

**Total
Environmental
Concepts, Inc.**

Setting the Standard in Comprehensive Environmental Solutions

15 Park Avenue
Gaithersburg, MD 20877
PHONE: 301-548-0382
FAX: 301-527-0248



Indoor Air Quality Assessment Report

at

Douglas MacArthur Elementary School
4633 Taney Avenue
Alexandria, VA 22304



Report Prepared for:

John Contreras

Alexandria City Public Schools

2601 Cameron Mills Rd, Alexandria, VA 22302

Dated: October 14, 2021

Toll Free: 877.457.TECI • www.totalenvironmental.net

Gaithersburg • Baltimore • Lorton • Richmond

TABLE OF CONTENTS

1	Executive Summary.....	1
2	Assessment Methods.....	3
3	Visual Observations	7
4	Conditions for Human Occupancy	9
4.1	Temperature	9
4.2	Relative Humidity	9
4.3	Carbon Dioxide	10
4.4	Carbon Monoxide	10
4.5	Multi-Gas	10
5	Mold Sampling Results	10
6	Radon Gas Sampling Results	11
7	Formaldehyde Gas Sampling Results	11
8	TO+15 (VOCs) Sampling Results	12
9	4-PCH Sampling Results	12
10	Multi-Gas detector (MSA Altair Multi-gas) Readings – Oxygen, VOCs, Hydrogen Sulfide	12
11	Quality Control Program	15

APPENDICES

Appendix A: Mold Analytical Results

Appendix B: Radon Analytical Results

Appendix C: VOCs (TO+15) Analytical Results

Appendix D: Formaldehyde Analytical Results

Appendix E: 4-PCH Analytical Results

Appendix F: Sampling Locations

Appendix G: Photographs

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 (DM)**
- 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 Douglas MacArthur Elementary School on Thursday, September 30, 2021. ACPS required that the testing to be based on the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) guidelines. ACPS provided site plans and fifteen (15) sampling locations per school. Sampling locations were chosen by ACPS based on internal review of facilities maintenance records, and a review of facilities maintenance related issues. An additional two (2) sampling locations were added for mold sampling at the request of the client, John Contreras. These sampling locations were selected to collect representative IAQ data in these specific areas and to document any areas of potential concern observed during the site assessment. ACPS required that TEC test for the following major indoor air pollutants:

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

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

- Carbon Monoxide
- Carbon Dioxide
- Humidity

- Temperature
- Oxygen

Summary of findings and recommendaitons during this limited IAQ investigation:

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

Findings:

1. The number of spores detected of Aspergillus|Penicillium recorded in Classroom 1072, Classroom 1064, and in Hall 1053, were significantly higher than background outside mold spore counts. The actual number of Aspergillus|Penicillium spores detected inside was relatively low. No visible mold was observed.
2. A mold spore ratio anomaly of Aspergillus|Penicillium was recorded in Classroom 1072, Classroom 1064, and in Hall 1053. Aspergillus|Penicillium is not commonly found indoors and grows on plants and plant material. The Aspergillus|Penicillium spores detected were likely caused by open windows and doors and normal fluctuations in outside spore counts as there was no visible mold observed anywhere. This anomaly is not a health issue.
3. Additional sampling was conducted in Classroom 1068 and Classroom 1075. The results were below baseline readings and did not indicate mold issues.

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

Recommendations:

- The Aspergillus|Penicillium spores detected above basline numbers were likely caused by open windows and doors and normal fluctuations in outside spore counts and there was no visible mold observed. The spores detected of the genus Aspergillus|Penicillium are not a health issue.
 - 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.
 - A detailed schedule of maintenance, for all HVAC and associated building systems, should be established, and adhered to.
- **Radon** – levels recorded in all locations were less than 4pCi/L, as recommended by EPA and HUD.
 - **VOCs** – The levels of volitile organic compounds (VOCs) recorded at each location were within acceptable ranges, when compared to EPA Regional Screening Levels (RSLs).

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

2. Assesment Methods

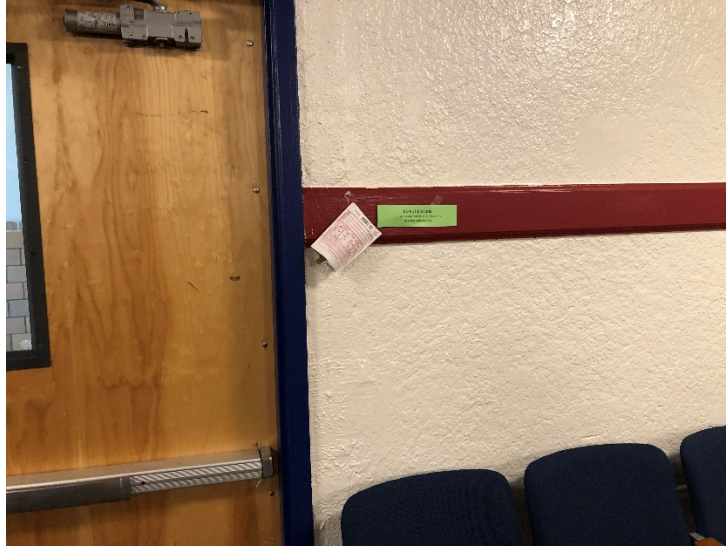
Under the direction of TEC Industrial Hygienist Nikki Satari; Margaret Stanger, Victoria Powers, and Channing Jackson, also of TEC, conducted IAQ inspections and air sampling on September 30, 2021. All air samples were collected three-six feet from floor level, the typical breathing zone for adults.

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



Radon gas samples were collected by securing Air Chek Radon Test Kits (photograph below). Samples were collected within the breathing zone (4-6ft from ground level) at each sample

location. In accordance with Air Chek's Radon Test Kit Instructions, kits were secured to walls inside the building and away from, open windows, doors to the outside, or interior air ventilation systems. Sampling time was 72 hours. Radon analytical results can be found in Appendix B.



