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

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

INDOOR AIR QUALITY ASSESSMENT REPORT

at

LYLES-CROUCH ELEMENTARY SCHOOL

530 S St Asaph St,
Alexandria, VA 22314

Report Prepared for:

John Contreras

Alexandria City Public Schools

2601 Cameron Mills Rd, Alexandria, VA 22302

Dated: October 6, 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 Elementary School (PH)
- Mount Vernon Community School (MV)

This IAQ assessment was conducted at Lyles Crouch Elementary School on Wednesday, September 1, 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 Lyles Crouch Elementary School to obtain a baseline of the number and types of fungal spores in the air. This baseline was compared to the spores collected inside at the sampling locations since inside spore counts above baseline could indicate internal sources of mold.

  Findings:

  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 Lyles Crouch Elementary School were indicative of mold issues.

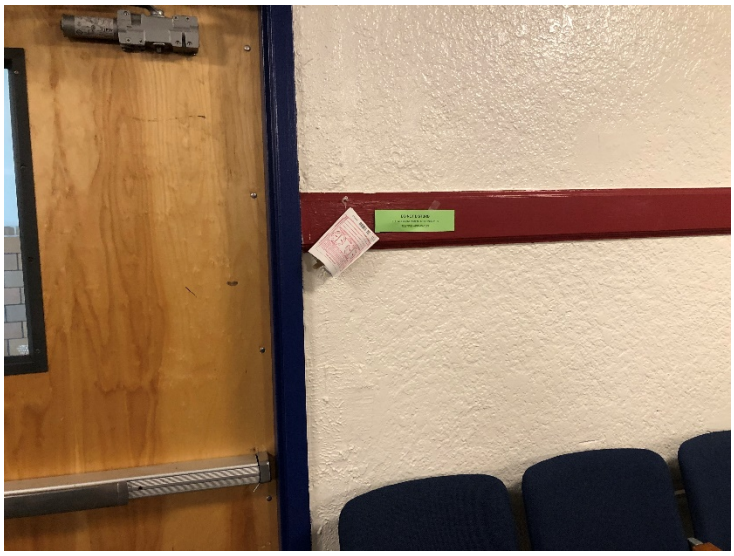
- **Radon** – levels recorded in all locations were less than 4pCi/L, as recommended by EPA and HUD.
- **VOCs** – The levels of volatile organic compounds (VOCs) recorded in at each location were within acceptable ranges compared to EPA Regional Screening Levels (RSLs).
- **4-PCH** – levels recorded 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 1, 2021. All air samples were collected three-six feet from floor level, the typical breathing zone for adults.

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

Radon gas samples were collected by securing Air Chek Radon Test Kits (photograph below). Samples were collected within the breathing zone (4-6ft from ground level) at each sample location. In accordance with Air Chek's Radon Test Kit Instructions, kits were secured to walls inside the building and away from open windows, doors to the outside, or interior air ventilation systems. 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 1, 2021	Visual Observations
Main Office	The main office of Lyles Crouch located on the second floor.	

Multi-Purpose	The multi-purpose room in Lyles Crouch functions as both a gymnasium and an auditorium.	
Main Lobby	The Main Lobby of Lyles Crouch.	

Hallway by Classroom 215	View of the Hallway by classroom 215.	

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 Lyles Crouch 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
Lobby	0.0	0.0	20.9	0.0
Library	0.0	0.0	20.9	0.0
111	0.0	0.0	20.9	0.0
Hall 111	0.0	0.0	20.9	0.0
Multi-Purpose	0.0	0.0	20.9	0.0
106	0.0	0.0	20.9	0.0
001	0.0	0.0	20.9	0.0
010	0.0	0.0	20.9	0.0
Cafeteria	0.0	0.0	20.9	0.0
114	0.0	0.0	20.9	0.0
211	0.0	0.0	20.9	0.0
Hall 214	0.0	0.0	20.9	0.0
206	0.0	0.0	20.9	0.0
200	0.0	0.0	20.9	0.0

Table 2

Results of Analytes by Location						
Location	Radon	Mold		TO+15 VOCs	4PCH	Formaldehyde
		AVG: 77 F	AVG: 51%			
Reception Office	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Lobby	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Library	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
111	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hall 111	< 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
106	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
001	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
010	< 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
114	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
211	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hall 214	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
206	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
200	< 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

#21033474

Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road
Suite B
Lorton, VA 22079

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

Lyles Crouch

Collected: **September 1, 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

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8382 Terminal Road Suite B
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Lyles Crouch

#21033474

Spore Trap
SOP - HMC#101

Sample Number	1	LC 4315144		2	LC43158150		3	LC4315149		4	LC43115154	
Sample Name	**LC Gym**			**LC 111**			**LC 106**			**LC 114**		
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			1			1			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%	1	13	50.0%				2	27	66.7%
Aspergillus|Penicillium												
Basidiospores				1	13	50.0%	1	13	100.0%	1	13	33.3%
Bipolaris|Drechslera												
Chaetomium												
Cladosporium												
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Cercospora												
Total	1	13	100%	2	26	100%	1	13	100%	3	40	100%

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

Collected: **Sep 1, 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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Lyles Crouch

#21033474

Spore Trap

SOP - HMC#101

Sample Number	5	LC4311555		6	LC4315152		7	LC4315152		8	LC43115167	
Sample Name	LC Hall 117			LC Library			LC 200			LC 206		
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			13/m^3		
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	100.0%	3	40	75.0%	1	13	50.0%	1	13	50.0%
Aspergillus|Penicillium												
Basidiospores				1	13	25.0%						
Bipolaris|Drechslera												
Chaetomium												
Cladosporium							1	13	50.0%	1	13	50.0%
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Cercospora												
Total	2	27	100%	4	53	100%	2	26	100%	2	26	100%

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

Collected: **Sep 1, 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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Lyles Crouch

#21033474

Spore Trap

SOP - HMC#101

Sample Number	9	LC4315140		10	LC4315151		11	LC4315153		12	LC4315148	
Sample Name	LC 211			LC Hall 207			LC 010			LC Cafe		
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			13/m³			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	4	53	57.1%	1	13	33.3%	2	27	100.0%	1	13	100.0%
Aspergillus|Penicillium												
Basidiospores	3	40	42.9%	2	27	66.7%						
Bipolaris|Drechslera												
Chaetomium												
Cladosporium												
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Cercospora												
Total	7	93	100%	3	40	100%	2	27	100%	1	13	100%

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

Collected: **Sep 1, 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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Lyles Crouch

#21033474

Spore Trap
SOP - HMC#101

Sample Number	13	LC4315147		14	LC4315145		15	LC4315161		16	LC4315162	
Sample Name	**LC Outside**			**LC 001**			**LC Lobby**			**LC Office**		
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	1	13	<1%									
Ascospores	132	1760	59.5%	2	27	66.7%	1	13	100.0%	2	27	66.7%
Aspergillus|Penicillium	2	27	<1%									
Basidiospores	74	987	33.3%	1	13	33.3%				1	13	33.3%
Bipolaris|Drechslera												
Chaetomium												
Cladosporium	10	133	4.5%									
Curvularia	1	13	<1%									
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Cercospora	2	27	<1%									
Total	222	2960	100%	3	40	100%	1	13	100%	3	40	100%

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

Collected: **Sep 1, 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

Lyles Crouch

#21033474

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.

Cercospora

Habitat: Found on wood and decaying plant matter.

Effects: Health effects are poorly studied.

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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Lyles Crouch

#21033474

Organism Descriptions

Curvularia

Habitat: They exist in soil and plant debris, and are plant pathogens.

Effects: They are allergenic and a common cause of allergic fungal sinusitis. An occasional cause of human infection, including keratitis, sinusitis, onychomycosis, mycetoma, pneumonia, endocarditis and desseminated infection, primarily in the immunocompromised.

Total Environmental Concepts, Inc.

Placement Tech	Victoria P	Sample Type	mold
Placement Date	9/1/21	Email	kford@teci.pro
Address	Lyles crouch		

Sample #	Location/ room	Flow Rate	Sampling Time	Pump Start Time	Pump End Time	Comments
~~[illegible]~~	~~[illegible]~~ library			~~[illegible]~~		
LC 4315144	LC gym	10 L/m	7.5 m	1632	1640	
LC 4315150	LC 111			1634	1641	
LC 4315149	LC 106			1642	1649	
LC 4315154	LC 114			1645	1653	
LC 4315155	LC hall 117			1650	1657	
LC 4315156	LC library			1620	1628	
LC 4315152	LC 200			1632	1639	
LC 4315167	LC 206			1642	1650	
LC 4315140	LC 211			1703	1711	
LC 4315151	LC hall 207			1654	1701	
LC 4315153	LC 010			1633	1640	
LC 4315148	LC cafe			1628	1636	
LC 4315147	LC outside			1618	1626	
LC 4315145	LC 001			1622	1629	
LC 4315161	LC lobby			1646	1654	
LC 4315162	LC office			1659	1706	

Appendix B: Radon Analytical Results

Attention:

Kit #: 9723755 Result: ????
Location:
Travel Blank

,

Analysis Note : MI
Analyzed : 2021-09-17 at 10:00 am
Started : 0000-00-00 at
Ended : 2021-09-16 at 3:00 pm
Hours/MST% : 0 hours 6.0% 70°F

