.80	<0.80
Isopropyl Alcohol	5.0	48	46	24
Acrylonitrile	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
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Report ID : 1265374

Galson ID: / Client ID:	LOQ ppbv	L546137-10 JH-218	L546137-11 JH-329	L546137-12 JH-HALL 316
Pentane	0.80	9.3	18	6.3
Ethyl Bromide	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethene	0.80	<0.80	<0.80	<0.80
tert-Butyl Alcohol	5.0	<5.0	<5.0	<5.0
Methylene Chloride	0.80	<0.80	<0.80	<0.80
Freon-113	0.80	<0.80	<0.80	<0.80
Carbon Disulfide	5.0	<5.0	<5.0	<5.0
Allyl Chloride	0.80	<0.80	<0.80	<0.80
trans-1,2-Dichloroethene	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethane	0.80	<0.80	<0.80	<0.80
Methyl tert-Butyl Ether	0.80	<0.80	<0.80	<0.80
Vinyl Acetate	0.80	<0.80	<0.80	<0.80
Methyl Ethyl Ketone	0.80	<0.80	<0.80	<0.80
cis-1,2-Dichloroethylene	0.80	<0.80	<0.80	<0.80
Hexane	0.80	<0.80	<0.80	<0.80
Ethyl Acetate	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
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Galson ID: / Client ID:	LOQ ppbv	L546137-10 JH-218	L546137-11 JH-329	L546137-12 JH-HALL 316
Chloroform	0.80	<0.80	<0.80	<0.80
Tetrahydrofuran	0.80	<0.80	<0.80	<0.80
1,2-Dichloroethane	0.80	<0.80	<0.80	<0.80
1,1,1-Trichloroethane	0.80	<0.80	<0.80	<0.80
Benzene	0.80	<0.80	<0.80	<0.80
Carbon Tetrachloride	0.80	<0.80	<0.80	<0.80
Cyclohexane	0.80	<0.80	<0.80	<0.80
1,2-Dichloropropane	0.80	<0.80	<0.80	<0.80
Bromodichloromethane	0.80	<0.80	<0.80	<0.80
1,4-Dioxane	0.80	<0.80	<0.80	<0.80
Trichloroethylene	0.80	<0.80	<0.80	<0.80
2,2,4-Trimethylpentane	0.80	<0.80	<0.80	<0.80
Methyl Methacrylate	0.80	<0.80	<0.80	<0.80
Heptane	0.80	<0.80	<0.80	<0.80
cis-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80
trans-1,3-Dichloropropen	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
Submitted by : SAP Date : 17-SEP-21

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LELAP Lab ID #04083

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Site : JEFFERSON HOUSTON
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Report ID : 1265374

Galson ID: / Client ID:	LOQ ppbv	L546137-10 JH-218	L546137-11 JH-329	L546137-12 JH-HALL 316
1,1,2-Trichloroethane	0.80	<0.80	<0.80	<0.80
Methyl Isobutyl Ketone	0.80	<0.80	<0.80	<0.80
Toluene	0.80	<0.80	<0.80	0.80
Methyl Butyl Ketone	0.80	<0.80	<0.80	<0.80
Dibromochloromethane	0.80	<0.80	<0.80	<0.80
1,2-Dibromoethane	0.80	<0.80	<0.80	<0.80
Tetrachloroethylene	0.80	<0.80	<0.80	<0.80
Chlorobenzene	0.80	<0.80	<0.80	<0.80
Ethylbenzene	0.80	<0.80	<0.80	<0.80
m & p-Xylene	1.6	<1.6	<1.6	<1.6
Bromoform	0.80	<0.80	<0.80	<0.80
Styrene	0.80	<0.80	<0.80	<0.80
1,1,2,2-Tetrachloroethan	0.80	<0.80	<0.80	<0.80
o-Xylene	0.80	<0.80	<0.80	<0.80
Nonane	0.80	<0.80	<0.80	<0.80
Cumene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
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Date Received : 09-SEP-21 Login No. : L546137
Date Analyzed : 16-SEP-21 - 17-SEP-21 Units : ppbv
Report ID : 1265374

Galson ID: / Client ID:	LOQ ppbv	L546137-10 JH-218	L546137-11 JH-329	L546137-12 JH-HALL 316
2-Chlorotoluene	0.80	<0.80	<0.80	<0.80
n-Propylbenzene	0.80	<0.80	<0.80	<0.80
4-Ethyltoluene	0.80	<0.80	<0.80	<0.80
1,3,5-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
1,2,4-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
Benzyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,4-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,2-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
Naphthalene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
Submitted by : SAP Date : 17-SEP-21

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

Date Sampled : 07-SEP-21 Account No.: 15354
Date Received : 09-SEP-21 Login No. : L546137
Date Analyzed : 16-SEP-21 - 17-SEP-21 Units : ppbv
Report ID : 1265374

Galson ID: / Client ID:	LOQ ppbv	L546137-13 JH-ELA 3RD FLOOR	L546137-14 JH-CAFE	L546137-15 JH-OUTDOOR
Propylene	5.0	<5.0	<5.0	<5.0
Freon-12	0.80	<0.80	<0.80	<0.80
Chloromethane	0.80	<0.80	<0.80	<0.80
Freon-114	0.80	<0.80	<0.80	<0.80
Vinyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Butadiene	0.80	<0.80	<0.80	<0.80
n-Butane	0.80	0.80	4.1	<0.80
Bromomethane	0.80	<0.80	<0.80	<0.80
Chloroethane	0.80	<0.80	<0.80	<0.80
Acetonitrile	5.0	<5.0	<5.0	<5.0
Vinyl Bromide	0.80	<0.80	<0.80	<0.80
Acrolein	0.80	<0.80	<0.80	<0.80
Acetone	5.0	7.3	15	5.2
Freon-11	0.80	<0.80	<0.80	<0.80
Isopropyl Alcohol	5.0	17	34	<5.0
Acrylonitrile	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
Submitted by : SAP Date : 17-SEP-21

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LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc.
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Date Received : 09-SEP-21 Login No. : L546137
Date Analyzed : 16-SEP-21 - 17-SEP-21 Units : ppbv
Report ID : 1265374

Galson ID:	LOQ	L546137-13	L546137-14	L546137-15
Client ID:	ppbv	JH-ELA 3RD FLOOR	JH-CAFE	JH-OUTDOOR
Pentane	0.80	3.3	6.4	<0.80
Ethyl Bromide	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethene	0.80	<0.80	<0.80	<0.80
tert-Butyl Alcohol	5.0	<5.0	<5.0	<5.0
Methylene Chloride	0.80	<0.80	<0.80	<0.80
Freon-113	0.80	<0.80	<0.80	<0.80
Carbon Disulfide	5.0	<5.0	<5.0	<5.0
Allyl Chloride	0.80	<0.80	<0.80	<0.80
trans-1,2-Dichloroethene	0.80	<0.80	<0.80	<0.80
1,1-Dichloroethane	0.80	<0.80	<0.80	<0.80
Methyl tert-Butyl Ether	0.80	<0.80	<0.80	<0.80
Vinyl Acetate	0.80	<0.80	<0.80	<0.80
Methyl Ethyl Ketone	0.80	<0.80	<0.80	<0.80
cis-1,2-Dichloroethylene	0.80	<0.80	<0.80	<0.80
Hexane	0.80	<0.80	<0.80	<0.80
Ethyl Acetate	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
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Date Sampled : 07-SEP-21 Account No.: 15354
Date Received : 09-SEP-21 Login No. : L546137
Date Analyzed : 16-SEP-21 - 17-SEP-21 Units : ppbv
Report ID : 1265374