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








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


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



3. Visual Observations

Sample Location	September 30, 2021	Visual Observations
Media Center	TEC observed construction in the Media Center during sampling.	
Class 1072	TEC observed no visible water intrusion.	

<p>Class 1064</p>	<p>TEC observed no visible water intrusion.</p>	
<p>Hall 1055</p>	<p>TEC observed no visible water intrusion.</p>	
<p>Addition: Kindergarden Wing</p>	<p>Classrooms 1064, 1068, 1072, and 1075 are located in an addition to Douglas MacArthur and separate from the main building.</p>	

<p>Addition: 4-5 Grade</p>	<p>Classrooms 1059 and 1064, are located in an addition to Douglas MacArthur and separate from the main building.</p>	
--------------------------------	---	--

4. Conditions for Human Occupancy

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

4.1 Temperature

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

4.2 Relative Humidity

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

4.3 Carbon Dioxide

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

4.4 Carbon Monoxide

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

4.5 Multi-gas Detector Readings

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

5. Mold Sampling Results

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.

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

Findings:

1. The number of spores detected of Aspergillus|Penicillium recorded in Classroom 1072, Classroom 1064, and in Hall 1053, were significantly higher than background outside mold spore counts. The actual number of Aspergillus|Penicillium spores detected inside was relatively low. No visible mold was observed.
2. A mold spore ratio anomaly of Aspergillus|Penicillium was recorded in Classroom 1072, Classroom 1064, and in Hall 1053. Aspergillus|Penicillium is not commonly found indoors and grows on plants and plant material. The Aspergillus|Penicillium spores detected were likely caused by open windows and doors and normal fluctuations in outside spore counts as there was no visible mold observed anywhere. This anomaly is not a health issue.
3. Additional sampling was conducted in Classroom 1068 and Classroom 1075. The results were below baseline readings and did not indicate mold issues.

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

Recommendations:

- The Aspergillus|Penicillium spores detected above baseline numbers were likely caused by open windows and doors and normal fluctuations in outside spore counts and there was no visible mold observed. The spores detected of the genus Aspergillus|Penicillium are not a health issue.
- Moving forward, any suspected mold growth should be inspected by a qualified professional.
- Investigate sources of water leaks and any evidence of water staining.
- Inspect above drop ceilings and replace stained ceiling tiles.
- Inspect areas around building foundations.
- A detailed schedule of maintenance, for all HVAC and associated building systems, should be established, and adhered to.

Mold analytical results can be found in Appendix A.

6. Radon Gas Sampling Results

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

7. Formaldehyde Gas Sampling Results

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

8. TO+15 (VOC) Sampling Results

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

9. 4-PCH Sampling Results

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

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

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

Table 1

Multi-Gas Detector Readings				
Location	VOC	CO	OXYGEN	H2S
Main Office	0.0	0.0	20.8	0.0
Gym	0.0	0.0	20.8	0.0
Media Center	0.0	0.0	20.8	0.0
Cafeteria	0.0	0.0	20.8	0.0
Class 1072	0.0	0.0	20.8	0.0
Class 1032	0.0	0.0	20.8	0.0
Hall 1035/Cafeteria	0.0	0.0	20.8	0.0
Hall 1115	0.0	0.0	20.8	0.0
Class 1117	0.0	0.0	20.8	0.0
Class 1055	0.0	0.0	20.8	0.0
Hall 1062	0.0	0.0	20.8	0.0
Class 1064	0.0	0.0	20.8	0.0
Class 1055	0.0	0.0	20.8	0.0
Hall 1055	0.0	0.0	20.8	0.0
Class 1125	0.0	0.0	20.8	0.0

Table 2

Results of Analytes by Location						
Location	Radon	Mold		TO+15 VOCs	4PCH	Formaldehyde
		AVG: 75 F	AVG: 41 %			
Main Office	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Gym	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Media Center	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 1055	< 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
Class 1032	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hall 1035/Cafeteria	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hall 1115	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 1117	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 1055	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hall 1062	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 1125	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 1064	< 4 pCi/L	*Spore Ratio Anomaly*		< RSL	< 6.5 ug/m3	< RSL
Hall 1055	< 4 pCi/L	*Spore Ratio Anomaly*		< RSL	< 6.5 ug/m3	< RSL
Class 1072	< 4 pCi/L	*Spore Ratio Anomaly*		< RSL	< 6.5 ug/m3	< RSL
Class 1068	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Class 1075	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL

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

11. Quality Control Program

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

Appendix A: Mold Analytical Results

Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road
Suite B
Lorton, VA 22079

Phone: (571) 289-2173

4633 Taney Ave.
Alexandria, VA 22304

Collected: **September 30, 2021**
Received: **October 4, 2021**
Reported: **October 4, 2021**

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 16 samples by FedEx in good condition for this project on October 4th, 2021.