Kit #: 9723756 Result: < 0.3 pCi/l
Location:
Lc 211

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 8.9% 70°F

Kit #: 9723768 Result: < 0.3 pCi/l
Location:
Lc200

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 8.1% 70°F

Kit #: 9723772 Result: < 0.3 pCi/l
Location:
Lchall215

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 11.2% 70°F

Kit #: 9723773 Result: < 0.3 pCi/l
Location:
Lc - 001

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 11.6% 70°F

Kit #: 9723781 Result: < 0.3 pCi/l
Location:
Lc 206

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 7.5% 70°F

Attention:

Kit #: 9731141 Result: < 0.3 pCi/l
Location:
Lc Multi Purpose - 1

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 8.8% 70°F

Kit #: 9731137 Result: < 0.3 pCi/l
Location:
Lc Media Center 1

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 9.6% 70°F

Kit #: 9731142 Result: < 0.3 pCi/l
Location:
Lc Hall 111-110

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 8.8% 70°F

Kit #: 9731145 Result: < 0.3 pCi/l
Location:
Lc Media Center -2

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 8.9% 70°F

Kit #: 9731146 Result: < 0.3 pCi/l
Location:
Lc - 106-B

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 5.3% 70°F

Kit #: 9731166 Result: < 0.3 pCi/l
Location:
Lc 114

',

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 8.9% 70°F

Attention:

Kit #: 9731149 Result: < 0.3 pCi/l Location: Lc 106 Class ,	Analysis Note : Analyzed : 2021-09-11 at 11:00 am Started : 2021-09-07 at 3:00 pm Ended : 2021-09-10 at 4:00 pm Hours/MST% : 73 hours 10.9% 70°F
Kit #: 9731150 Result: < 0.3 pCi/l Location: Lc 106 Class D ,	Analysis Note : Analyzed : 2021-09-11 at 11:00 am Started : 2021-09-07 at 5:00 pm Ended : 2021-09-10 at 4:00 pm Hours/MST% : 71 hours 10.9% 70°F
Kit #: 9731151 Result: < 0.3 pCi/l Location: Lc 111 Room D ,	Analysis Note : Analyzed : 2021-09-11 at 11:00 am Started : 2021-09-07 at 5:00 pm Ended : 2021-09-10 at 4:00 pm Hours/MST% : 71 hours 8.9% 70°F
Kit #: 9731167 Result: < 0.3 pCi/l Location: Lc Office ,	Analysis Note : Analyzed : 2021-09-11 at 11:00 am Started : 2021-09-07 at 5:00 pm Ended : 2021-09-10 at 4:00 pm Hours/MST% : 71 hours 8.9% 70°F
Kit #: 9731153 Result: < 0.3 pCi/l Location: Lc Lobby ,	Analysis Note : Analyzed : 2021-09-11 at 11:00 am Started : 2021-09-07 at 5:00 pm Ended : 2021-09-10 at 4:00 pm Hours/MST% : 71 hours 8.9% 70°F
Kit #: 9731174 Result: < 0.3 pCi/l Location: Lc Multi Purpose 2 ,	Analysis Note : Analyzed : 2021-09-11 at 11:00 am Started : 2021-09-07 at 5:00 pm Ended : 2021-09-10 at 4:00 pm Hours/MST% : 71 hours 8.8% 70°F

Attention:

Kit #: 9731155 Result: < 0.3 pCi/l
Location:
Lc Cafe 2

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 9.7% 70°F

Kit #: 9731157 Result: < 0.3 pCi/l
Location:
Lc 010

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 9.7% 70°F

Kit #: 9731158 Result: < 0.3 pCi/l
Location:
Lc Cafe 1

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 9.7% 70°F

Kit #: 9731159 Result: < 0.3 pCi/l
Location:
Lc 111 Room

,

Analysis Note :
Analyzed : 2021-09-11 at 11:00 am
Started : 2021-09-07 at 5:00 pm
Ended : 2021-09-10 at 4:00 pm
Hours/MST% : 71 hours 9.7% 70°F

Lyles- Crouch

Total Environmental Concepts, Inc.

Placement Tech	TEC Techs	Sample Type	Radon	Pickup Tech	
Placement Date	9/7/21	Sample Media		Pickup Date	
Address				Email	

Sample #	Location/ room	SQFT >2000	HVAC Y/N	Window Y/N	Fan Y/N	Time In	Time out	Comment
LC9731167	LC - Office		Y	Y	N	5:15		
LC 9731153	LC - Lobby		N	Y	N	5:17		
LC 9731137	LC - Media center-1		Y	Y	N	5:21		
LC9731145	LC - Media Center-2		Y	Y	N	5:21		
LC9731159	LC - 111 ROOM		Y	Y	N	5:25		
LC9731151 D	LC - 111 ROOM - D		Y	Y	N	5:25		
LC 9731142	LC - Hall - 111 - 110		Y	N	N	5:27		
LC 9731174	LC - Multipurpose - 2		Y	Y	N	5:32		
LC9731141	LC - Multi Purpose-1		Y	Y	N	5:32		
LC9731146 B	LC - 106 - B		Y	Y	N	5:38		
LC9731150 D	LC - 106 - D		Y	Y	N	5:38		
LC 9731149	LC - 106 Class		Y	Y	N	5:38		
LC 9723773	LC - 001 Class		Y	Y	N	5:13		
LC 9731157	LC - 010 Class		Y	Y	N	5:18		
LC 9731158	LC - Cafe1		Y	Y	N	5:25		
LC 9731155	LC - Cafe2		Y	Y	N	5:27		
LC 9731166	LC - 114		Y	Y	Y	5:10		
LC 9723756	LC - 211		Y	Y	N	513		
LC 9723772	LC - hall 214		N	N	N	514		
LC 9723781	LC - 206		Y	Y	N	514		
LC 9723768	LC - 200		Y	Y	N	516		
LC								
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Appendix C: VOCs (TO+15) Analytical Results

PHASE SEPARATION SCIENCE

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

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21090318

September 22, 2021

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

Reference: PSS Project No: **21090318**
Project Name: ACPS IAQ Testing
Project Location: Lyles Crouch ES
Project ID.: 4920002

Dear Karl Ford:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s)**21090318**. This report has been revised to report results in ug/m^3, per client. The sample results are not impacted by this revision. This report cancels and supersedes report version 1.000 dated September 16, 2021.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 7, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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

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

Sincerely,

Dan Prucnal
Laboratory Manager

PHASE SEPARATION SCIENCE

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

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21090318

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/02/2021 at 05:15 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21090318-001	LC-Class 001	AIR	09/01/21 18:45
21090318-002	LC-Cafe	AIR	09/01/21 18:41
21090318-003	LC-Class 010	AIR	09/01/21 18:39
21090318-004	LC-Class 114	AIR	09/01/21 18:48
21090318-005	LC-Class 111	AIR	09/01/21 18:51
21090318-006	LC-Class 117	AIR	09/01/21 18:52
21090318-007	LC-Multi	AIR	09/01/21 18:56
21090318-008	LC-Class 106	AIR	09/01/21 19:08
21090318-009	LC-Media	AIR	09/01/21 18:54
21090318-010	LC-Entrance	AIR	09/01/21 18:58
21090318-011	LC-Office	AIR	09/01/21 19:09
21090318-012	LC-Class 200	AIR	09/01/21 19:12
21090318-013	LC-Class 206	AIR	09/01/21 19:14
21090318-014	LC-Hall 207	AIR	09/01/21 19:19
21090318-015	LC-Class 211	AIR	09/01/21 19:16

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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Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21090318

Standard Flags/Abbreviations:

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

Certifications:

NELAP Certifications: PA 68-03330, VA 460156
State Certifications: MD 179, WV 303
Regulated Soil Permit: P330-12-00268
NSWC USCG Accepted Laboratory
LDBE MWAA LD1997-0041-2015

SGS GALSON

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

September 22, 2021

Account# 15354

Login# L545987

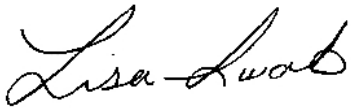
Dear Amber Confer:

Enclosed are the revised analytical results for the samples received by our laboratory on September 08, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

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

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

COMMENT ANNEX

Please note that this revision cancels and supersedes L545987 (report reference:1) dated September 16th, 2021 issued by SGS Galson.