Galson ID:	LOQ	L546137-13	L546137-14	L546137-15
Client ID:	ppbv	JH-ELA 3RD FLOOR	JH-CAFE	JH-OUTDOOR
Chloroform	0.80	<0.80	<0.80	<0.80
Tetrahydrofuran	0.80	<0.80	<0.80	<0.80
1,2-Dichloroethane	0.80	<0.80	<0.80	<0.80
1,1,1-Trichloroethane	0.80	<0.80	<0.80	<0.80
Benzene	0.80	<0.80	<0.80	<0.80
Carbon Tetrachloride	0.80	<0.80	<0.80	<0.80
Cyclohexane	0.80	<0.80	<0.80	<0.80
1,2-Dichloropropane	0.80	<0.80	<0.80	<0.80
Bromodichloromethane	0.80	<0.80	<0.80	<0.80
1,4-Dioxane	0.80	<0.80	<0.80	<0.80
Trichloroethylene	0.80	<0.80	<0.80	<0.80
2,2,4-Trimethylpentane	0.80	<0.80	<0.80	<0.80
Methyl Methacrylate	0.80	<0.80	<0.80	<0.80
Heptane	0.80	<0.80	<0.80	<0.80
cis-1,3-Dichloropropene	0.80	<0.80	<0.80	<0.80
trans-1,3-Dichloropropen	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
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Date Sampled : 07-SEP-21 Account No.: 15354
Date Received : 09-SEP-21 Login No. : L546137
Date Analyzed : 16-SEP-21 - 17-SEP-21 Units : ppbv
Report ID : 1265374

Galson ID:	LOQ	L546137-13	L546137-14	L546137-15
Client ID:	ppbv	JH-ELA 3RD FLOOR	JH-CAFE	JH-OUTDOOR
1,1,2-Trichloroethane	0.80	<0.80	<0.80	<0.80
Methyl Isobutyl Ketone	0.80	<0.80	<0.80	<0.80
Toluene	0.80	0.90	2.5	<0.80
Methyl Butyl Ketone	0.80	<0.80	<0.80	<0.80
Dibromochloromethane	0.80	<0.80	<0.80	<0.80
1,2-Dibromoethane	0.80	<0.80	<0.80	<0.80
Tetrachloroethylene	0.80	<0.80	<0.80	<0.80
Chlorobenzene	0.80	<0.80	<0.80	<0.80
Ethylbenzene	0.80	<0.80	<0.80	<0.80
m & p-Xylene	1.6	<1.6	<1.6	<1.6
Bromoform	0.80	<0.80	<0.80	<0.80
Styrene	0.80	<0.80	<0.80	<0.80
1,1,2,2-Tetrachloroethan	0.80	<0.80	<0.80	<0.80
o-Xylene	0.80	<0.80	<0.80	<0.80
Nonane	0.80	<0.80	<0.80	<0.80
Cumene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
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Report ID : 1265374

Galson ID: / Client ID:	LOQ ppbv	L546137-13 JH-ELA 3RD FLOOR	L546137-14 JH-CAFE	L546137-15 JH-OUTDOOR
2-Chlorotoluene	0.80	<0.80	<0.80	<0.80
n-Propylbenzene	0.80	<0.80	<0.80	<0.80
4-Ethyltoluene	0.80	<0.80	<0.80	<0.80
1,3,5-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
1,2,4-Trimethylbenzene	0.80	<0.80	<0.80	<0.80
Benzyl Chloride	0.80	<0.80	<0.80	<0.80
1,3-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,4-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
1,2-Dichlorobenzene	0.80	<0.80	<0.80	<0.80
Naphthalene	0.80	<0.80	<0.80	<0.80

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
Submitted by : SAP Date : 17-SEP-21

GALSON

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

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

Date Sampled : 07-SEP-21 Account No.: 15354
Date Received: 09-SEP-21 Login No. : L546137
Date Analyzed: 16-SEP-21 - 17-SEP-21

L546137 (Report ID: 1265374):
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)

L546137-3,6,8,13-14 (Report ID: 1265374):
Sample canisters were received at/near ambient pressure.

L546137 (Report ID: 1265374):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
1,1,2,2-Tetrachloroethane	+/-13.1%	102%
1,1,2-Trichloroethane	+/-10.9%	101%
1,1-Dichloroethane	+/-13.1%	99.7%
1,1-Dichloroethene	+/-13.5%	102%
1,2,4-Trimethylbenzene	+/-14.6%	108%
1,2-Dibromoethane	+/-12.9%	103%
1,2-Dichlorobenzene	+/-12.2%	105%
1,2-Dichloroethane	+/-14.9%	102%
1,2-Dichloropropane	+/-13.1%	99.7%
1,3,5-Trimethylbenzene	+/-13.1%	105%
1,3-Dichlorobenzene	+/-12.3%	104%
1,4-Dichlorobenzene	+/-13.6%	104%
2,2,4-Trimethylpentane	+/-13.9%	102%
2-Chlorotoluene	+/-13.1%	105%
4-Ethyltoluene	+/-14%	106%
Acrolein	+/-21.8%	93.1%
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%

GALSON

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

Date Sampled : 07-SEP-21 Account No.: 15354
Date Received: 09-SEP-21 Login No. : L546137
Date Analyzed: 16-SEP-21 - 17-SEP-21

Carbon Tetrachloride	+/-13.4%	104%
cis-1,2-Dichloroethylene	+/-13.7%	101%
cis-1,3-Dichloropropene	+/-13.2%	104%
Chlorobenzene	+/-12.4%	100%
Dibromochloromethane	+/-12.9%	105%
Chloroform	+/-11.8%	100%
Cumene	+/-13.1%	104%
Cyclohexane	+/-14.5%	101%
1,4-Dioxane	+/-13.3%	104%
Ethyl Acetate	+/-16.2%	102%
Ethylbenzene	+/-14%	104%
Chloroethane	+/-19.3%	99.3%
Ethyl Bromide	+/-11.2%	100%
Freon-11	+/-16.7%	103%
Freon-113	+/-11.3%	99.9%
Freon-114	+/-14.3%	102%
Freon-12	+/-14.8%	104%
Heptane	+/-16.2%	102%
Isopropyl Alcohol	+/-15.4%	103%
1,1,1-Trichloroethane	+/-13.1%	103%
Bromomethane	+/-12.7%	99.2%
Chloromethane	+/-17.5%	98.6%
Methylene Chloride	+/-12.3%	97.6%
Methyl Ethyl Ketone	+/-15.9%	101%
Methyl Methacrylate	+/-15.2%	104%
Methyl Isobutyl Ketone	+/-18.1%	103%
Methyl Butyl Ketone	+/-18.8%	107%
m & p-Xylene	+/-13.2%	103%
Methyl tert-Butyl Ether	+/-14.6%	102%
Naphthalene	+/-20.2%	111%
Hexane	+/-15.2%	100%
Nonane	+/-17.9%	104%
n-Propylbenzene	+/-12.6%	105%
o-Xylene	+/-13.2%	104%
Propylene	+/-16.8%	101%
Pentane	+/-18.7%	99.1%
Styrene	+/-14.8%	106%
Trichloroethylene	+/-11.1%	102%
tert-Butyl Alcohol	+/-16.4%	104%
Tetrachloroethylene	+/-12%	102%
Tetrahydrofuran	+/-18.7%	102%
Toluene	+/-14.3%	102%
trans-1,2-Dichloroethene	+/-13.8%	101%
trans-1,3-Dichloropropene	+/-13.7%	106%
Vinyl Acetate	+/-17.1%	102%

GALSON

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

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

Date Sampled : 07-SEP-21 Account No.: 15354
Date Received: 09-SEP-21 Login No. : L546137
Date Analyzed: 16-SEP-21 - 17-SEP-21

Vinyl Bromide	+/-14.5%	102%
Vinyl Chloride	+/-15.2%	100%

1Z2313E40165226029
Date:09/09/21
Shipper:UPS
Initials:MAK

Prep:UNKNOWN

N

L546137

Tel: (315) 432-5227
888-432-LABS (5227)

www.sgsgalson.com

☐ New Client?