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

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



Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

Sample Number	1 4318798			2 4318808			3 4318792			4 4315619		
Sample Name	Main Office			Gym			Outdoor			Media Center		
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	3			2			2			2		
Fragments	13/m ³			ND			53/m ³			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							2	27	<1%			
Ascospores	3	40	42.9%	2	27	66.7%	512	6827	57.4%	2	27	50.0%
Aspergillus Penicillium							3	40	<1%			
Basidiospores	1	13	14.3%				224	2987	25.1%	1	13	25.0%
Bipolaris Drechslera												
Chaetomium												
Cladosporium							128	1707	14.3%			
Curvularia	1	13	14.3%	1	13	33.3%	1	13	<1%			
Epicoccum							10	133	1.1%			
Fusarium												
Memnoniella												
Myxomycetes	2	27	28.6%				12	160	1.3%			
Pithomyces										1	13	25.0%
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	7	93	100%	3	40	100%	892	11894	100%	4	53	100%

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

Collected: **Sep 30, 2021**

Received: **Oct 4, 2021**

Reported: **Oct 4, 2021**



Project Analyst:
 Ramesh Poluri, PhD

P. Ramesh

Date:
10 - 04 - 2021

Reviewed By:
 Steve Hayes, BSMT

Stephen N. Hayes

Date:
10 - 04 - 2021

Sample Number	5 4315629			6 4315123			7 4315139			8 4315635		
Sample Name	Cafeteria			Hall 1035/Cafe			Class 1072			Class 1032		
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			3			2		
Fragments	ND			13/m ³			13/m ³			ND		
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total
Alternaria												
Ascospores	6	80	100.0%	1	13	7.7%	1	13	<1%	5	67	50.0%
Aspergillus Penicillium				3	40	23.1%	288	3840	99.3%			
Basidiospores				1	13	7.7%				3	40	30.0%
Bipolaris Drechslera												
Chaetomium												
Cladosporium				6	80	46.2%	1	13	<1%	2	27	20.0%
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes				1	13	7.7%						
Pithomyces				1	13	7.7%						
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	6	80	100%	13	172	100%	290	3866	100%	10	134	100%

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



Collected: **Sep 30, 2021**

Received: **Oct 4, 2021**

Reported: **Oct 4, 2021**

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

Date:
10 - 04 - 2021

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

Date:
10 - 04 - 2021

Sample Number	9	4315118			10	4315129			11	4315140			12	4318797		
Sample Name	Hall 1055			Class 1055			Hall 1115			Class 1117						
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			13/m ³			ND			ND						
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total				
Alternaria																
Ascospores	2	27	33.3%	3	40	42.9%	3	40	75.0%	1	13	50.0%				
Aspergillus Penicillium																
Basidiospores							1	13	25.0%	1	13	50.0%				
Bipolaris Drechslera																
Chaetomium																
Cladosporium	3	40	50.0%	1	13	14.3%										
Curvularia	1	13	16.7%	2	27	28.6%										
Epicoccum																
Fusarium																
Memnoniella																
Myxomycetes				1	13	14.3%										
Pithomyces																
Stachybotrys																
Stemphylium																
Torula																
Ulocladium																
Total	6	80	100%	7	93	100%	4	53	100%	2	26	100%				

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

Collected: **Sep 30, 2021**

Received: **Oct 4, 2021**

Reported: **Oct 4, 2021**



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

Date:
10 - 04 - 2021

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

Date:
10 - 04 - 2021

Sample Number	13	4315639		14	4315130		15	4315160		16	4318803	
Sample Name	Hall 1053			Class 1059			Class 1064			Class 1125		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m ³			13 spores/m ³			13 spores/m ³			13 spores/m ³		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total
Alternaria												
Ascospores	1	13	2.3%	1	13	16.7%	3	40	7.0%	1	13	50.0%
Aspergillus Penicillium	43	573	97.7%	4	53	66.7%	40	533	93.0%			
Basidiospores												
Bipolaris Drechslera												
Chaetomium												
Cladosporium												
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes				1	13	16.7%				1	13	50.0%
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	44	586	100%	6	79	100%	43	573	100%	2	26	100%

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



Collected: **Sep 30, 2021**

Received: **Oct 4, 2021**

Reported: **Oct 4, 2021**

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

Date:
10 - 04 - 2021

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

Date:
10 - 04 - 2021

Spore Trap Information

Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.										
Blanks	Results have not been corrected for field or laboratory blanks.										
Background	<p>The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:</p> <p>NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</p> <p>1 : <5% of field occluded. No spores will be uncountable.</p> <p>2 : 5-25% of field occluded.</p> <p>3 : 25-75% of field occluded.</p> <p>4 : 75-90% of field occluded.</p> <p>5 : >90% of field occluded. Suggested recollection of sample.</p>										
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.										
Control Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments.										
<table border="1"> <tr> <td style="background-color: #ADD8E6;">Water Damage Indicator</td> <td>Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.</td> </tr> <tr> <td style="background-color: #90EE90;">Common Allergen</td> <td>Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.</td> </tr> <tr> <td style="background-color: #FFDAB9;">Slightly Higher than Baseline</td> <td>Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.</td> </tr> <tr> <td style="background-color: #FFB6C1;">Significantly Higher than Baseline</td> <td>Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.</td> </tr> <tr> <td style="background-color: #DDA0DD;">Ratio Abnormality</td> <td>Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.</td> </tr> </table>	Water Damage Indicator	Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.	Common Allergen	Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.	Slightly Higher than Baseline	Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.	Significantly Higher than Baseline	Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.	Ratio Abnormality	Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.	
Water Damage Indicator	Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.										
Common Allergen	Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.										
Slightly Higher than Baseline	Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.										
Significantly Higher than Baseline	Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.										
Ratio Abnormality	Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.										
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.										

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.
Cladosporium	Habitat: One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts. Effects: A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.
Curvularia	Habitat: They exist in soil and plant debris, and are plant pathogens. Effects: They are allergenic and a common cause of allergic fungal sinusitis. An occasional cause of human infection, including keratitis, sinusitis, onychomycosis, mycetoma, pneumonia, endocarditis and disseminated infection, primarily in the immunocompromised.

Epicoccum

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

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

Myxomycetes

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

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

Pithomyces

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

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

Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road
Suite B
Lorton, VA 22079

Phone: (571) 289-2173

Douglas MacArthur

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

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 3 samples by FedEx in good condition for this project on October 6th, 2021.