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

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.
- 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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FAX: (315) 437-0571
www.sgsgalson.com

LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc. Account No.: 15354
Site : LYLES CROUCH ES Login No. : L545987
Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21 Date Analyzed : 15-SEP-21 - 16-SEP-21
Date Received : 08-SEP-21 Report ID : 1265083

TO15 List

Galson ID:			L545987-1		L545987-2		L545987-3	
Client ID:			LC-CLASS 001		LC-CAFE		LC-CLASS 010	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	5.1	8.8	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	0.80	1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	19	46	2.9	6.9	16	38
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	45	110	7.8	19	12	28

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

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Site : LYLES CROUCH ES
Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21
Date Received : 08-SEP-21

Account No.: 15354
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TO15 List

Galson ID:			L545987-1		L545987-2		L545987-3	
Client ID:			LC-CLASS 001		LC-CAFE		LC-CLASS 010	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	33	81	20	48	16	40
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	1.1	3.2	1.3	3.7	1.0	3.0
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2

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

Supervisor: BLD
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TO15 List

Galson ID:			L545987-1		L545987-2		L545987-3	
Client ID:			LC-CLASS 001		LC-CAFE		LC-CLASS 010	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Methyl Ethyl Ketone	0.80	2.4	1.5	4.5	<0.80	<2.4	1.0	3.0
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	1.7	6.1	<0.80	<2.9	<0.80	<2.9
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

LABORATORY ANALYSIS REPORT

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Project No. : CITY OF ALEXANDRIA
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TO15 List

Galson ID:			L545987-1		L545987-2		L545987-3	
Client ID:			LC-CLASS 001		LC-CAFE		LC-CLASS 010	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	1.8	6.8	<0.80	<3.0	1.3	5.0
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

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Client : Phase Separation Science, Inc.
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Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21
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Account No.: 15354
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TO15 List

Galson ID:			L545987-1		L545987-2		L545987-3	
Client ID:			LC-CLASS 001		LC-CAFE		LC-CLASS 010	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	1.3	5.6	2.0	8.5	0.80	3.7
m & p-Xylene	1.6	6.9	4.9	21	7.3	32	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	1.2	5.2	1.7	7.3	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

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

Galson ID:			L545987-1		L545987-2		L545987-3	
Client ID:			LC-CLASS 001		LC-CAFE		LC-CLASS 010	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

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

Supervisor: BLD
Approved by : BLD
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LABORATORY ANALYSIS REPORT

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Site : LYLES CROUCH ES
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Account No.: 15354
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TO15 List

Galson ID:			L545987-4		L545987-5		L545987-6	
Client ID:			LC-CLASS 114		LC-CLASS 111		LC-HALL 117	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	3.6	8.5	2.3	5.6	2.6	6.1
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	9.1	22	8.8	21	9.1	22

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TO15 List

Galson ID:			L545987-4		L545987-5		L545987-6	
Client ID:			LC-CLASS 114		LC-CLASS 111		LC-HALL 117	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	27	68	14	35	17	42
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	1.4	4.2	2.1	6.3	1.4	4.2
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2

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TO15 List

Galson ID:			L545987-4		L545987-5		L545987-6	
Client ID:			LC-CLASS 114		LC-CLASS 111		LC-HALL 117	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Methyl Ethyl Ketone	0.80	2.4	<0.80	<2.4	<0.80	<2.4	0.90	2.6
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

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Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
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TO15 List

Galson ID:			L545987-4		L545987-5		L545987-6	
Client ID:			LC-CLASS 114		LC-CLASS 111		LC-HALL 117	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	0.80	3.0	<0.80	<3.0	1.0	3.6
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

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

6601 Kirkville Road
East Syracuse, NY 13057
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FAX: (315) 437-0571
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Client : Phase Separation Science, Inc.
Site : LYLES CROUCH ES
Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21
Date Received : 08-SEP-21

Account No.: 15354
Login No. : L545987
Date Analyzed : 15-SEP-21 - 16-SEP-21
Report ID : 1265083

TO15 List

Galson ID:			L545987-4		L545987-5		L545987-6	
Client ID:			LC-CLASS 114		LC-CLASS 111		LC-HALL 117	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	3.5	15	1.0	4.3	<0.80	<3.5
m & p-Xylene	1.6	6.9	14	62	3.9	17	1.7	7.3
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	3.2	14	1.0	4.3	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

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Client : Phase Separation Science, Inc. Account No.: 15354
Site : LYLES CROUCH ES Login No. : L545987
Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21 Date Analyzed : 15-SEP-21 - 16-SEP-21
Date Received : 08-SEP-21 Report ID : 1265083

TO15 List

Galson ID:			L545987-4		L545987-5		L545987-6	
Client ID:			LC-CLASS 114		LC-CLASS 111		LC-HALL 117	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

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

LABORATORY ANALYSIS REPORT

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Report ID : 1265083

TO15 List

Galson ID:			L545987-7		L545987-8		L545987-9	
Client ID:			LC-MULTI		LC-CLASS 106		LC-MEDIA	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	1.5	3.6	2.1	5.0	1.1	2.6
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	12	30	11	27	7.0	17

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

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TO15 List

Galson ID:			L545987-7		L545987-8		L545987-9	
Client ID:			LC-MULTI		LC-CLASS 106		LC-MEDIA	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	7.9	19	19	46	6.8	17
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	3.3	9.8	1.1	3.3	4.0	12
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2

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

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

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc.
Site : LYLES CROUCH ES
Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21
Date Received : 08-SEP-21

Account No.: 15354
Login No. : L545987
Date Analyzed : 15-SEP-21 - 16-SEP-21
Report ID : 1265083

TO15 List

Galson ID:			L545987-7		L545987-8		L545987-9	
Client ID:			LC-MULTI		LC-CLASS 106		LC-MEDIA	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Methyl Ethyl Ketone	0.80	2.4	3.1	9.0	1.1	3.1	1.1	3.2
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	2.2	8.0	<0.80	<2.9	<0.80	<2.9
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

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

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

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Client : Phase Separation Science, Inc. Account No.: 15354
Site : LYLES CROUCH ES Login No. : L545987
Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21 Date Analyzed : 15-SEP-21 - 16-SEP-21
Date Received : 08-SEP-21 Report ID : 1265083

TO15 List

Galson ID:			L545987-7		L545987-8		L545987-9	
Client ID:			LC-MULTI		LC-CLASS 106		LC-MEDIA	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	0.90	3.6	<0.80	<3.0	<0.80	<3.0
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

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Client : Phase Separation Science, Inc.
Site : LYLES CROUCH ES
Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21
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Account No.: 15354
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TO15 List

Galson ID:			L545987-7		L545987-8		L545987-9	
Client ID:			LC-MULTI		LC-CLASS 106		LC-MEDIA	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	2.3	9.9	<0.80	<3.5	1.7	7.4
m & p-Xylene	1.6	6.9	8.9	39	1.9	8.2	6.2	27
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	2.0	8.6	<0.80	<3.5	1.4	6.0
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

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

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

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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc. Account No.: 15354
Site : LYLES CROUCH ES Login No. : L545987
Project No. : CITY OF ALEXANDRIA
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TO15 List

Galson ID:			L545987-7		L545987-8		L545987-9	
Client ID:			LC-MULTI		LC-CLASS 106		LC-MEDIA	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

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

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TO15 List

Galson ID:			L545987-10		L545987-11		L545987-12	
Client ID:			LC-ENTRANCE		LC-OFFICE		LC-CLASS 200	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	0.90	1.8	0.80	1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	2.3	5.4	1.4	3.4	0.90	2.1
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	8.1	19	8.3	20	13	31

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

6601 Kirkville Road
East Syracuse, NY 13057
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FAX: (315) 437-0571
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Client : Phase Separation Science, Inc.
Site : LYLES CROUCH ES
Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21
Date Received : 08-SEP-21

Account No.: 15354
Login No. : L545987
Date Analyzed : 15-SEP-21 - 16-SEP-21
Report ID : 1265083

TO15 List

Galson ID:			L545987-10		L545987-11		L545987-12	
Client ID:			LC-ENTRANCE		LC-OFFICE		LC-CLASS 200	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	15	37	15	37	7.7	19
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	2.2	6.4	1.3	3.7	1.0	2.9
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2

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

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

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Client : Phase Separation Science, Inc. Account No.: 15354
Site : LYLES CROUCH ES Login No. : L545987
Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21 Date Analyzed : 15-SEP-21 - 16-SEP-21
Date Received : 08-SEP-21 Report ID : 1265083

TO15 List

Galson ID:			L545987-10		L545987-11		L545987-12	
Client ID:			LC-ENTRANCE		LC-OFFICE		LC-CLASS 200	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Methyl Ethyl Ketone	0.80	2.4	1.1	3.3	<0.80	<2.4	1.0	3.0
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	<0.80	<2.9	0.80	3.0	<0.80	<2.9
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
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Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21 Date Analyzed : 15-SEP-21 - 16-SEP-21
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TO15 List

Galson ID:			L545987-10		L545987-11		L545987-12	
Client ID:			LC-ENTRANCE		LC-OFFICE		LC-CLASS 200	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	<0.80	<3.0	0.80	3.1	<0.80	<3.0
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

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Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21 Date Analyzed : 15-SEP-21 - 16-SEP-21
Date Received : 08-SEP-21 Report ID : 1265083

TO15 List

Galson ID:			L545987-10		L545987-11		L545987-12	
Client ID:			LC-ENTRANCE		LC-OFFICE		LC-CLASS 200	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	1.3	5.7	1.3	5.8	1.3	5.8
m & p-Xylene	1.6	6.9	4.6	20	4.8	21	4.8	21
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	1.0	4.4	0.90	4.1	1.1	4.6
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

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TO15 List

Galson ID:			L545987-10		L545987-11		L545987-12	
Client ID:			LC-ENTRANCE		LC-OFFICE		LC-CLASS 200	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
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Client : Phase Separation Science, Inc. Account No.: 15354
Site : LYLES CROUCH ES Login No. : L545987
Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21 Date Analyzed : 15-SEP-21 - 16-SEP-21
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TO15 List