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

Client Account No.*:

Phone No.* : 410-747-8770
Cell No. :
Email Results to : Amber Confer
Email address: reporting@phaseonline.com

Invoice To* : Phase Separation Science

Phone No.: 410-747-8770
Email : invoicing@phaseonline.com
P.O. No. :
Credit Card : ☐ Card on File ☐ Call for Credit 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 : Jefferson Houston Project : City of Alexandria Sampled by : Client

Comments :

wire call

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	all SK 9/9/21 Collection Medium mini cans	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.)*
JH-Reception	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
JH-Hall 116-118	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
JH-Library	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
JH-Hall 140	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
JH-133	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
JH-Multi Purpose	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
JH- Gym	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
JH- Theater	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
JH- 201	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
JH-218	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
JH-329	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	

^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 :	[signature]	9/8/21		Received by :			
Relinquished by :				Received by :	Michelle Krause Michelle Krause	9/9/21	1055

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

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 : Jefferson Houston Project : City of Alexandria Sampled by : Client

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.)*
JH-Hall 316	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
JH-ELA 3rd Floor	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
JH-Cafe	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
JH-Outdoor	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/07/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	

^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 :	Amber Confer	9/8/21		Received by :			
Relinquished by :				Received by :	Michelle Krause Michelle Krause	9/9/21	1058

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 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. : **21090801**
Project Location : Jefferson Houston
Project Number : 4920002
Report To LOD : No

Report Due On :09/16/21 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
21090801-001	JH-Reception	09/07/21	19:21	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-002	JH-Hall 116-118	09/07/21	19:26	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-003	JH-Library	09/07/21	19:30	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-004	JH-Hall 140	09/07/21	19:28	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-005	JH-133	09/07/21	19:32	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-006	JH-Multi Purpose	09/07/21	19:35	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-007	JH-Gym	09/07/21	19:41	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-008	JH-Theater	09/07/21	19:24	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-009	JH-201	09/07/21	19:38	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-010	JH-218	09/07/21	19:35	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-011	JH-329	09/07/21	19:22	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-012	JH-Hall 316	09/07/21	19:25	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-013	JH-ELA 3rd Floor	09/07/21	19:27	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-014	JH-Cafe	09/07/21	19:37	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090801-015	JH-Outdoor	09/07/21	19:42	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON

Data Deliverables Required: COA

Perform Q.C. on Sample : _____

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: _____ Carrier : UPS

Condition Upon Receipt : _____

Comments : 2 boxes

Samples Relinquished By : [signature] Date : 9/8/21 Time: _____ Samples Received By : _____

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

Samples Relinquished By: _____ Date: _____ Time: _____ Samples Received By: Michelle Krause Michelle Krause 9/9/21 1058

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21090801

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 take upon receipt. Pressures will be taken by subcontractor.

21090801: 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.

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

ANALYTICAL CHEMISTRY • ENVIRONMENTAL SCIENCE • PSS

PHASE SEPARATION SCIENCE, INC.

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

(1)

*CLIENT: Total Environmental Concepts, Inc.	*OFFICE LOC.: Lorton
*PROJECT MGR: Karl Ford	
EMAIL: kford@teci.pro	*PHONE NO: (703) 567-4346
*PROJECT NAME: ACPS IAQ testing	PROJECT NO.: 4920002
SITE LOCATION: Jefferson Houston	P.O. NO.:
SAMPLER(S): Margaret, Victoria, Channing	

PSS Work Order #: 21090801

PAGE 1 OF 2

(2) (3)

LAB #	*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	JH - Reception	9/7/21	15:10	9/7/21	19:21	1377	04476	30+	5		☐	☐	☑	☐	
2	JH - Hall ~~11b - 11B~~ 6 8 on 9/8/21	9/7/21	15:27	9/7/21	19:26	~~00252~~ WA5944	~~00252~~ 7471 on 9/8/21	40	10		☐	☐	☑	☐	
3	JH - Library	9/7/21	15:36	9/7/21	19:30	1393	04464	30+	4		☐	☐	☑	☐	
4	JH - Hall 140	9/7/21	15:20	9/7/21	19:28	1376	10138	30	4		☐	☐	☑	☐	
5	JH - 133	9/7/21	15:24	9/7/21	19:32	00334	04388	30+	1		☐	☐	☑	☐	
6	JH - Multi Purpose	9/7/21	15:30	9/7/21	19:35	01219	10736	30+	9		☐	☐	☑	☐	
7	JH - Gym	9/7/21	15:34	9/7/21	19:41	00387	06819	30+	4		☐	☐	☑	☐	
8	JH - Theater	9/7/21	15:11	9/7/21	19:24	1341	64323	27	1		☐	☐	☑	☐	
9	JH - 201	9/7/21	15:53	9/7/21	19:38	1514	04305	30	5		☐	☐	☑	☐	
10	JH - 218	9/7/21	15:47	9/7/21	19:35	00333	WR326	30+	5		☐	☐	☑	☐	

(5)

Relinquished By	Date	Time	Received By
(1) Channing Jackson	9/7/21	20:30	Ted [signature]
(2) Ted [signature]	9/8/21	11:11	[signature]
(3)			
(4)			

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

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

Shipping Carrier: Client

Data Deliverables Required:

Special Instructions:

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

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

(1)
*CLIENT: Total Environmental Concepts, Inc. *OFFICE LOC.: Lorton
*PROJECT MGR: Karl Ford
EMAIL: kford@teci.pro *PHONE NO: (703) 567-4346
*PROJECT NAME: ACPS IAQ testing PROJECT NO.: 4920002
SITE LOCATION: Jefferson Houston P.O. NO.:
SAMPLER(S): Margaret, Victoria, Channing

PSS Work Order #: 21090801

PAGE 2 OF 2

(2) (3)

LAB #	*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
01	JH - 329	9/7/21	15:14	9/7/21	19:22	965	11470	29	7		☐	☐	✔	☐	
02	JH - Hall 316	9/7/21	15:20	9/7/21	19:25	1498	10721	30+	7		☐	☐	✔	☐	
03	JH - ELA 3rd Floor	9/7/21	15:25	9/7/21	19:27	WA602	WR512	30	0		☐	☐	✔	☐	
04	JH - Cafe	9/7/21	15:35	9/7/21	19:37	WA058	4631	30+	4		☐	☐	✔	☐	
05	JH - Outdoor	9/7/21	15:41	9/7/21	19:42	WA943	6051	30+	9		☐	☐	✔	☐	
											☐	☐	☐	☐	
											☐	☐	☐	☐	
											☐	☐	☐	☐	
											☐	☐	☐	☐	
											☐	☐	☐	☐	

(5)

Relinquished By: (1)	Date	Time	Received By:
Channing Jackson	9/7/21	8:30	
Relinquished By: (2)	Date	Time	Received By:
	9/8/21	11:11	
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: Client

Data Deliverables Required:

Special Instructions:

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.: 21090801

Client Name Total Environmental Concepts - Lorto
Disposal Date 10/13/2021

Received By Thomas Wingate
Date Received 09/08/2021 11:11:00 AM
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 Margaret, Victoria, Channing
COC agrees with sample labels? Yes
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.