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

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



Steve Hayes, BSMT(ASCP)
Laboratory Director
Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419



Lab ID: #188863



DPH License: #PH-0198

Sample Number	1	DM-4318813			2	DM-4318793			3	DM-4318812		
Sample Name	OM - Outdoor			OM - Class 1068			OM- Class 1075					
Sample Volume	75.00 liter			75.00 liter			75.00 liter					
Reporting Limit	13 spores/m ³			13 spores/m ³			13 spores/m ³					
Background	2			2			2					
Fragments	27/m ³			ND			ND					
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total			
Alternaria	2	27	1.4%	1	13	6.3%						
Ascospores	74	987	52.9%	8	107	50.0%	4	53	66.7%			
Aspergillus Penicillium	14	187	10.0%	2	27	12.5%						
Basidiospores	9	120	6.4%									
Bipolaris Drechslera												
Chaetomium												
Cladosporium	34	453	24.3%	5	67	31.3%	2	27	33.3%			
Curvularia	2	27	1.4%									
Epicoccum	3	40	2.1%									
Fusarium												
Memnoniella												
Myxomycetes	2	27	1.4%									
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	140	1868	100%	16	214	100%	6	80	100%			

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



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

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

Spore Trap Information

Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.										
Blanks	Results have not been corrected for field or laboratory blanks.										
Background	<p>The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of <i>Aspergillus</i> and <i>Penicillium</i> may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:</p> <p>NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</p> <p>1 : <5% of field occluded. No spores will be uncountable.</p> <p>2 : 5-25% of field occluded.</p> <p>3 : 25-75% of field occluded.</p> <p>4 : 75-90% of field occluded.</p> <p>5 : >90% of field occluded. Suggested recollection of sample.</p>										
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.										
Control Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments.										
<table border="1"> <tr> <td style="background-color: #ADD8E6;">Water Damage Indicator</td> <td>Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.</td> </tr> <tr> <td style="background-color: #90EE90;">Common Allergen</td> <td>Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.</td> </tr> <tr> <td style="background-color: #FFDAB9;">Slightly Higher than Baseline</td> <td>Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.</td> </tr> <tr> <td style="background-color: #FFB6C1;">Significantly Higher than Baseline</td> <td>Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.</td> </tr> <tr> <td style="background-color: #DDA0DD;">Ratio Abnormality</td> <td>Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.</td> </tr> </table>	Water Damage Indicator	Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.	Common Allergen	Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.	Slightly Higher than Baseline	Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.	Significantly Higher than Baseline	Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.	Ratio Abnormality	Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.	
Water Damage Indicator	Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem.										
Common Allergen	Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors.										
Slightly Higher than Baseline	Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination.										
Significantly Higher than Baseline	Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.										
Ratio Abnormality	Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.										
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.										

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.
Cladosporium	Habitat: One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts. Effects: A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.
Curvularia	Habitat: They exist in soil and plant debris, and are plant pathogens. Effects: They are allergenic and a common cause of allergic fungal sinusitis. An occasional cause of human infection, including keratitis, sinusitis, onychomycosis, mycetoma, pneumonia, endocarditis and disseminated infection, primarily in the immunocompromised.

Epicoccum

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

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

Myxomycetes

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

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

Appendix B: Radon Analytical Results

Attention:

Kit #: 9731171 Result: < 0.3 pCi/l

Location:

Dm-1125 B

,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 5:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 95 hours 5.2% 70°F

Kit #: 9731172 Result: 0.6 ± 0.3 pCi/l

Location:

Dm-1064 D

,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 5:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 95 hours 11.6% 70°F

Kit #: 9731173 Result: < 0.3 pCi/l

Location:

Dm-Media Center 1

,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 5:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 95 hours 7.5% 70°F

Kit #: 9731184 Result: 0.5 ± 0.3 pCi/l

Location:

Dm-Gym

,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 5:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 95 hours 12.3% 70°F

Kit #: 9731185 Result: < 0.3 pCi/l

Location:

Dm-1059

,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 5:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 95 hours 11.5% 70°F

Kit #: 9731186 Result: ????

Location:

Dm-Blank

,

Analysis Note : IB2

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-10-04 at 5:00 pm

Ended : 2021-10-04 at 5:00 pm

Hours/MST% : 0 hours 9.6% 70°F

Attention:

Kit #: 9731187 Result: < 0.3 pCi/l

Location:

Dm-Hall 1055
,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 6:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 94 hours 10.9% 70°F

Kit #: 9731188 Result: < 0.3 pCi/l

Location:

Dm-Gym
,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 5:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 95 hours 12.2% 70°F

Kit #: 9731189 Result: 0.5 ± 0.3 pCi/l

Location:

Dm-1117 D
,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 5:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 95 hours 10.9% 70°F

Kit #: 9731190 Result: 0.5 ± 0.3 pCi/l

Location:

Dm-Hall 1053
,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 5:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 95 hours 12.1% 70°F

Kit #: 9731193 Result: < 0.3 pCi/l

Location:

Dm-Cafe 2
,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 6:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 94 hours 8.8% 70°F

Kit #: 9731194 Result: < 0.3 pCi/l

Location:

Dm-1055
,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 5:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 95 hours 11.7% 70°F

Attention:

Kit #: 9731195 Result: 0.7 ± 0.3 pCi/l

Location:

Dm-Main Admin
,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 5:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 95 hours 8.9% 70°F

Kit #: 9731196 Result: 0.7 ± 0.3 pCi/l

Location:

Dm-Hall 1115
,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 5:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 95 hours 9.7% 70°F

Kit #: 9731198 Result: 0.6 ± 0.3 pCi/l

Location:

Dm-1064
,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 5:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 95 hours 10.9% 70°F

Kit #: 9731200 Result: 0.7 ± 0.3 pCi/l

Location:

Dm-Hall 1035/Cafe
,

Analysis Note :

Analyzed : 2021-10-06 at 11:00 am

Started : 2021-09-30 at 6:00 pm

Ended : 2021-10-04 at 4:00 pm

Hours/MST% : 94 hours 9.6% 70°F

Appendix C: VOCs (TO+15) Analytical Results

Project Name: ACPS IAQ
PSS Project No.: 21100120

October 12, 2021

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



Reference: PSS Project No: **21100120**
Project Name: ACPS IAQ
Project Location: Douglass MacArthur
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) **21100120**.