Galson ID:			L545987-13		L545987-14		L545987-15	
Client ID:			LC-CLASS 206		LC-HALL 207		LC-HALL 211	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	1.8	4.2	3.6	8.5	2.5	5.9
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	9.9	23	12	29	11	27

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

Galson ID:			L545987-13		L545987-14		L545987-15	
Client ID:			LC-CLASS 206		LC-HALL 207		LC-HALL 211	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	17	41	14	35	14	34
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	1.3	3.9	1.6	4.6	0.90	2.5
Ethyl Bromide	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15	<5.0	<15	<5.0	<15
Methylene Chloride	0.80	2.8	<0.80	<2.8	1.2	4.3	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16	<5.0	<16	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5	<0.80	<2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2

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

Supervisor: BLD
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Account No.: 15354
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TO15 List

Galson ID:			L545987-13		L545987-14		L545987-15	
Client ID:			LC-CLASS 206		LC-HALL 207		LC-HALL 211	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Methyl Ethyl Ketone	0.80	2.4	<0.80	<2.4	0.90	2.7	0.90	2.5
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	<0.80	<2.9	0.90	3.2	<0.80	<2.9
Chloroform	0.80	3.9	0.80	4.0	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

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

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

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Account No.: 15354
Login No. : L545987
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Report ID : 1265083

TO15 List

Galson ID:			L545987-13		L545987-14		L545987-15	
Client ID:			LC-CLASS 206		LC-HALL 207		LC-HALL 211	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	<0.80	<3.0	1.3	4.8	0.90	3.5
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

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

LABORATORY ANALYSIS REPORT

6601 Kirkville Road
East Syracuse, NY 13057
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Client : Phase Separation Science, Inc.
Site : LYLES CROUCH ES
Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21
Date Received : 08-SEP-21

Account No.: 15354
Login No. : L545987
Date Analyzed : 15-SEP-21 - 16-SEP-21
Report ID : 1265083

TO15 List

Galson ID:			L545987-13		L545987-14		L545987-15	
Client ID:			LC-CLASS 206		LC-HALL 207		LC-HALL 211	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	1.1	4.8	<0.80	<3.5
m & p-Xylene	1.6	6.9	2.0	8.7	3.3	14	2.6	11
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

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

Approved by : BLD
Date : 22-SEP-21

Supervisor: BLD

LABORATORY ANALYSIS REPORT

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

Client : Phase Separation Science, Inc.
Site : LYLES CROUCH ES
Project No. : CITY OF ALEXANDRIA
Date Sampled : 01-SEP-21
Date Received : 08-SEP-21

Account No.: 15354
Login No. : L545987
Date Analyzed : 15-SEP-21 - 16-SEP-21
Report ID : 1265083

TO15 List

Galson ID:			L545987-13		L545987-14		L545987-15	
Client ID:			LC-CLASS 206		LC-HALL 207		LC-HALL 211	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

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

Supervisor: BLD
Approved by : BLD
Date : 22-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 : LYLES CROUCH ES
Project No. : CITY OF ALEXANDRIA

Date Sampled : 01-SEP-21 Account No.: 15354
Date Received: 08-SEP-21 Login No. : L545987
Date Analyzed: 15-SEP-21 - 16-SEP-21

L545987 (Report ID: 1265083):
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)

L545987-1 (Report ID: 1265083):
Propylene results may be biased high due to co-elution with Propane.

L545987 (Report ID: 1265083):
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
(315) 432-5227
FAX: (315) 437-0571
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Client Name : Phase Separation Science, Inc.
Site : LYLES CROUCH ES
Project No. : CITY OF ALEXANDRIA

Date Sampled : 01-SEP-21 Account No.: 15354
Date Received: 08-SEP-21 Login No. : L545987
Date Analyzed: 15-SEP-21 - 16-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 : LYLES CROUCH ES
Project No. : CITY OF ALEXANDRIA

Date Sampled : 01-SEP-21 Account No.: 15354
Date Received: 08-SEP-21 Login No. : L545987
Date Analyzed: 15-SEP-21 - 16-SEP-21

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

1Z2313E40165585972
Date:09/08/21
Shipper:UPS
Initials:BGF
Prep:UNKNOWN

1Z2313E40166190155
Date:09/08/21
Shipper:UPS
Initials:BGF
Prep:UNKNOWN

L545987

N

☐ New Client?

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

Client Account No.*:

057
227) WIVE cavt

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

☑ KMD 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: Lyles Crouch ES
Project: City of Alexandria
Sampled by:

Comments:

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

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

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

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
LC-Class 001	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
LC-Cafe	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
LC-Class 010	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
LC-Class 114	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
LC-Class 111	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
LC- Class 117 "Hall 117"	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
LC-Multi	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
LC-Class 106	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
LC-Media	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
LC-Entrance	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
LC-Office	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	

BGF 9/8/21

^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☑ Use method(s) listed on COC

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

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by:	Alex Won/Amber L Confer	9/7/21		Received by:	UPS		
Relinquished by:	UPS			Received by:	Brett Grenert-Fischer Brett Grenert-Fischer	9/8/21	0953

Samples received after 3pm will be considered as next day's business
* Required fields must be completed before samples being processed.

Report Reference: 2 Generated: 22-SEP-21 13:10

Page 1 of 2

1Z2313E40165599761
Date:09/08/21
Shipper:UPS
Initials:BGF
Prep:UNKNOWN

N

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

Invoice To* : Phase Separation Science

Client Account No.*:

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

www.sgsgalson.com

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

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

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

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 : Lyles Crouch ES Project : City of Alexandria Sampled by :

Comments :
* 1d "Hall 207" BGF 9/8/21

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

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

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

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
LC-Class 200	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
LC-Class 206	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
* LC-Class 207 ar 9/8/21	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
LC-Class 211	09/01/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
				ug/m^3	VOC	TO-15 (list)	
				ug/m^3	VOC	TO-15 (list)	
				ug/m^3	VOC	TO-15 (list)	
				ug/m^3	VOC	TO-15 (list)	
				ug/m^3	VOC	TO-15 (list)	
				ug/m^3	VOC	TO-15 (list)	
				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 :				Received by :			
Relinquished by :				Received by :	Brett Grenert-Fischer Brett Grenert-Fischer	9/8/21	0957

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in delays 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. : **21090318**
Project Location : Lyles Crouch ES
Project Number : 4920002
Report To LOD : No

Report Due On :09/15/21 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
21090318-001	LC-Class 001	09/01/21	18:45	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090318-002	LC-Cafe	09/01/21	18:41	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090318-003	LC-Class 010	09/01/21	18:39	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090318-004	LC-Class 114	09/01/21	18:48	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090318-005	LC-Class 111	09/01/21	18:51	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090318-006	LC-Class 117	09/01/21	18:52	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090318-007	LC-Multi	09/01/21	18:56	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
*21090318-008	LC-Class 106	09/01/21	19:08	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090318-009	LC-Media	09/01/21	18:54	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090318-010	LC-Entrance	09/01/21	18:58	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
*21090318-011	LC-Office	09/01/21	19:09	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
*21090318-012	LC-Class 200	09/01/21	19:12	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
*21090318-013	LC-Class 206	09/01/21	19:14	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090318-014	LC-Hall 200	09/01/21	19:19	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21090318-015	LC-Class 211	09/01/21	19:16	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON

aa 9/9/21

Data Deliverables Required: COA

Perform Q.C. on Sample : _____

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: _____ Carrier : UPS (3 boxes)

Condition Upon Receipt : _____

Comments : * Flow controllers not included with shipment. aa 9/7/21

Samples Relinquished By : [signature] Date : 9/7/21 Time: _____ Samples Received By : Brett Grenert-Fischer Brett Grenert-Fischer 0953 9/8/21

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.: 21090318

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

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

Sample Receipt:

Soil gas/indoor air not indicated on COC; samples are indoor air.
Incoming pressures not taken upon receipt. Pressures will be taken at subcontracting lab.
Sample 014 labeled as "Hall 207"; logged in according to canister label.