Soil gas/indoor air not indicated on COC; samples are indoor air.
Incoming pressures not take upon receipt. Pressures will be taken by subcontractor.

Samples Inspected/Checklist Completed By: Amber F Confer — Date: 09/08/2021
Amber Confer

PM Review and Approval: NYL Jackson — Date: 09/08/2021
Lynnae Jackson

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

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

(1)

*CLIENT: Total Environmental Concepts, Inc. *OFFICE LOC.: Lorton

*PROJECT MGR: Karl Ford

EMAIL: kford@teci.pro *PHONE NO: (703) 567-4346

*PROJECT NAME: ACPS IAQ testing PROJECT NO.: 4920002

SITE LOCATION: Jefferson Houston P.O. NO.:

SAMPLER(S): Margaret, Victoria, Channing

PSS Work Order #:

PAGE 1 OF 2

(2)

LAB #	*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
	JH - Reception	9/7/21	15:10	9/7/21	19:21	1377	04476	30+	5		☐	☐	☑	☐	
	JH - Hall 11b - 11B	9/7/21	15:27	9/7/21	19:26	00252	00252	40	10		☐	☐	☑	☐	
	JH - Library	9/7/21	15:36	9/7/21	19:30	1393	04464	30+	4		☐	☐	☑	☐	
	JH - Hall 140	9/7/21	15:20	9/7/21	19:28	1376	10138	30	4		☐	☐	☑	☐	
	JH - 133	9/7/21	15:24	9/7/21	19:32	00334	04388	30+	1		☐	☐	☑	☐	
	JH - Multi Purpose	9/7/21	15:30	9/7/21	19:35	01219	10736	30+	9		☐	☐	☑	☐	
	JH - Gym	9/7/21	15:34	9/7/21	19:41	00387	06819	30+	4		☐	☐	☑	☐	
	JH - Theater	9/7/21	15:11	9/7/21	19:24	1341	64323	27	1		☐	☐	☑	☐	
	JH - 201	9/7/21	15:53	9/7/21	19:38	1514	04305	30	5		☐	☐	☑	☐	
	JH - 218	9/7/21	15:47	9/7/21	19:35	00333	WR326	30+	5		☐	☐	☑	☐	

(5)

Relinquished By: (1)	Date	Time	Received By:
Channing Jackson	9/7/21	20:30	
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:

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

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

(1)

*CLIENT: Total Environmental Concepts, Inc. *OFFICE LOC.: Lorton

*PROJECT MGR: Karl Ford

EMAIL: kford@teci.pro *PHONE NO: (703) 567-4346

*PROJECT NAME: ACPS IAQ testing PROJECT NO.: 4920002

SITE LOCATION: Jefferson Houston P.O. NO.:

SAMPLER(S): Margaret, Victoria, Channing

PSS Work Order #:

PAGE 1 OF 2

(2)

LAB #	*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
	JH - Reception	9/7/21	15:10	9/7/21	19:21	1377	04476	30+	5		☐	☐	✔	☐	
	JH - Hall 11b - 11B	9/7/21	15:27	9/7/21	19:26	00252	00252	40	10		☐	☐	✔	☐	
	JH - Library	9/7/21	15:36	9/7/21	19:30	1393	04464	30+	4		☐	☐	✔	☐	
	JH - Hall 140	9/7/21	15:20	9/7/21	19:28	1376	10138	30	4		☐	☐	✔	☐	
	JH - 133	9/7/21	15:24	9/7/21	19:32	00334	04388	30+	1		☐	☐	✔	☐	
	JH - Multi Purpose	9/7/21	15:30	9/7/21	19:35	01219	10736	30+	9		☐	☐	✔	☐	
	JH - Gym	9/7/21	15:34	9/7/21	19:41	00387	06819	30+	4		☐	☐	✔	☐	
	JH - Theater	9/7/21	15:11	9/7/21	19:24	1341	64323	27	1		☐	☐	✔	☐	
	JH - 201	9/7/21	15:53	9/7/21	19:38	1514	04305	30	5		☐	☐	✔	☐	
	JH - 218	9/7/21	15:47	9/7/21	19:35	00333	WR326	30+	5		☐	☐	✔	☐	

(5)

Relinquished By: (1)	Date	Time	Received By:
Channing Jackson	9/7/21	20:30	
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:

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Appendix D: Formaldehyde Analytical Results

PHASE SEPARATION SCIENCE

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410-747-8770
800-932-9047
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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21091317

September 21, 2021

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

Reference: PSS Project No: **21091317**
Project Name: ACPS IAQ Testing
Project Location: Jefferson Houston
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) **21091317**.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 18, 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.: 21091317

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/13/2021 at 12:42 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21091317-001	JH- Reception	AIR	09/08/21 00:00
21091317-002	JH- Hall 116-118	AIR	09/08/21 00:00
21091317-003	JH- Library	AIR	09/08/21 00:00
21091317-004	JH- Theater	AIR	09/08/21 00:00
21091317-005	JH- Hall 140	AIR	09/08/21 00:00
21091317-006	JH- 133	AIR	09/08/21 00:00
21091317-007	JH- Multi Purpose	AIR	09/08/21 00:00
21091317-008	JH- Gym	AIR	09/08/21 00:00
21091317-009	JH- Cafe	AIR	09/08/21 00:00
21091317-010	JH- 201	AIR	09/08/21 00:00
21091317-011	JH- 218	AIR	09/08/21 00:00
21091317-012	JH- 329	AIR	09/08/21 00:00
21091317-013	JH- Hall 316	AIR	09/08/21 00:00
21091317-014	JH- ELA 3rd Floor	AIR	09/08/21 00:00
21091317-015	JH- Exit Stair 300	AIR	09/08/21 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.: 21091317

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 21, 2021

Account# 15354

Login# L546491

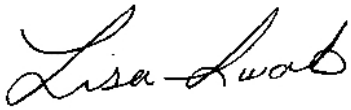
Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on September 14, 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 : JEFFERSON HOUSTON Login No. : L546491
Project No. : ACPS IAQ TESTING - 4920002
Date Sampled : 08-SEP-21 Date Analyzed : 15-SEP-21
Date Received : 14-SEP-21 Report ID : 1265197

Formaldehyde

Sample ID	Lab ID	Time minutes	Total ug	Conc mg/m3	ppm
JH - RECEPTION	L546491-1	251	<0.4	<0.01	<0.01
JH - HALL 116-118	L546491-2	239	<0.4	<0.01	<0.01
JH - LIBRARY	L546491-3	234	<0.4	<0.01	<0.01
JH - THEATER	L546491-4	253	<0.4	<0.01	<0.01
JH - HALL 140	L546491-5	248	<0.4	<0.01	<0.01
JH - 133	L546491-6	248	<0.4	<0.01	<0.01
JH - MULTI PURPOSE	L546491-7	245	<0.4	<0.01	<0.01
JH - GYM	L546491-8	247	<0.4	<0.01	<0.01
JH - CAFE	L546491-9	242	<0.4	<0.01	<0.01
JH - 201	L546491-10	222	<0.4	<0.02	<0.01
JH - 218	L546491-11	231	<0.4	<0.01	<0.01
JH - 329	L546491-12	248	<0.4	<0.01	<0.01
JH - HALL 316	L546491-13	245	<0.4	<0.01	<0.01
JH - ELA 3RD FLOOR	L546491-14	242	<0.4	<0.01	<0.01
JH - EXIT STAIR 300	L546491-15	240	<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 : 21-SEP-21
Supervisor : MWJ