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 November 5, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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

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

Sincerely,


Dan Prucnal

Laboratory Manager

Explanation of Qualifiers

Project Name: ACPS IAQ
 PSS Project No.: 21100120

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/01/2021 at 05:30 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21100120-001	DM- Main Admin	AIR	09/30/21 20:05
21100120-002	DM- Gym	AIR	09/30/21 20:06
21100120-003	DM- Media Center	AIR	09/30/21 20:08
21100120-004	DM- Cafeteria	AIR	09/30/21 20:11
21100120-005	DM- Class 1072	AIR	09/30/21 20:13
21100120-006	DM- Class 1032	AIR	09/30/21 20:15
21100120-007	DM- Hall 1115	AIR	09/30/21 20:08
21100120-008	DM- Class 1117	AIR	09/30/21 20:09
21100120-009	DM- Class 1125	AIR	09/30/21 20:10
21100120-010	DM- Class 1059	AIR	09/30/21 20:12
21100120-011	DM- Hall 1061-1062	AIR	09/30/21 20:13
21100120-012	DM- Class 1064	AIR	09/30/21 20:16
21100120-013	DM- Class 1055	AIR	09/30/21 20:19
21100120-014	DM- Hall 1053	AIR	09/30/21 20:21
21100120-015	DM- Outdoor	AIR	09/30/21 19:56

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

Notes:

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

Explanation of Qualifiers

Project Name: ACPS IAQ

PSS Project No.: 21100120

Standard Flags/Abbreviations:

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

Certifications:

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



GALSON

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

October 12, 2021

Account# 15354

Login# L548280

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on October 05, 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

Legend

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



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID:		L548280-1		L548280-2		L548280-3	
	Client ID:		DM-MAIN ADMIN		DM-GYM		DM-MEDIA CENTER	
	LOQ	LOQ	ppbv	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	1.6	8.0	<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	1.1	2.6	<0.80	<1.9	1.2	2.7
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	17	40	8.6	21	15	35

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

Approved by : JMR
Date : 12-OCT-21

Supervisor: BLD



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-1		L548280-2		L548280-3			
	Client ID: DM-MAIN ADMIN		DM-GYM		DM-MEDIA CENTER			
	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	63	160	23	57	51	130
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	4.7	14	2.1	6.2	2.3	6.8
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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-1		L548280-2		L548280-3			
	Client ID: DM-MAIN ADMIN		DM-GYM		DM-MEDIA CENTER			
	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	<0.80	<2.4
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	1.0	3.6	<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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-1		L548280-2		L548280-3			
	Client ID: DM-MAIN ADMIN		DM-GYM		DM-MEDIA CENTER			
	LOQ	LOQ	ppbv	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	1.0	3.9	1.1	4.0	<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
Collection Media : Mini Can
Submitted by : SAP

Supervisor: BLD
Approved by : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-1		L548280-2		L548280-3			
	Client ID: DM-MAIN ADMIN		DM-GYM		DM-MEDIA CENTER			
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

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

Supervisor: BLD
Approved by : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-1		L548280-2		L548280-3			
	Client ID: DM-MAIN ADMIN		DM-GYM		DM-MEDIA CENTER			
	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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-4		L548280-5		L548280-6			
	Client ID: DM-CAFETERIA		DM-CLASS 1072		DM-CLASS 1032			
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	7.0	12	<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	2.3	5.5	1.7	4.1	<0.80	<1.9
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	13	30	14	32	11	27

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

Supervisor: BLD
Approved by : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-4		L548280-5		L548280-6			
	Client ID: DM-CAFETERIA		DM-CLASS 1072		DM-CLASS 1032			
	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	30	74	13	33	30	73
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	3.2	9.4	1.8	5.2	3.2	9.4
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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID:		L548280-4		L548280-5		L548280-6	
	Client ID:		DM-CAFETERIA		DM-CLASS 1072		DM-CLASS 1032	
	LOQ	LOQ	ppbv	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	<0.80	<2.4
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	1.3	4.8	<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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-4		L548280-5		L548280-6			
	Client ID: DM-CAFETERIA		DM-CLASS 1072		DM-CLASS 1032			
	LOQ	LOQ	ppbv	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	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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-4		L548280-5		L548280-6			
	Client ID: DM-CAFETERIA		DM-CLASS 1072		DM-CLASS 1032			
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

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

Supervisor: BLD
Approved by : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: Client ID:		L548280-4 DM-CAFETERIA		L548280-5 DM-CLASS 1072		L548280-6 DM-CLASS 1032	
	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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-7		L548280-8		L548280-9			
	Client ID: DM-HALL 1115		DM-CLASS 1117		DM-CLASS 1125			
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	<0.80	<1.9	<0.80	<1.9	<0.80	<1.9
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	15	36	16	39	9.5	23

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

Supervisor: BLD
Approved by : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-7		L548280-8		L548280-9			
	Client ID: DM-HALL 1115		DM-CLASS 1117		DM-CLASS 1125			
	LOQ	LOQ	ppbv	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	57	140	69	170	33	81
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	7.9	23	7.4	22	5.9	17
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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-7		L548280-8		L548280-9			
	Client ID: DM-HALL 1115		DM-CLASS 1117		DM-CLASS 1125			
	LOQ	LOQ	ppbv	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	<0.80	<2.4
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	1.1	3.8	1.0	3.7	<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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
 Site : DOUGLASS MACARTHUR Login No. : L548280
 Project No. : ACPS IAQ TESTING
 Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
 Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-7		L548280-8		L548280-9			
	Client ID: DM-HALL 1115		DM-CLASS 1117		DM-CLASS 1125			
	LOQ	LOQ	ppbv	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	3.3	0.90	3.2	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
 Collection Media : Mini Can
 Submitted by : SAP