21090318: 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

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: Lyles Crouch ES P.O. NO.:
SAMPLER(S): Channing Jackson, Derrick Johnson

PSS Work Order #: 21090318
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
1	LC - Class 001	9/1/21	15:15	9/1/21	18:45	2376	4315	4	4		☐	☐	☑	☐	No change in pressure?
2	LC - Cafe	9/1/21	15:19	9/1/21	18:41	1353	10148	30+	12.5		☐	☐	☑	☐	
3	LC - Class 010	9/1/21	15:22	9/1/21	18:39	1488	6720	30	8		☐	☐	☑	☐	
4	LC - Class 114	9/1/21	15:27	9/1/21	18:48	1301	12756	31	12		☐	☐	☑	☐	
5	LC - Class 111	9/1/21	15:29	9/1/21	18:51	1410	10154	28	7		☐	☐	☑	☐	
6	LC - Class 117	9/1/21	15:31	9/1/21	18:52	WA617	4342	28	8		☐	☐	☑	☐	
7	LC - Multi	9/1/21	15:32	9/1/21	18:56	WA611	6818	30+	10		☐	☐	☑	☐	
8	LC - Class 106	9/1/21	15:35	9/1/21	19:08	1415	4374	27	1		☐	☐	☑	☐	
9	LC - Media	9/1/21	15:37	9/1/21	18:54	WA427	10136	27	3		☐	☐	☑	☐	
10	LC - Entrance	9/1/21	15:38	9/1/21	18:58	WA583	11477	29	6		☐	☐	☑	☐	

(5)

Relinquished By: (1)	Date	Time	Received By:
	9/2/21	13:00	Derrick Johnson
Relinquished By: (2) Derrick Johnson	Date 9/2/21	Time 1715	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: Client

Data Deliverables Required:

Special Instructions:

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: Lyles Crouch ES P.O. NO.:
SAMPLER(S): Channing Jackson, Derrick Johnson

PSS Work Order #: 2109038

(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
11	LC - Office	9/1/21	15:40	9/1/21	19:09	WA061	4599	23	7.5		☐	☐	☑	☐	
12	LC - Class 200	9/1/21	15:42	9/1/21	19:12	1515	10151	29	8.5		☐	☐	☑	☐	
13	LC - Class 206	9/1/21	15:43	9/1/21	19:14	WA860	10733	30	11.0		☐	☐	☑	☐	
14	LC - Hall 202	9/1/21	15:44	9/1/21	19:19	WA588	WR556	21	3.0		☐	☐	☑	☐	
15	LC - Class 211	9/1/21	15:45	9/1/21	19:16	WA444	7449	30+	13.0		☐	☐	☑	☐	
											☐	☐	☑	☐	
											☐	☐	☑	☐	
											☐	☐	☑	☐	
											☐	☐	☑	☐	
											☐	☐	☑	☐	

(5)

Relinquished By: (1)	Date	Time	Received By:
[signature]	9/2/21	13:00	Derrick Johnson
Relinquished By: (2) Derrick Johnson	Date 9/2/21	Time 1715	Received By: [signature]
Relinquished By: (3)	Date 9/1/21	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:

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PHASE SEPARATION SCIENCE

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Baltimore, MD 21228
410-747-8770
800-932-9047
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Sample Receipt Checklist

Project Name: ACPS IAQ Testing
PSS Project No.: 21090318

Client Name Total Environmental Concepts - Lorto
Disposal Date 10/07/2021

Received By Thomas Wingate
Date Received 09/02/2021 05:15:00 PM
Delivered By Client
Tracking No Not Applicable
Logged In By Amber Confer

Shipping Container(s)
No. of Coolers 0

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

Documentation
Sampler Name C. Jackson, D. Johnson
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
Total No. of Samples Received 15
All Samples Received Within Holding Time(s)? Yes
Total No. of Containers Received 15

Preservation

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

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Sample Receipt Checklist

Project Name: ACPS IAQ Testing
PSS Project No.: 21090318

Client Name	Total Environmental Concepts - Lorto	**Received By**	Thomas Wingate
Disposal Date	10/07/2021	**Date Received**	09/02/2021 05:15:00 PM
		Delivered By	Client
		Tracking No	Not Applicable
		Logged In By	Amber Confer

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

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

Soil gas/indoor air not indicated on COC; samples are indoor air.
Incoming pressures not taken upon receipt. Pressures will be taken at subcontracting lab.
Sample 014 labeled as "Hall 207"; logged in according to canister label.

Samples Inspected/Checklist Completed By: Amber Confer — Date: 09/07/2021

PM Review and Approval: Lynn Jackson — Date: 09/07/2021

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

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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: Lyles Crouch ES P.O. NO.:

SAMPLER(S): Channing Jackson, Derrick Johnson

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
	LC - Class 001	9/1/21	15:15	9/1/21	18:45	2376	4315	4	4		☐	☐	☑	☐	No change in pressure?
	LC - Cafe	9/1/21	15:19	9/1/21	18:41	1353	10148	30+	12.5		☐	☐	☑	☐	
	LC - Class 010	9/1/21	15:22	9/1/21	18:39	1488	6720	30	8		☐	☐	☑	☐	
	LC - Class 114	9/1/21	15:27	9/1/21	18:48	1301	12756	31	12		☐	☐	☑	☐	
	LC - Class 111	9/1/21	15:29	9/1/21	18:51	1410	10154	28	7		☐	☐	☑	☐	
	LC - Class 117	9/1/21	15:31	9/1/21	18:52	WA617	4342	28	8		☐	☐	☑	☐	
	LC - Multi	9/1/21	15:32	9/1/21	18:56	WA611	6818	30+	10		☐	☐	☑	☐	
	LC - Class 106	9/1/21	15:35	9/1/21	19:08	1415	4374	27	1		☐	☐	☑	☐	
	LC - Media	9/1/21	15:37	9/1/21	18:54	WA427	10136	27	3		☐	☐	☑	☐	
	LC - Entrance	9/1/21	15:38	9/1/21	18:58	WA583	11477	29	6		☐	☐	☑	☐	

(5)

Relinquished By:	Date	Time	Received By:
Relinquished By: (1)	9/2/21	13:00	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)			

(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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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: Lyles Crouch ES P.O. NO.:

SAMPLER(S): Channing Jackson, Derrick Johnson

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
	LC - Class 001	9/1/21	15:15	9/1/21	18:45	2376	4315	4	4		☐	☐	✔	☐	No change in pressure?
	LC - Cafe	9/1/21	15:19	9/1/21	18:41	1353	10148	30+	12.5		☐	☐	✔	☐	
	LC - Class 010	9/1/21	15:22	9/1/21	18:39	1488	6720	30	8		☐	☐	✔	☐	
	LC - Class 114	9/1/21	15:27	9/1/21	18:48	1301	12756	31	12		☐	☐	✔	☐	
	LC - Class 111	9/1/21	15:29	9/1/21	18:51	1410	10154	28	7		☐	☐	✔	☐	
	LC - Class 117	9/1/21	15:31	9/1/21	18:52	WA617	4342	28	8		☐	☐	✔	☐	
	LC - Multi	9/1/21	15:32	9/1/21	18:56	WA611	6818	30+	10		☐	☐	✔	☐	
	LC - Class 106	9/1/21	15:35	9/1/21	19:08	1415	4374	27	1		☐	☐	✔	☐	
	LC - Media	9/1/21	15:37	9/1/21	18:54	WA427	10136	27	3		☐	☐	✔	☐	
	LC - Entrance	9/1/21	15:38	9/1/21	18:58	WA583	11477	29	6		☐	☐	✔	☐	

(5)

Relinquished By: (1)	Date	Time	Received By:
	9/2/21	13:00	
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

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21091316

September 21, 2021

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

Reference: PSS Project No: **21091316**
Project Name: ACPS IAQ Testing
Project Location: Lyles Crouch
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) **21091316**.

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

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Baltimore, MD 21228
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800-932-9047
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Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21091316

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
21091316-001	LC 001	AIR	09/08/21 00:00
21091316-002	LC Cafe	AIR	09/08/21 00:00
21091316-003	LC 010	AIR	09/08/21 00:00
21091316-004	LC 114	AIR	09/08/21 00:00
21091316-005	LC 111	AIR	09/08/21 00:00
21091316-006	LC Hall 117	AIR	09/08/21 00:00
21091316-007	LC Multi Purpose	AIR	09/08/21 00:00
21091316-008	LC 106	AIR	09/08/21 00:00
21091316-009	LC Library	AIR	09/08/21 00:00
21091316-010	LC Lobby	AIR	09/08/21 00:00
21091316-011	LC Office	AIR	09/08/21 00:00
21091316-012	LC 200	AIR	09/08/21 00:00
21091316-013	LC 206	AIR	09/08/21 00:00
21091316-014	LC Hall 215	AIR	09/08/21 00:00
21091316-015	LC 211	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.

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Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21091316

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# L546492

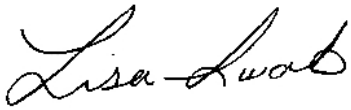
Dear Amber Confer:

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.
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Analytical Disclaimers

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

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

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

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and Regulation	Lab ID: 1042	Mold Analysis Laboratory license

Legend

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

SGS GALSON

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 : LYLES CROUCH Login No. : L546492
Project No. : ACPS IAQ TESTING - 4920002
Date Sampled : 08-SEP-21 Date Analyzed : 15-SEP-21
Date Received : 14-SEP-21 Report ID : 1265200

Formaldehyde

Sample ID	Lab ID	Time minutes	Total ug	Conc mg/m3	ppm
LC 001	L546492-1	236	<0.4	<0.01	<0.01
LC CAFE	L546492-2	238	<0.4	<0.01	<0.01
LC 010	L546492-3	236	<0.4	<0.01	<0.01
LC 114	L546492-4	236	<0.4	<0.01	<0.01
LC 111	L546492-5	239	<0.4	<0.01	<0.01
LC HALL 117	L546492-6	241	<0.4	<0.01	<0.01
LC MULTI PURPOSE	L546492-7	236	<0.4	<0.01	<0.01
LC 106	L546492-8	227	<0.4	<0.01	<0.01
LC LIBRARY	L546492-9	249	<0.4	<0.01	<0.01
LC LOBBY	L546492-10	235	<0.4	<0.01	<0.01
LC OFFICE	L546492-11	231	<0.4	<0.01	<0.01
LC 200	L546492-12	238	<0.4	<0.01	<0.01
LC 206	L546492-13	236	<0.4	<0.01	<0.01
LC HALL 215	L546492-14	236	<0.4	<0.01	<0.01
LC 211	L546492-15	236	<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

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 : LYLES CROUCH
Project No. : ACPS IAQ TESTING - 4920002

Date Sampled : 08-SEP-21 Account No.: 15354
Date Received: 14-SEP-21 Login No. : L546492
Date Analyzed: 15-SEP-21

L546492 (Report ID: 1265200):
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)

L546492 (Report ID: 1265200):
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%

1546492 2109316

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 : Lyles Crouch 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.)*
LC 001	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
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LC 010	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 114	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 111	09/08/21	Assay N581 Aldehyde Badge	239	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Hall 117	09/08/21	Assay N581 Aldehyde Badge	241	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Multi Purpose	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 106	09/08/21	Assay N581 Aldehyde Badge	227	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Library	09/08/21	Assay N581 Aldehyde Badge	249	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Lobby	09/08/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Office	09/08/21	Assay N581 Aldehyde Badge	231	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	

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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 :		9/10/21	11:30	Received by :			
Relinquished by :	Ted Kraus	9/13/21	12:47	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

21091316

SGS GALSON

☐ New Client?