Approved by: NKP

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

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

Date Sampled : 08-SEP-21 Account No.: 15354
Date Received: 14-SEP-21 Login No. : L546491
Date Analyzed: 15-SEP-21

L546491 (Report ID: 1265197):
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)

L546491 (Report ID: 1265197):
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%

L5460491 21691317

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 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 : Jefferson Houston 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.)*
JH - Reception	09/08/21	Assay N581 Aldehyde Badge	251	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4788
JH - Hall 116-118	09/08/21	Assay N581 Aldehyde Badge	239	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4838
JH - Library	09/08/21	Assay N581 Aldehyde Badge	234	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5308
JH - Theater	09/08/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5066
JH - Hall 140	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5312
JH - 133	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4774
JH - Mutli Purpose	09/08/21	Assay N581 Aldehyde Badge	245	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4103
JH - Gym	09/08/21	Assay N581 Aldehyde Badge	247	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5314
JH - Cafe	09/08/21	Assay N581 Aldehyde Badge	242	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4556
JH - 201	09/08/21	Assay N581 Aldehyde Badge	222	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4759
JH - 218	09/08/21	Assay N581 Aldehyde Badge	231	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4425

^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 :	Channing Jackson	09/08/21	13:30	Received by :			
Relinquished by :	Ted Krans	9/13/21	1248	Received by :		9/13/21	1242

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.

Michelle Krause Michelle Krause 9/14/21 0940

21091317

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 : 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.)*
JH - 329	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4023
JH - Hall 316	09/08/21	Assay N581 Aldehyde Badge	245	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4584
JH - ELA 3rd Floor	09/08/21	Assay N581 Aldehyde Badge	242	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4730
JH - Exit Stair 300	09/08/21	Assay N581 Aldehyde Badge	240	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4236

^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

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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 :	Channing Jackson	09/08/21	13:30	Received by :			
Relinquished by :	Ted Kraus	9/13/21	12:48	Received by :		9/13/21	1242

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 2 of 2

Michelle Krause 9/14/21 0940

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. : **21091317**
Project Location : Jefferson Houston
Project Number : 4920002
Report To LOD : No

Report Due On :09/21/21 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

42-43

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
								581 all SL 9/14/21
21091317-001	JH- Reception	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-002	JH- Hall 116-118	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-003	JH- Library	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-004	JH- Theater	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-005	JH- Hall 140	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-006	JH- 133	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-007	JH- Multi Purpose	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-008	JH- Gym	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-009	JH- Cafe	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-010	JH- 201	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-011	JH- 218	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-012	JH- 329	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-013	JH- Hall 316	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-014	JH- ELA 3rd Floor	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091317-015	JH- Exit Stair 300	09/08/21	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 : _____

1Z2313E40166036170
Date:09/14/21
Shipper:UPS
Initials:MAK
Prep:UNKNOWN

Samples Relinquished By : [signature] Date : 9/13/21 Time: _____ Samples Received By : _____

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

Samples Relinquished By: _____ Date: _____ Time: _____ Samples Received By: Michelle Krause 9/14/21 0940

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21091317

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:

All sample receipt conditions were acceptable.

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

21691317

SGS GALSON

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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 : Jefferson Houston 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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JH - Hall 116-118	09/08/21	Assay N581 Aldehyde Badge	239	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4838
JH - Library	09/08/21	Assay N581 Aldehyde Badge	234	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5308
JH - Theater	09/08/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5066
JH - Hall 140	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5312
JH - 133	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4774
JH - Mutli Purpose	09/08/21	Assay N581 Aldehyde Badge	245	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4103
JH - Gym	09/08/21	Assay N581 Aldehyde Badge	247	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5314
JH - Cafe	09/08/21	Assay N581 Aldehyde Badge	242	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4556
JH - 201	09/08/21	Assay N581 Aldehyde Badge	222	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4759
JH - 218	09/08/21	Assay N581 Aldehyde Badge	231	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4425

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Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	09/08/21	13:30	Received by :			
Relinquished by :	Ted Kraus	9/13/21	1248	Received by :		9/13/21	1242

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.

2109317

SGS GALSON

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East Syracuse, NY 13057
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Baltimore, MD 21228

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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 : 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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JH - Hall 316	09/08/21	Assay N581 Aldehyde Badge	245	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4584
JH - ELA 3rd Floor	09/08/21	Assay N581 Aldehyde Badge	242	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4730
JH - Exit Stair 300	09/08/21	Assay N581 Aldehyde Badge	240	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4236

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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 2 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.: 21091317

Client Name	Total Environmental Concepts - Lortc	**Received By**	Amber Confer
Disposal Date	10/18/2021	**Date Received**	09/13/2021 12:42:00 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
		Sampler Name	Karl Ford
Documentation		MD DW Cert. No.	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

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.

Samples Inspected/Checklist Completed By: Amber F Confer — Date: 09/13/2021
Amber Confer

PM Review and Approval: N L Jackson — Date: 09/13/2021
Lynn Jackson

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Site Name : Jefferson Houston Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

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

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JH - Library	09/08/21	Assay N581 Aldehyde Badge	234	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5308
JH - Theater	09/08/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5066
JH - Hall 140	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5312
JH - 133	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4774
JH - Mutli Purpose	09/08/21	Assay N581 Aldehyde Badge	245	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4103
JH - Gym	09/08/21	Assay N581 Aldehyde Badge	247	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5314
JH - Cafe	09/08/21	Assay N581 Aldehyde Badge	242	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4556
JH - 201	09/08/21	Assay N581 Aldehyde Badge	222	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4759
JH - 218	09/08/21	Assay N581 Aldehyde Badge	231	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4425

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JH - 133	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4774
JH - Mutli Purpose	09/08/21	Assay N581 Aldehyde Badge	245	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4103
JH - Gym	09/08/21	Assay N581 Aldehyde Badge	247	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5314
JH - Cafe	09/08/21	Assay N581 Aldehyde Badge	242	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4556
JH - 201	09/08/21	Assay N581 Aldehyde Badge	222	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4759
JH - 218	09/08/21	Assay N581 Aldehyde Badge	231	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4425

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Relinquished by :				Received by :			

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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.: 21091312

September 21, 2021

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

Reference: PSS Project No: **21091312**
Project Name: ACPS IAQ Testing
Project Location: Jefferson Houston
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) **21091312**.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 18, 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.: 21091312

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/13/2021 at 12:42 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21091312-001	JH Reception	AIR	09/07/21 00:00
21091312-002	JH Hall 116-118	AIR	09/07/21 00:00
21091312-003	JH Library	AIR	09/07/21 00:00
21091312-004	JH Theater	AIR	09/07/21 00:00
21091312-005	JH Hall 140	AIR	09/07/21 00:00
21091312-006	JH 133	AIR	09/07/21 00:00
21091312-007	JH Multi Purpose	AIR	09/07/21 00:00
21091312-008	JH Gym	AIR	09/07/21 00:00
21091312-009	JH Cafe	AIR	09/07/21 00:00
21091312-010	JH 201	AIR	09/07/21 00:00
21091312-011	JH 218	AIR	09/07/21 00:00
21091312-012	JH 329	AIR	09/07/21 00:00
21091312-013	JH Hall 316	AIR	09/07/21 00:00
21091312-014	JH ELA 3rd Floor	AIR	09/07/21 00:00
21091312-015	JH Exit Stair 300	AIR	09/07/21 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
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410-747-8770
800-932-9047
www.phaseonline.com