Supervisor: BLD
 Approved by : JMR
 Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-7		L548280-8		L548280-9			
	Client ID: DM-HALL 1115		DM-CLASS 1117		DM-CLASS 1125			
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2
Cumene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
2-Chlorotoluene	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1

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

Supervisor: BLD
Approved by : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
 Site : DOUGLASS MACARTHUR Login No. : L548280
 Project No. : ACPS IAQ TESTING
 Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
 Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

Galson ID:	L548280-7	L548280-8	L548280-9
Client ID:	DM-HALL 1115	DM-CLASS 1117	DM-CLASS 1125

	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 : JMR
 Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

Galson ID:	L548280-10	L548280-11	L548280-12
Client ID:	DM-CLASS 1059	DM-HALL 1061-1063	DM-CLASS 1064

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	<0.80	<1.9	<0.80	<1.9	<0.80	<1.9
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	25	58	19	46	20	47

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

Supervisor: BLD
Approved by : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

Galson ID:	L548280-10	L548280-11	L548280-12
Client ID:	DM-CLASS 1059	DM-HALL 1061-1063	DM-CLASS 1064

	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	72	180	55	140	51	120
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	28	83	23	69	24	70
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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-10		L548280-11		L548280-12			
	Client ID: DM-CLASS 1059		DM-HALL 1061-1063		DM-CLASS 1064			
	LOQ	LOQ	ppbv	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	<0.80	<2.4
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	3.0	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	1.9	6.8	<0.80	<2.9	0.80	3.0
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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-10		L548280-11		L548280-12			
	Client ID: DM-CLASS 1059		DM-HALL 1061-1063		DM-CLASS 1064			
	LOQ	LOQ	ppbv	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	1.3	4.7	0.90	3.4	1.0	3.9
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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

Galson ID:	L548280-10	L548280-11	L548280-12
Client ID:	DM-CLASS 1059	DM-HALL 1061-1063	DM-CLASS 1064

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

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

Supervisor: BLD
Approved by : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-10		L548280-11		L548280-12			
	Client ID: DM-CLASS 1059		DM-HALL 1061-1063		DM-CLASS 1064			
	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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

Galson ID:	L548280-13	L548280-14	L548280-15
Client ID:	DM-CLASS 1055	DM-HALL 1053	DM-OUTDOOR

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	<0.80	<1.9	1.8	4.2	<0.80	<1.9
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	9.8	23	12	29	<5.0	<12

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

Supervisor: BLD
Approved by : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

Galson ID: L548280-13 L548280-14 L548280-15
Client ID: DM-CLASS 1055 DM-HALL 1053 DM-OUTDOOR

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	32	79	30	73	<5.0	<12
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	7.2	21	10	30	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

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

Supervisor: BLD
Approved by : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

	Galson ID: L548280-13		L548280-14		L548280-15			
	Client ID: DM-CLASS 1055		DM-HALL 1053		DM-OUTDOOR			
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<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	<0.80	<2.4
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	3.0	1.1	3.8	<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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

Galson ID: L548280-13 L548280-14 L548280-15
Client ID: DM-CLASS 1055 DM-HALL 1053 DM-OUTDOOR

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	3.3	13	1.7	6.5	<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
Collection Media : Mini Can
Submitted by : SAP

Approved by : JMR
Date : 12-OCT-21

Supervisor: BLD



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

Galson ID: L548280-13 L548280-14 L548280-15
Client ID: DM-CLASS 1055 DM-HALL 1053 DM-OUTDOOR

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Dibromochloromethane	0.80	6.8	<0.80	<6.8	<0.80	<6.8	<0.80	<6.8
1,2-Dibromoethane	0.80	6.1	<0.80	<6.1	<0.80	<6.1	<0.80	<6.1
Tetrachloroethylene	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
Chlorobenzene	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Ethylbenzene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
m & p-Xylene	1.6	6.9	<1.6	<6.9	<1.6	<6.9	<1.6	<6.9
Bromoform	0.80	8.3	<0.80	<8.3	<0.80	<8.3	<0.80	<8.3
Styrene	0.80	3.4	<0.80	<3.4	<0.80	<3.4	<0.80	<3.4
1,1,2,2-Tetrachloroethane	0.80	5.5	<0.80	<5.5	<0.80	<5.5	<0.80	<5.5
o-Xylene	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Nonane	0.80	4.2	<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 : JMR
Date : 12-OCT-21



GALSON

LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

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

Client : Phase Separation Science, Inc. Account No.: 15354
Site : DOUGLASS MACARTHUR Login No. : L548280
Project No. : ACPS IAQ TESTING
Date Sampled : 30-SEP-21 Date Analyzed : 11-OCT-21 - 12-OCT-21
Date Received : 05-OCT-21 Report ID : 1269213

TO15 List

Galson ID: L548280-13 L548280-14 L548280-15
Client ID: DM-CLASS 1055 DM-HALL 1053 DM-OUTDOOR

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

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

Supervisor: BLD
Approved by : JMR
Date : 12-OCT-21



GALSON

LABORATORY FOOTNOTE REPORT

Client Name : Phase Separation Science, Inc.
Site : DOUGLASS MACARTHUR
Project No. : ACPS IAQ TESTING

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

Date Sampled : 30-SEP-21 Account No.: 15354
Date Received: 05-OCT-21 Login No. : L548280
Date Analyzed: 11-OCT-21 - 12-OCT-21

L548280 (Report ID: 1269213):

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)

L548280-5,11,13-14 (Report ID: 1269213):

Sample canister was received at/near ambient pressure.