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

Client Account No.*:

Invoice To* : Phase Separation Science

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

www.sgsgalson.com

Phone No.* : 410-747-8770
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Site Name : Lyles Crouch   Project : ACPS IAQ testing - 4920002   Sampled by : Karl Ford

Comments :
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Page 1 of 2

Version 1.000

Michelle Krause 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. : **21091316**
Project Location : Lyles Crouch
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

38 — 39

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
								all 581 SL 9/14/21
21091316-001	LC 001	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-002	LC Cafe	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-003	LC 010	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-004	LC 114	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-005	LC 111	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-006	LC Hall 117	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-007	LC Multi Purpose	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-008	LC 106	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-009	LC Library	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-010	LC Lobby	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-011	LC Office	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-012	LC 200	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-013	LC 206	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-014	LC Hall 215	09/08/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21091316-015	LC 211	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 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.: 21091316

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.

2109316

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)
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☐ 3 Business Days	50%
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☐ Same Day	200%

Site Name : Lyles Crouch 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 :
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VA

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Page 1 of 2

21091316

SGS GALSON

☐ New Client?

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

Client Account No.*:

Invoice To* : Phase Separation Science

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

www.sgsgalson.com

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

Phone No.: 410-747-8770
Email : invoicing@phaseonline.com
P.O. No. : ODC 4920002-001
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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.: 21091316

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
Documentation		Sampler Name	Karl Ford
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		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

SGS GALSON

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Site Name :

Project : ACPS IAQ testing - 4920002

Sampled by : Karl Ford

Comments :

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

SGS GALSON

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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.)*
LC 001	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Cafe	09/08/21	Assay N581 Aldehyde Badge	238	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 010	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 114	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 111	09/08/21	Assay N581 Aldehyde Badge	239	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Hall 117	09/08/21	Assay N581 Aldehyde Badge	241	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Multi Purpose	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 106	09/08/21	Assay N581 Aldehyde Badge	227	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Library	09/08/21	Assay N581 Aldehyde Badge	249	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Lobby	09/08/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Office	09/08/21	Assay N581 Aldehyde Badge	231	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	

^Galson Laboratories will subsitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☑ Use method(s) listed on COC

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

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :				Received by :			
Relinquished by :				Received by :			

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

Appendix E: 4-PCH Analytical Results

PHASE SEPARATION SCIENCE

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

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21091313

September 21, 2021

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

Reference: PSS Project No: **21091313**
Project Name: ACPS IAQ Testing
Project Location: Lyles Crouch
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) **21091313**.

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.: 21091313

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
21091313-001	LC 001	AIR	09/08/21 00:00
21091313-002	LC Cafe	AIR	09/08/21 00:00
21091313-003	LC 010	AIR	09/08/21 00:00
21091313-004	LC 114	AIR	09/08/21 00:00
21091313-005	LC 111	AIR	09/08/21 00:00
21091313-006	LC 117	AIR	09/08/21 00:00
21091313-007	LC Multi Purpose	AIR	09/08/21 00:00
21091313-008	LC 106	AIR	09/08/21 00:00
21091313-009	LC Library	AIR	09/08/21 00:00
21091313-010	LC Lobby	AIR	09/08/21 00:00
21091313-011	LC Office	AIR	09/08/21 00:00
21091313-012	LC 200	AIR	09/08/21 00:00
21091313-013	LC 206	AIR	09/08/21 00:00
21091313-014	LC Hall 215	AIR	09/08/21 00:00
21091313-015	LC 211	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

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Baltimore, MD 21228
410-747-8770
800-932-9047
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Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21091313

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# L546494

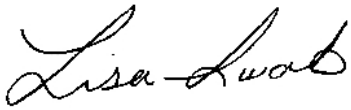
Dear Amber Confer:

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

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East Syracuse, NY 13057
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FAX: (315) 437-0571
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Client : Phase Separation Science, Inc.
Site : LYLES CROUCH
Project No. : ACPS IAQ TESTING - 4920002
Date Sampled : 08-SEP-21
Date Received : 14-SEP-21

Account No.: 15354
Login No. : L546494
Date Analyzed : 16-SEP-21 - 17-SEP-21
Report ID : 1265460

4-Phenylcyclohexene (4PCH low LOQ)

Sample ID	Lab ID	Air Vol liter	Front ug	Back ug	Total ug	Conc mg/m3	ppm
LC 001	L546494-1	47.2	<0.2	<0.2	<0.2	<0.004	<0.0007
LC CAFE	L546494-2	47.6	<0.2	<0.2	<0.2	<0.004	<0.0007
LC 010	L546494-3	47.2	<0.2	<0.2	<0.2	<0.004	<0.0007
LC 114	L546494-4	47.2	<0.2	<0.2	<0.2	<0.004	<0.0007
LC 111	L546494-5	47.8	<0.2	<0.2	<0.2	<0.004	<0.0007
LC 117	L546494-6	48.2	<0.2	<0.2	<0.2	<0.004	<0.0007
LC MULTI PURPOSE	L546494-7	47.2	<0.2	<0.2	<0.2	<0.004	<0.0007
LC 106	L546494-8	45.4	<0.2	<0.2	<0.2	<0.005	<0.0007
LC LIBRARY	L546494-9	49.8	<0.2	<0.2	<0.2	<0.004	<0.0006
LC LOBBY	L546494-10	47	<0.2	<0.2	<0.2	<0.004	<0.0007
LC OFFICE	L546494-11	46.2	<0.2	<0.2	<0.2	<0.004	<0.0007
LC 200	L546494-12	47.6	<0.2	<0.2	<0.2	<0.004	<0.0007
LC 206	L546494-13	47.2	<0.2	<0.2	<0.2	<0.004	<0.0007
LC HALL 215	L546494-14	47.2	<0.2	<0.2	<0.2	<0.004	<0.0007
LC 211	L546494-15	47.2	<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

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

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

Date Sampled : 08-SEP-21 Account No.: 15354
Date Received: 14-SEP-21 Login No. : L546494
Date Analyzed: 16-SEP-21 - 17-SEP-21

L546494 (Report ID: 1265460):
Total ug corrected for a desorption efficiency of 97%.
SOPs: GC-SOP-16(26), GC-SOP-8(27), GC-SOP-12(20)

L546494 (Report ID: 1265460):
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

L546494 21091313

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6630 Baltimore National Pike
Baltimore, MD 21228

Invoice To*: Phase Separation Science

Client Account No.*:

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

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91

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

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: Lyles Crouch 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.)*
LC 001	09/08/21	Sm Charcoal tubes / 226-01	47.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC Cafe	09/08/21	Sm Charcoal tubes / 226-01	47.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 010	09/08/21	Sm Charcoal tubes / 226-01	47.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 114	09/08/21	Sm Charcoal tubes / 226-01	47.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 111	09/08/21	Sm Charcoal tubes / 226-01	47.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 117	09/08/21	Sm Charcoal tubes / 226-01	48.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC Multi Purpose	09/08/21	Sm Charcoal tubes / 226-01	47.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 106	09/08/21	Sm Charcoal tubes / 226-01	45.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC Library	09/08/21	Sm Charcoal tubes / 226-01	49.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC Lobby	09/08/21	Sm Charcoal tubes / 226-01	47	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC Office	09/08/21	Sm Charcoal tubes / 226-01	46.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	

^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:		9/10/21	12:36	Received by:			
Relinquished by:	Ted Krous	9/13/21	1246	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.

Brett Grenet-Fischer 9/14/21 0944

21091313

SGS GALSON

☐ New Client?

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

Client Account No.*:

Invoice To*: Phase Separation Science

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East Syracuse, NY 13057
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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: LYLES Crouch 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.)*
LC 200	09/08/21	Sm Charcoal tubes / 226-01	47.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 206	09/08/21	Sm Charcoal tubes / 226-01	47.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC Hall 215	09/08/21	Sm Charcoal tubes / 226-01	47.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 211	09/08/21	Sm Charcoal tubes / 226-01	47.2	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:	[signature]	9/10/21	11:10	Received by:			
Relinquished by:	Ted Kraus	9/13/21	1246	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 your samples being processed.