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21091312

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 21, 2021

Account# 15354

Login# L546489

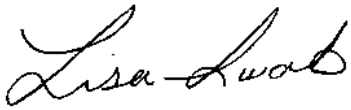
Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on September 14, 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 : JEFFERSON HOUSTON Login No. : L546489
Project No. : ACPS IAQ TESTING-4920002
Date Sampled : 07-SEP-21 Date Analyzed : 15-SEP-21 - 16-SEP-21
Date Received : 14-SEP-21 Report ID : 1265458

4-Phenylcyclohexene (4PCH low LOQ)

Sample ID	Lab ID	Air Vol liter	Front ug	Back ug	Total ug	Conc mg/m3	ppm
JH RECEPTION	L546489-1	50.2	<0.2	<0.2	<0.2	<0.004	<0.0006
JH HALL 116-118	L546489-2	47.8	<0.2	<0.2	<0.2	<0.004	<0.0007
JH LIBRARY	L546489-3	46.8	<0.2	<0.2	<0.2	<0.004	<0.0007
JH THEATER	L546489-4	50.6	<0.2	<0.2	<0.2	<0.004	<0.0006
JH HALL 140	L546489-5	49.6	<0.2	<0.2	<0.2	<0.004	<0.0006
JH 133	L546489-6	49.6	<0.2	<0.2	<0.2	<0.004	<0.0006
JH MULTI PURPOSE	L546489-7	49	<0.2	<0.2	<0.2	<0.004	<0.0007
JH GYM	L546489-8	49.4	<0.2	<0.2	<0.2	<0.004	<0.0006
JH CAFE	L546489-9	48.4	<0.2	<0.2	<0.2	<0.004	<0.0007
JH 201	L546489-10	44.4	<0.2	<0.2	<0.2	<0.005	<0.0007
JH 218	L546489-11	46.2	<0.2	<0.2	<0.2	<0.004	<0.0007
JH 329	L546489-12	49.6	<0.2	<0.2	<0.2	<0.004	<0.0006
JH HALL 316	L546489-13	49	<0.2	<0.2	<0.2	<0.004	<0.0007
JH ELA 3RD FLOOR	L546489-14	48.4	<0.2	<0.2	<0.2	<0.004	<0.0007
JH EXIT STAIR 300	L546489-15	48	<0.2	<0.2	<0.2	<0.004	<0.0007

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

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

Submitted by: ECB
Date : 20-SEP-21
Supervisor : KAG

Approved by: MLN

GALSON

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

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

Date Sampled : 07-SEP-21 Account No.: 15354
Date Received: 14-SEP-21 Login No. : L546489
Date Analyzed: 15-SEP-21 - 16-SEP-21

L546489 (Report ID: 1265458):
Total ug corrected for a desorption efficiency of 97%.
SOPs: GC-SOP-16(26), GC-SOP-8(27), GC-SOP-12(20)

L546489 (Report ID: 1265458):
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%

1Z2313E40165206989
Date:09/14/21
Shipper:UPS
Initials:BGF
Prep:UNKNOWN

1546489 21091312

☐ 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.: 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

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90

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: Jefferson Houston Project: ACPS IAQ testing - 4920002 Sampled by: Karl Ford

Comments:

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

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

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

Sample Identification* (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.)*
JH Reception	09/07/21	Sm Charcoal tubes / 226-01	50.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Hall 116 - 118	09/07/21	Sm Charcoal tubes / 226-01	47.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Library	09/07/21	Sm Charcoal tubes / 226-01	46.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Theater	09/07/21	Sm Charcoal tubes / 226-01	50.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Hall 140	09/07/21	Sm Charcoal tubes / 226-01	49.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH 133	09/07/21	Sm Charcoal tubes / 226-01	49.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Multi Purpose	09/07/21	Sm Charcoal tubes / 226-01	49	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Gym	09/07/21	Sm Charcoal tubes / 226-01	49.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Cafe	09/07/21	Sm Charcoal tubes / 226-01	48.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH 201	09/07/21	Sm Charcoal tubes / 226-01	44.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH 218	09/07/21	Sm Charcoal tubes / 226-01	46.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	

^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:	Channing Jackson	9/5/21	19:00	Received by:			
Relinquished by:	Ted Kraus	9/13/21	1245	Received by:	Anthony Cobb	9/13/21	1242

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.

Brett Grenert-Fischer Brett Grenert-Fischer 9/14/21
6944

21091312

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

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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.

☑ 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 : Jefferson Houston Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

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

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

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

Sample Identification* (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.)*
JH 329	09/07/21	Sm Charcoal tubes / 226-01	49.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Hall 316	09/07/21	Sm Charcoal tubes / 226-01	49	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH ELA 3rd Floor	09/07/21	Sm Charcoal tubes / 226-01	48.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Exit Stair 300	09/07/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	

^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 :	Channing Jackson	9/8/21	19:00	Received by :			
Relinquished by :	Ted Kraus	9/13/21	1245	Received by :	[signature]	9/13/21	1242

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 samples being processed.

Page 2 of 2

Brett Grenert-Fischler Brett Grenert-Fischer 9/14/21 0944

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. : **21091312**
Project Location : Jefferson Houston
Project Number : 4920002
Report To LOD : No

Report Due On :09/21/21 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
21091312-001	JH Reception	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-002	JH Hall 116-118	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-003	JH Library	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-004	JH Theater	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-005	JH Hall 140	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-006	JH 133	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-007	JH Multi Purpose	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-008	JH Gym	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-009	JH Cafe	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-010	JH 201	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-011	JH 218	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-012	JH 329	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-013	JH Hall 316	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-014	JH ELA 3rd Floor	09/07/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091312-015	JH Exit Stair 300	09/07/21	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 : 9/13/21 Time: _____ Samples Received By : Brett Grenert-Fischer Brett Grenert-Fischer 9/14/21 0944

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.: 21091312

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:

All sample receipt conditions were acceptable.

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

21091312

SGS GALSON

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

www.sgsgalson.com

☐ 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.

☑ 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: Jefferson Houston Project: ACPS IAQ testing - 4920002 Sampled by: Karl Ford

Comments:

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

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

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

Sample Identification* (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.)*
JH Reception	09/07/21	Sm Charcoal tubes / 226-01	50.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Hall 116 - 118	09/07/21	Sm Charcoal tubes / 226-01	47.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Library	09/07/21	Sm Charcoal tubes / 226-01	46.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Theater	09/07/21	Sm Charcoal tubes / 226-01	50.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Hall 140	09/07/21	Sm Charcoal tubes / 226-01	49.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH 133	09/07/21	Sm Charcoal tubes / 226-01	49.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Multi Purpose	09/07/21	Sm Charcoal tubes / 226-01	49	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Gym	09/07/21	Sm Charcoal tubes / 226-01	49.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Cafe	09/07/21	Sm Charcoal tubes / 226-01	48.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH 201	09/07/21	Sm Charcoal tubes / 226-01	44.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH 218	09/07/21	Sm Charcoal tubes / 226-01	46.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	

^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:	Channing Jackson	9/8/21	19:00	Received by:			
Relinquished by:	Ted Kraus	9/13/21	1245	Received by:	[illegible]	9/13/21	1242

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.