L548280-9-14 (Report ID: 1269213):

Acetone result may be biased high due to co-elution with 2-methylbutane.

L548280-4 (Report ID: 1269213):

Propylene results may be biased high due to co-elution with Propane.

L548280 (Report ID: 1269213):

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	+/-14%	98.9%
1,1,2-Trichloroethane	+/-12.6%	97.6%
1,1-Dichloroethane	+/-15.4%	96.5%
1,1-Dichloroethene	+/-15.7%	98.2%
1,2,4-Trimethylbenzene	+/-15%	105%
1,2-Dibromoethane	+/-13.5%	99.8%
1,2-Dichlorobenzene	+/-12.4%	103%
1,2-Dichloroethane	+/-17.6%	98.6%
1,2-Dichloropropane	+/-14.8%	96.2%
1,3,5-Trimethylbenzene	+/-13.2%	103%
1,3-Dichlorobenzene	+/-12.6%	102%
1,4-Dichlorobenzene	+/-13.3%	102%
2,2,4-Trimethylpentane	+/-15.1%	97.9%
2-Chlorotoluene	+/-13.2%	104%
4-Ethyltoluene	+/-13.9%	104%
Acrolein	+/-21.8%	93.1%
Acrylonitrile	+/-16.4%	97.9%
Allyl Chloride	+/-18.7%	97.5%
Acetonitrile	+/-17.4%	100%
Acetone	+/-14.6%	97.4%
Bromodichloromethane	+/-12.9%	100%



GALSON

LABORATORY FOOTNOTE REPORT

Client Name : Phase Separation Science, Inc.
Site : DOUGLASS MACARTHUR
Project No. : APCS IAQ TESTING

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

Date Sampled : 30-SEP-21 Account No.: 15354
Date Received: 05-OCT-21 Login No. : L548280
Date Analyzed: 11-OCT-21 - 12-OCT-21

Bromoform	+/-14.4%	103%
1,3-Butadiene	+/-16.9%	97.5%
n-Butane	+/-18.2%	95.9%
Benzene	+/-13.3%	97.3%
Benzyl Chloride	+/-15%	109%
Carbon Disulfide	+/-13.8%	96.5%
Carbon Tetrachloride	+/-15.7%	100%
cis-1,2-Dichloroethylene	+/-16%	98.6%
cis-1,3-Dichloropropene	+/-14.6%	101%
Chlorobenzene	+/-13.3%	97.5%
Dibromochloromethane	+/-13%	102%
Chloroform	+/-14.1%	97.7%
Cumene	+/-13.9%	101%
Cyclohexane	+/-15.1%	100%
1,4-Dioxane	+/-13.7%	101%
Ethyl Acetate	+/-17.9%	98.4%
Ethylbenzene	+/-14.7%	101%
Chloroethane	+/-16.7%	96.9%
Ethyl Bromide	+/-13%	97.4%
Freon-11	+/-15.5%	99.4%
Freon-113	+/-13.2%	96.7%
Freon-114	+/-14.5%	98.8%
Freon-12	+/-15.3%	99.2%
Heptane	+/-16.1%	99.1%
Isopropyl Alcohol	+/-20.8%	96.3%
1,1,1-Trichloroethane	+/-15.1%	99.2%
Bromomethane	+/-13%	97%
Chloromethane	+/-17.9%	96.3%
Methylene Chloride	+/-14.4%	93.4%
Methyl Ethyl Ketone	+/-17.7%	97.8%
Methyl Methacrylate	+/-16%	102%
Methyl Isobutyl Ketone	+/-18.2%	99.4%
Methyl Butyl Ketone	+/-18.7%	105%
m & p-Xylene	+/-14%	100%
Methyl tert-Butyl Ether	+/-15.4%	100%
Naphthalene	+/-20.2%	111%
Hexane	+/-15.6%	98.1%
Nonane	+/-16.7%	103%
n-Propylbenzene	+/-13.2%	103%
o-Xylene	+/-13.9%	101%
Propylene	+/-18.8%	96.3%
Pentane	+/-17.9%	97.1%
Styrene	+/-15.2%	104%
Trichloroethylene	+/-12.8%	98.8%
tert-Butyl Alcohol	+/-18.4%	101%



GALSON

LABORATORY FOOTNOTE REPORT

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

Client Name : Phase Separation Science, Inc.
Site : DOUGLASS MACARTHUR
Project No. : ACPS IAQ TESTING

Date Sampled : 30-SEP-21 Account No.: 15354
Date Received: 05-OCT-21 Login No. : L548280
Date Analyzed: 11-OCT-21 - 12-OCT-21

Tetrachloroethylene	+/-13.1%	98.9%
Tetrahydrofuran	+/-19%	99%
Toluene	+/-14.4%	99.6%
trans-1,2-Dichloroethene	+/-15.8%	97.6%
trans-1,3-Dichloropropene	+/-14.8%	103%
Vinyl Acetate	+/-22.4%	96.1%
Vinyl Bromide	+/-13.8%	97.7%
Vinyl Chloride	+/-15.6%	97.7%