Page 1 of 2

Page 6 of 7 Report Reference:1 Generated:21-SEP-21 08:10

Brett Gronert-Fischer Version: 1.00 Brett Gronert-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. : **21091313**
Project Location : Lyles Crouch
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
21091313-001	LC 001	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-002	LC Cafe	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-003	LC 010	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-004	LC 114	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-005	LC 111	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-006	LC 117	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-007	LC Multi Purpose	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-008	LC 106	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-009	LC Library	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-010	LC Lobby	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-011	LC Office	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-012	LC 200	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-013	LC 206	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-014	LC Hall 215	09/08/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21091313-015	LC 211	09/08/21	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.: 21091313

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.

21091313

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 : Lyles Crouch 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.)*
LC 001	09/08/21	Sm Charcoal tubes / 226-01	47.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC Cafe	09/08/21	Sm Charcoal tubes / 226-01	47.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 010	09/08/21	Sm Charcoal tubes / 226-01	47.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 114	09/08/21	Sm Charcoal tubes / 226-01	47.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 111	09/08/21	Sm Charcoal tubes / 226-01	47.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 117	09/08/21	Sm Charcoal tubes / 226-01	48.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC Multi Purpose	09/08/21	Sm Charcoal tubes / 226-01	47.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 106	09/08/21	Sm Charcoal tubes / 226-01	45.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC Library	09/08/21	Sm Charcoal tubes / 226-01	49.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC Lobby	09/08/21	Sm Charcoal tubes / 226-01	47	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC Office	09/08/21	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 :		9/10/21	12:36	Received by :			
Relinquished by :	Ted Krauss	9/13/21	1246	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.

2109131 3

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 : Lyles Crouch 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.)*
LC 200	09/08/21	Sm Charcoal tubes / 226-01	47.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 206	09/08/21	Sm Charcoal tubes / 226-01	47.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC Hall 215	09/08/21	Sm Charcoal tubes / 226-01	47.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
LC 211	09/08/21	Sm Charcoal tubes / 226-01	47.2	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 :	[signature]	9/10/21	12:30	Received by :			
Relinquished by :	Ted Kraus	9/13/21	1246	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 your samples being processed.

Page 1 of 2

PHASE SEPARATION SCIENCE

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

Sample Receipt Checklist

Project Name: ACPS IAQ Testing
PSS Project No.: 21091313

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
Documentation		Sampler Name	Karl Ford
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		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

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.)*
LC 001	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Cafe	09/08/21	Assay N581 Aldehyde Badge	238	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 010	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 114	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 111	09/08/21	Assay N581 Aldehyde Badge	239	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Hall 117	09/08/21	Assay N581 Aldehyde Badge	241	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Multi Purpose	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 106	09/08/21	Assay N581 Aldehyde Badge	227	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Library	09/08/21	Assay N581 Aldehyde Badge	249	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Lobby	09/08/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Office	09/08/21	Assay N581 Aldehyde Badge	231	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	

^Galson Laboratories will subsitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☑ Use method(s) listed on COC

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

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :				Received by :			
Relinquished by :				Received by :			

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

Client Account No.*:

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

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

Invoice To* : Phase Separation Science

Phone No.: 410-747-8770
Email : invoicing@phaseonline.com
P.O. No. : ODC 4920002-001
Credit Card : ☐ Card on File ☐ Call for Credit Card Info.

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

Need Results By:	(surcharge)
☐ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

Site Name :

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.)*
LC 001	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Cafe	09/08/21	Assay N581 Aldehyde Badge	238	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 010	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 114	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 111	09/08/21	Assay N581 Aldehyde Badge	239	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Hall 117	09/08/21	Assay N581 Aldehyde Badge	241	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Multi Purpose	09/08/21	Assay N581 Aldehyde Badge	236	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC 106	09/08/21	Assay N581 Aldehyde Badge	227	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Library	09/08/21	Assay N581 Aldehyde Badge	249	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Lobby	09/08/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	
LC Office	09/08/21	Assay N581 Aldehyde Badge	231	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	

^Galson Laboratories will subsitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☑ Use method(s) listed on COC

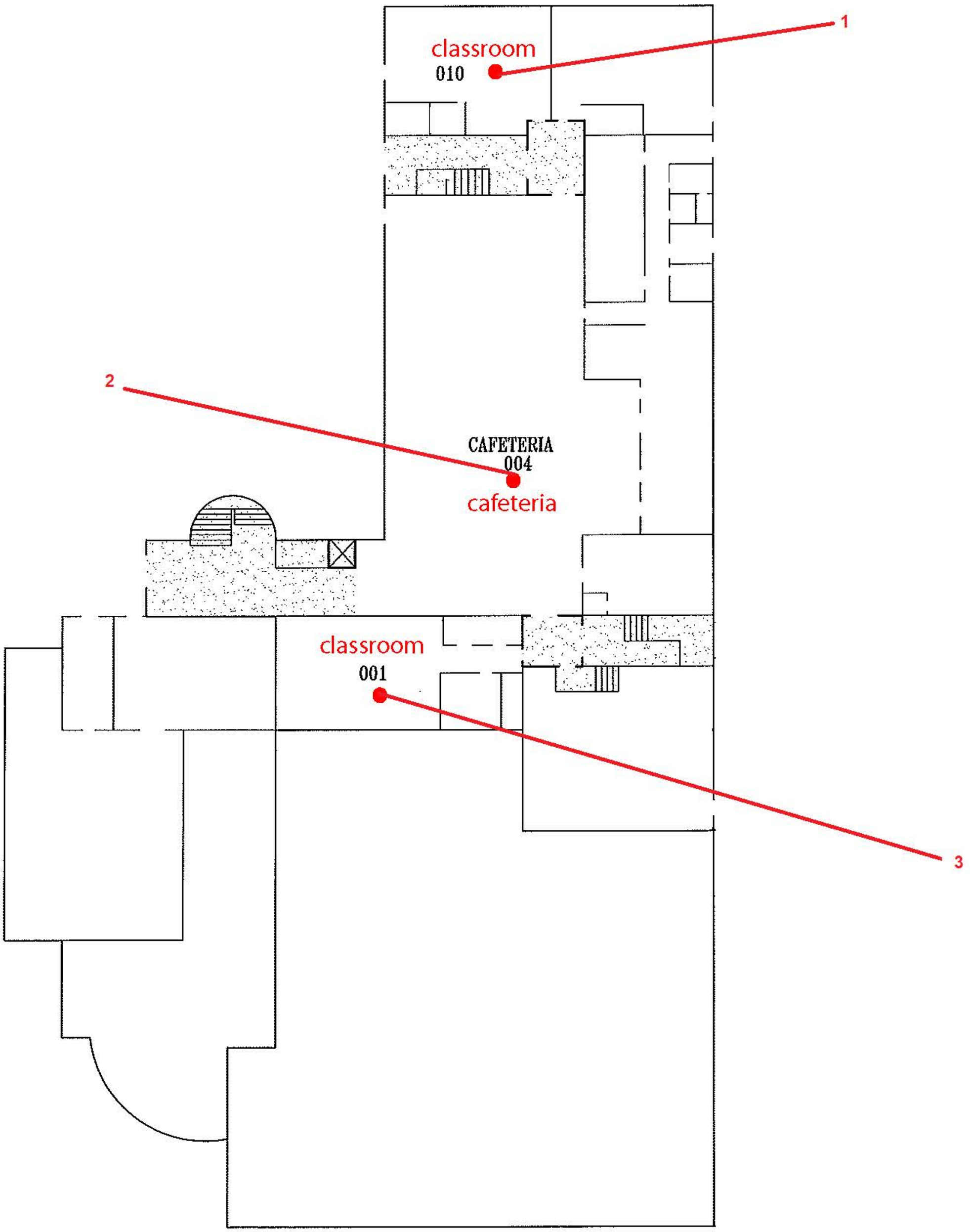
For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :				Received by :			
Relinquished by :				Received by :			

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

Appendix F: Sampling Locations



LEGEND

● Sample Location Analyzed For:

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

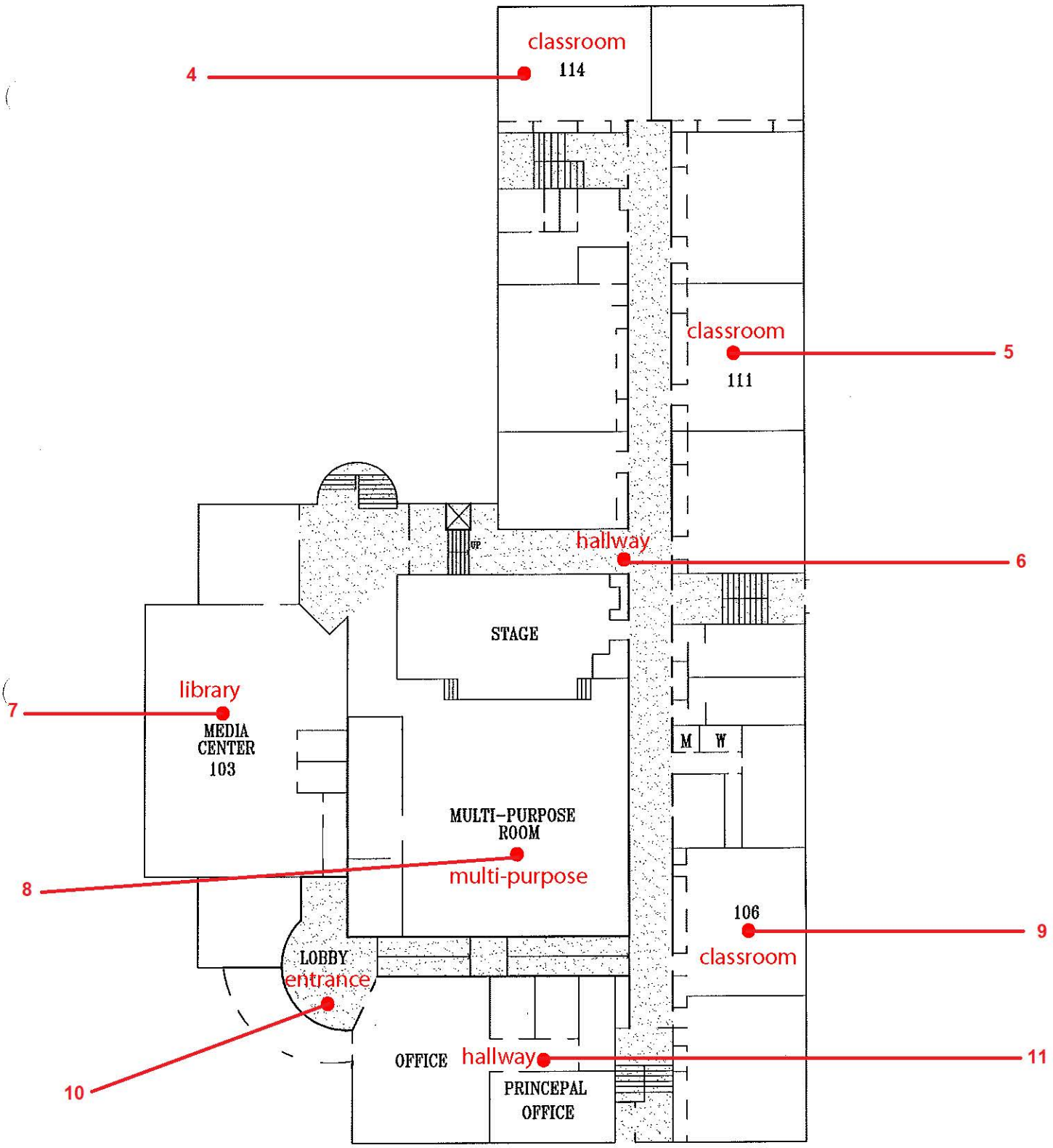
LYLES-CROUCH ELEMENTARY SCHOOL

530 S. Saint Asaph Street
Alexandria, Va 22314

GROUND FLOOR PLAN

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

Figure 1



LEGEND

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

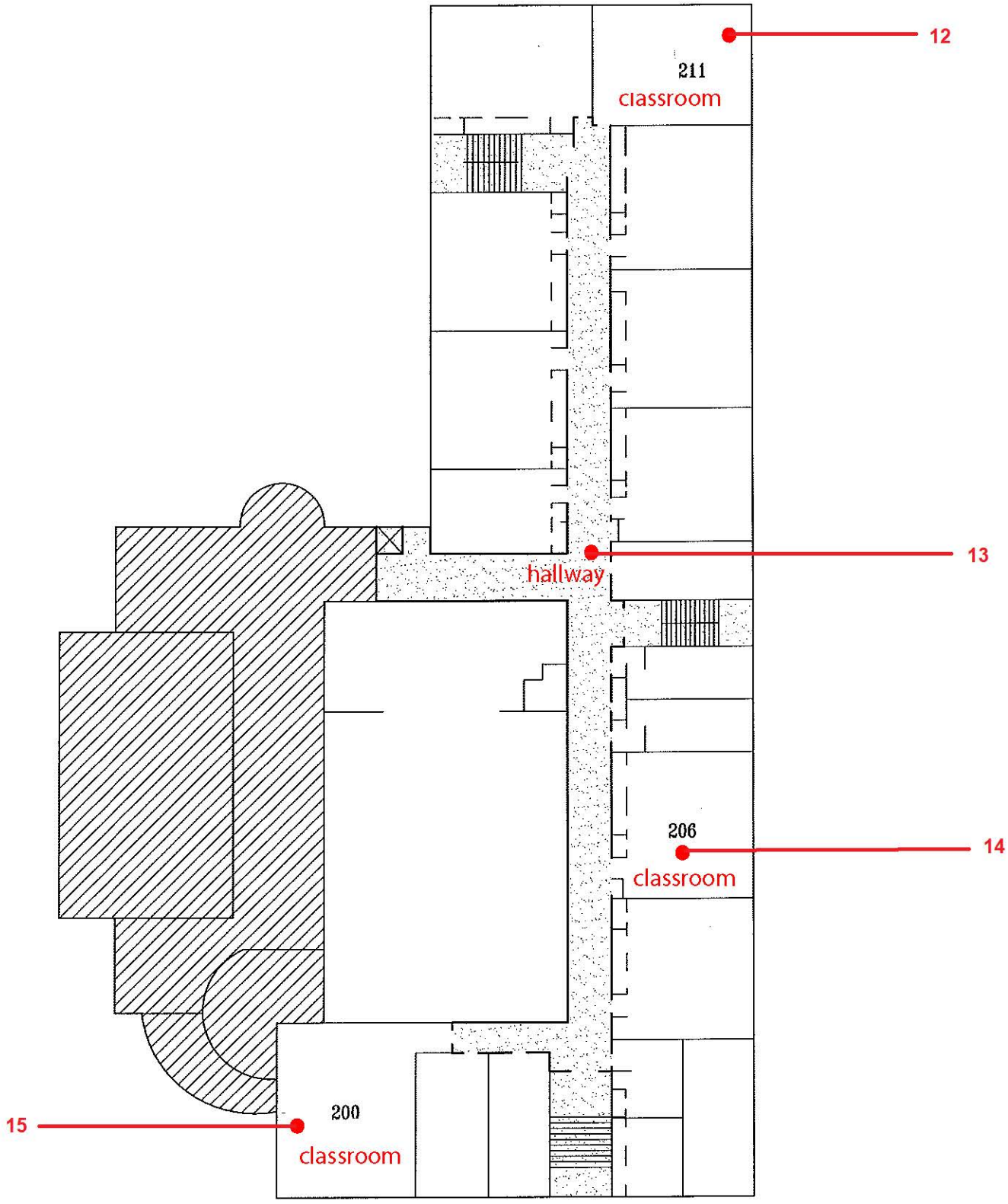
LYLES-CROUCH ELEMENTARY SCHOOL

530 S. Saint Asaph Street
Alexandria, Va 22314

1ST FLOOR PLAN

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

Figure 2



LEGEND

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

LYLES-CROUCH ELEMENTARY SCHOOL

530 S. Saint Asaph Street
Alexandria, Va 22314

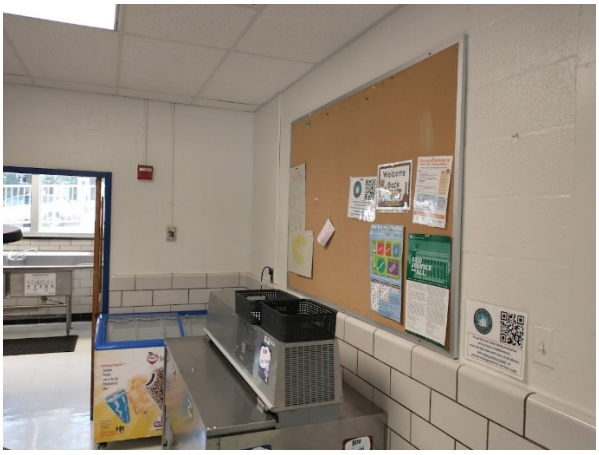
2nd FLOOR PLAN

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

Figure 3

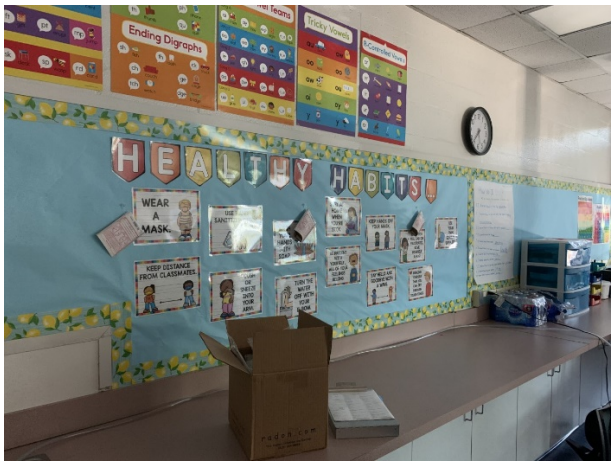
Appendix G: Photographs

Lyles Crouch, Library



Lyles Crouch, Cafeteria

Lyles Crouch, Lobby



Lyles Crouch, Classroom

Lyles Crouch, Multi-purpose

Lyles Crouch, Main Office