21091312

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 : Jefferson Houston Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

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

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

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

Sample Identification* (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.)*
JH 329	09/07/21	Sm Charcoal tubes / 226-01	49.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Hall 316	09/07/21	Sm Charcoal tubes / 226-01	49	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH ELA 3rd Floor	09/07/21	Sm Charcoal tubes / 226-01	48.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
JH Exit Stair 300	09/07/21	Sm Charcoal tubes / 226-01	48	L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	
		Sm Charcoal tubes / 226-01		L	4-Phenylcyclohexene	mod. NIOSH 1501	

^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 :	Channing Jackson	9/8/21	19:00	Received by :			
Relinquished by :	Ted Kraus	9/13/21	1245	Received by :	Amber Confer	9/13/21	1242

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 2 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.: 21091312

Client Name	Total Environmental Concepts - Lortc	**Received By**	Amber Confer
Disposal Date	10/18/2021	**Date Received**	09/13/2021 12:42:00 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
		Sampler Name	Karl Ford
Documentation		MD DW Cert. No.	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

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.

Samples Inspected/Checklist Completed By: Amber Confer — Date: 09/13/2021

Amber Confer

PM Review and Approval: Lynn Jackson — Date: 09/13/2021

Lynn 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 : Jefferson Houston 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.)*
JH - Reception	09/08/21	Assay N581 Aldehyde Badge	251	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4788
JH - Hall 116-118	09/08/21	Assay N581 Aldehyde Badge	239	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4838
JH - Library	09/08/21	Assay N581 Aldehyde Badge	234	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5308
JH - Theater	09/08/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5066
JH - Hall 140	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5312
JH - 133	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4774
JH - Mutli Purpose	09/08/21	Assay N581 Aldehyde Badge	245	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4103
JH - Gym	09/08/21	Assay N581 Aldehyde Badge	247	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5314
JH - Cafe	09/08/21	Assay N581 Aldehyde Badge	242	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4556
JH - 201	09/08/21	Assay N581 Aldehyde Badge	222	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4759
JH - 218	09/08/21	Assay N581 Aldehyde Badge	231	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4425

^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 :	Channing Jackson	09/08/21	13:30	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

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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)
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☐ 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 : Jefferson Houston 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 :
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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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JH - Hall 116-118	09/08/21	Assay N581 Aldehyde Badge	239	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4838
JH - Library	09/08/21	Assay N581 Aldehyde Badge	234	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5308
JH - Theater	09/08/21	Assay N581 Aldehyde Badge	253	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5066
JH - Hall 140	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5312
JH - 133	09/08/21	Assay N581 Aldehyde Badge	248	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4774
JH - Mutli Purpose	09/08/21	Assay N581 Aldehyde Badge	245	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4103
JH - Gym	09/08/21	Assay N581 Aldehyde Badge	247	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5314
JH - Cafe	09/08/21	Assay N581 Aldehyde Badge	242	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4556
JH - 201	09/08/21	Assay N581 Aldehyde Badge	222	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4759
JH - 218	09/08/21	Assay N581 Aldehyde Badge	231	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4425

^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

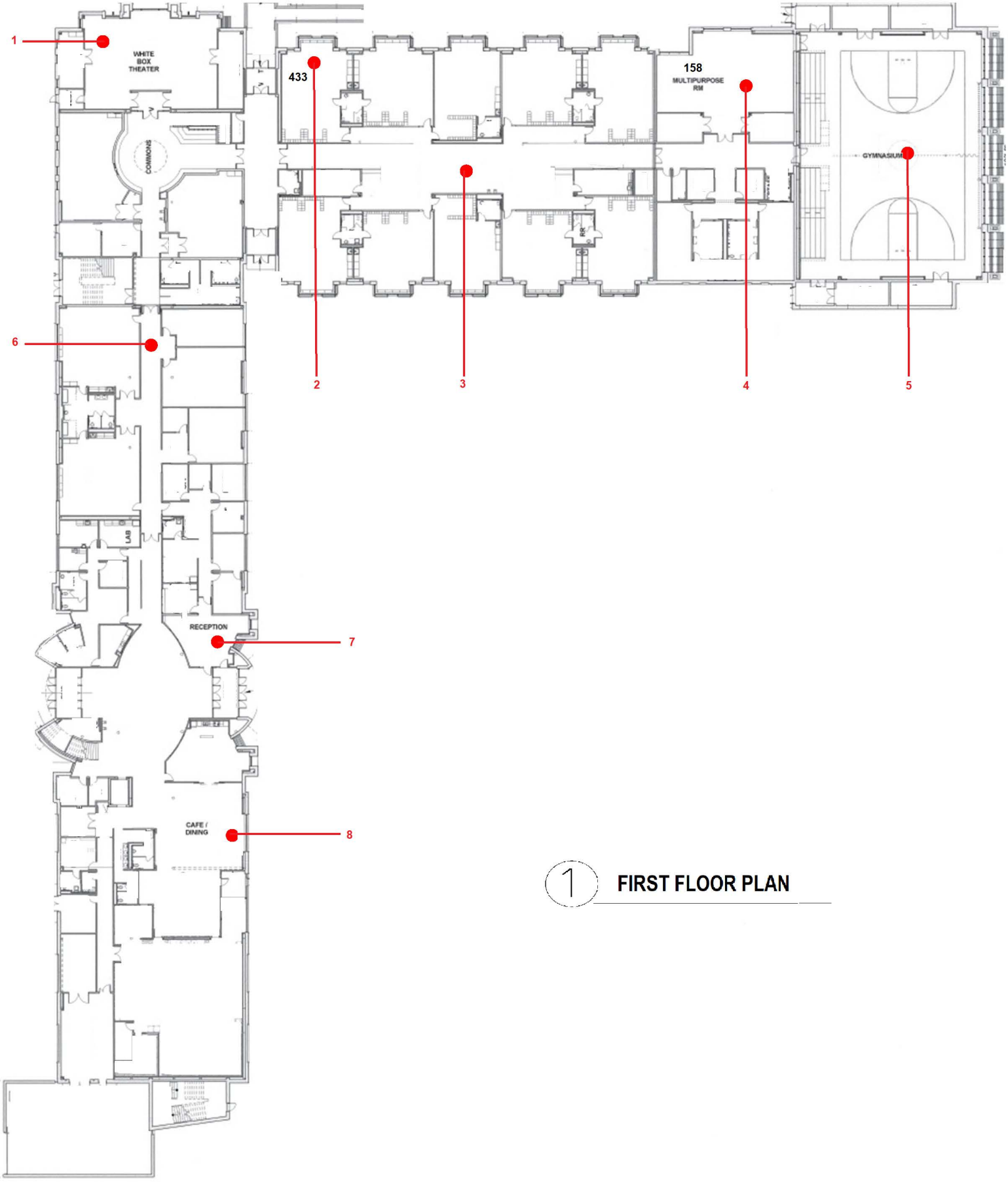
For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

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 :	Channing Jackson	09/08/21	13:30	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



1 FIRST FLOOR PLAN

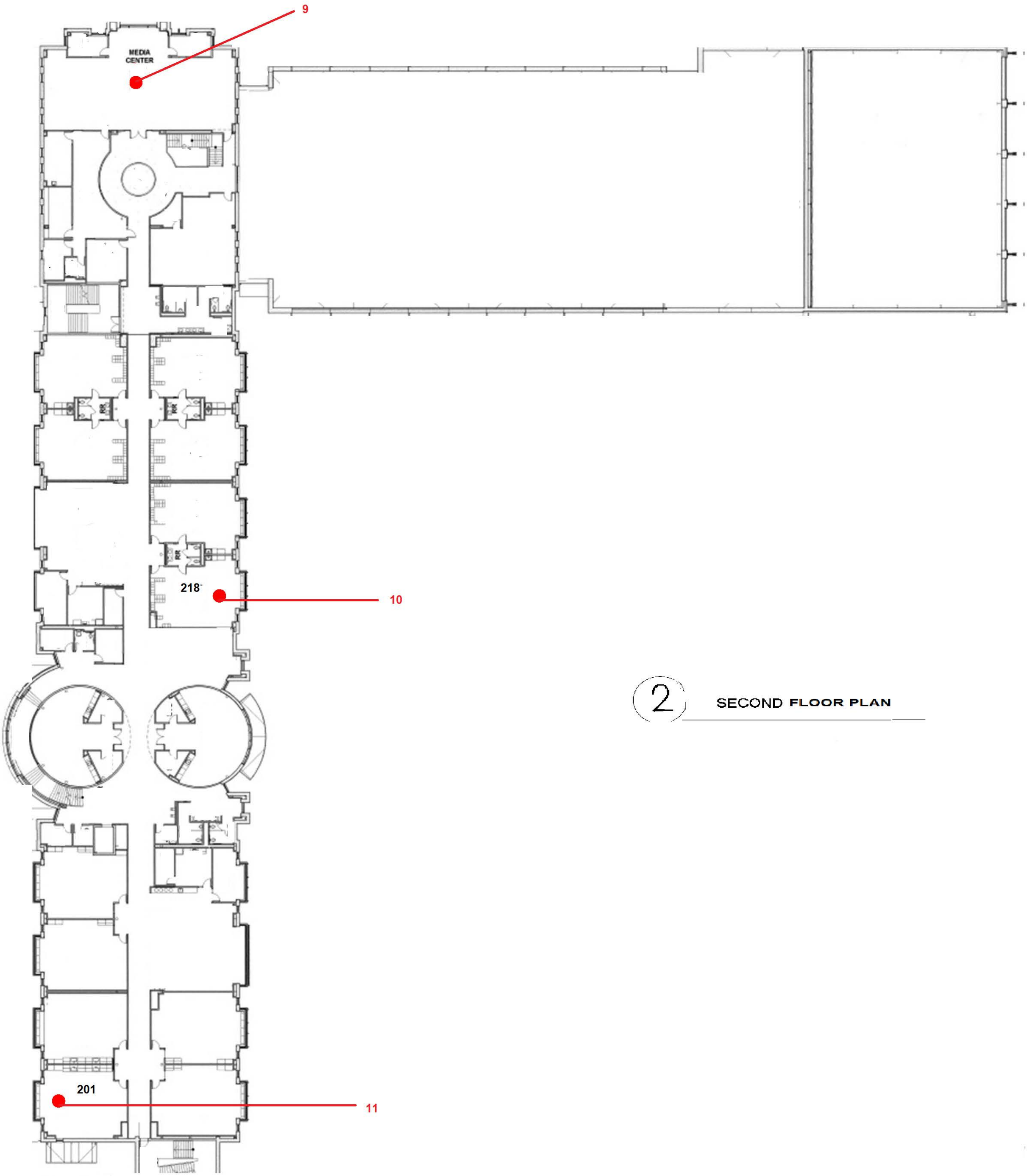
Jefferson – Houston PreK – 8 School

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

1501 Cameron Street
Alexandria, Virginia 22314

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

Figure 1



2 SECOND FLOOR PLAN

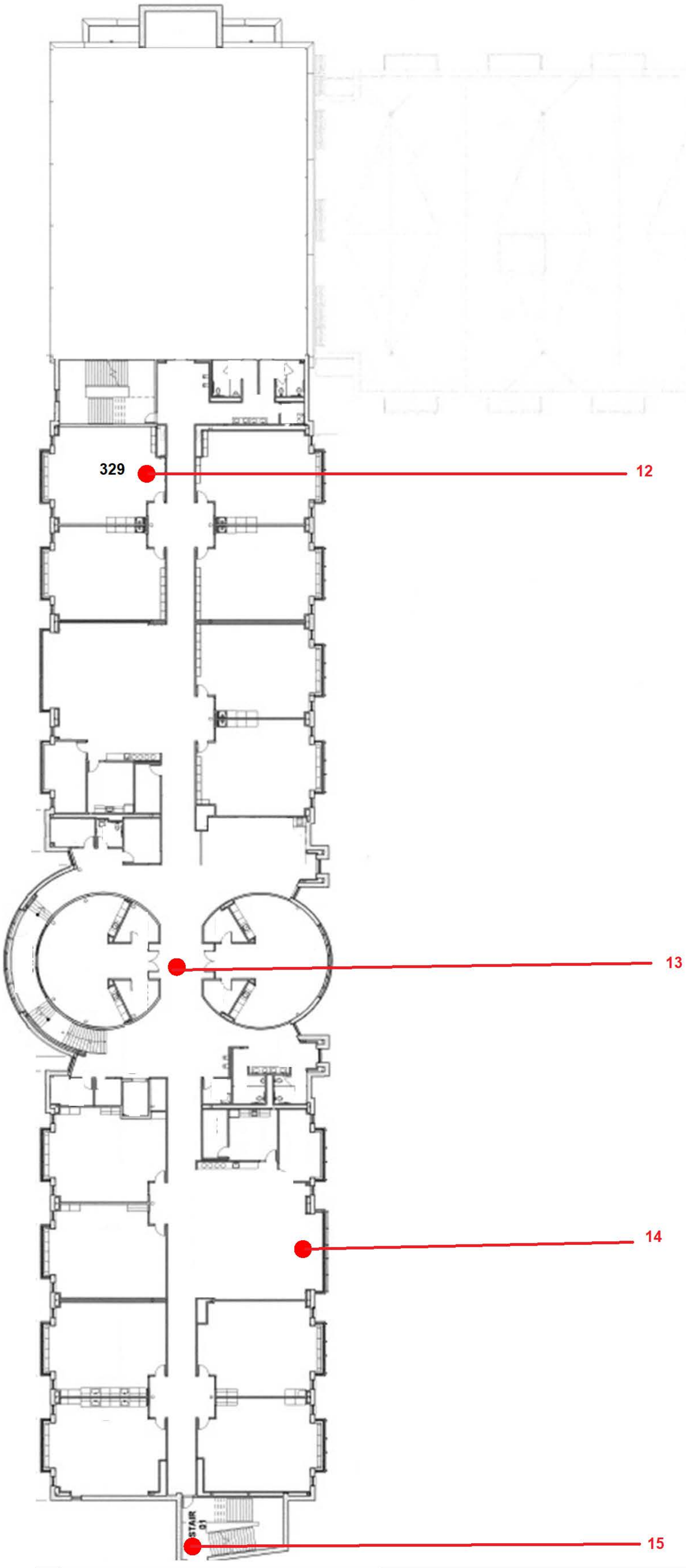
Jefferson – Houston PreK – 8 School

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

1501 Cameron Street
Alexandria, Virginia 22314

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

Figure 2



3 THIRD FLOOR PLAN

Jefferson – Houston PreK – 8 School

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

1501 Cameron Street
Alexandria, Virginia 22314

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

Figure 3

Appendix G: Photographs

Jefferson Houston, Library

Jefferson Houston, Cafeteria

Jefferson Houston, Lobby

Jefferson Houston, Classroom

Jefferson Houston, Gym

Jefferson Houston, Hallway