1Z2313E40165539869
 Date: 10/05/21
 Shipper: UPS
 Initials: MAK

1548280

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

Invoice To*: Phase Separation Science



Prep: UNKNOWN

Client Account No.*: _____

1Z2313E40165932079
 Date: 10/05/21
 Shipper: UPS
 Initials: MAK

Phone No.*: 410-747-8770

Phone No.: 410-747-8770

Cell No.: _____

Email: invoicing@phaseonline.com

Email Results to: Amber Confer

P.O. No.: _____

Email address: reporting@phaseonline.com

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



Prep: UNKNOWN

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

Need Results By:	(surcharge)		
<input checked="" type="checkbox"/> Standard	0%	Site Name: Douglass MacArthur	Project: ACPS IAQ Testing
<input type="checkbox"/> 4 Business Days	35%	Sampled by: Client	
<input type="checkbox"/> 3 Business Days	50%	Comments:	
<input type="checkbox"/> 2 Business Days	75%	* Sample ID is DM-Hall 1061-1063, NO 1063 SL 105121	
<input type="checkbox"/> Next Day by 6pm	100%	List description of industry or Process/interferences present in sampling area:	State samples were collected in (e.g., NY)
<input type="checkbox"/> Next Day by Noon	150%		VA
<input type="checkbox"/> Same Day	200%		Please indicate which OEL this data will be used for:
			<input type="checkbox"/> OSHA PEL <input type="checkbox"/> ACGIH TLV <input type="checkbox"/> Cal OSHA
			<input type="checkbox"/> MSHA <input type="checkbox"/> Other (specify):

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml, min, in, 2, cm, ft ²	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
DM- Main Admin	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
DM- Gym	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
DM- Media Center	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
DM- Cafeteria	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
DM- Class 1072	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
DM- Class 1032	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
DM- Hall 1115	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
DM- Class 1117	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
DM- Class 1125	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
DM- Class 1059	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
* DM- Hall 1061-1062	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	

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

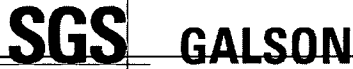
For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

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

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by:	<i>Amber Confer</i>	10/4/21		Received by: UPS	10/5/21	11:00
Relinquished by:				Received by: Michelle Kruse		

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

* Required for all reports to Report Reference. Generated on 10/05/21 11:05 AM. Page 39 of 45



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

Invoice To* : Phase Separation Science

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

www.sgsgalson.com

Client Account No.*: _____

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)	Site Name : Douglass MacArthur	Project : ACPS IAQ Testing	Sampled by : Client
<input checked="" type="checkbox"/> Standard	0%	Comments :		
<input type="checkbox"/> 4 Business Days	35%			
<input type="checkbox"/> 3 Business Days	50%			
<input type="checkbox"/> 2 Business Days	75%			
<input type="checkbox"/> Next Day by 6pm	100%			
<input type="checkbox"/> Next Day by Noon	150%	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 : <input type="checkbox"/> OSHA PEL <input type="checkbox"/> ACGIH TLV <input type="checkbox"/> Cal OSHA <input type="checkbox"/> MSHA <input type="checkbox"/> Other (specify):
<input type="checkbox"/> Same Day	200%			

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in,2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
DM- Class 1064	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
DM- Class 1055	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
DM- Hall 1053	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
DM- Outdoor	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	

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

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

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

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by :				Received by :		
Relinquished by :				Received by: Michelle Krause	10/5/21	11:10

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

* Required for all reports to be generated. Report Reference: Generated on 10/21/2025

Page ___ of ___



Chain of Custody Form for Subcontracted Analyses

gray cant

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

W.O. No. : **21100120**
Project Location : Douglass MacArthur
Project Number : 4920002
Report To LOD : No

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

For Questions or issues please contact: Amber Confer

Report Due On : 10/12/21 05:00

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21100120-001	DM- Main Admin	09/30/21	20:05	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-002	DM- Gym	09/30/21	20:06	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-003	DM- Media Center	09/30/21	20:08	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-004	DM- Cafeteria	09/30/21	20:11	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-005	DM- Class 1072	09/30/21	20:13	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-006	DM- Class 1032	09/30/21	20:15	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-007	DM- Hall 1115	09/30/21	20:08	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-008	DM- Class 1117	09/30/21	20:09	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-009	DM- Class 1125	09/30/21	20:10	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-010	DM- Class 1059	09/30/21	20:12	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-011	DM- Hall 1061-1062	09/30/21	20:13	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-012	DM- Class 1064	09/30/21	20:16	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-013	DM- Class 1055	09/30/21	20:19	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-014	DM- Hall 1053	09/30/21	20:19	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21100120-015	DM- Outdoor	09/30/21	19:56	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON

Data Deliverables Required: **COA**

Perform Q.C. on Sample : _____

Send Report Attn : reporting@phaseonline.com

Send Invoice Attn : invoicing@phaseonline.com

Airbill No. : _____ Carrier : UPS

Condition Upon Receipt : _____

Comments : * 2 boxes *
on 10/11/21

Samples Relinquished By : amrcan Date : 10/11/21 Time : _____ Samples Received By : _____

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

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

Page 38 of 38 Report Reference: Generated: 12-OCT-21 13:25
Michelle Krause 10/19/21 11:10

Case Narrative

Project Name: ACPS IAQ

PSS Project No.: 21100120

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.

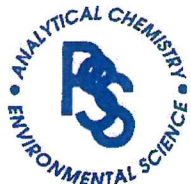
Sample Receipt:

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

Incoming pressures not taken upon receipt; incoming pressures will be taken by subcontracting lab.

21100120: 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: Douglass MacArthur P.O. NO.: SAMPLER(S): Channing Jackson, Margaret Stanger						PSS Work Order #: 21160120				PAGE <u>1</u> OF <u>2</u>					
						3 * (3) Can ID *	Sample Reg. ID *	Canister Pressure * in field ("Hg) Start	Canister Pressure * in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	Soil Gas / Subslab *	Indoor/Ambient Air *	TO-15 Full List	Special List	REMARKS
LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)	Can ID *	Sample Reg. ID *	Canister Pressure * in field ("Hg) Start	Canister Pressure * in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	Soil Gas / Subslab *	Indoor/Ambient Air *	TO-15 Full List	Special List	REMARKS
1	DM - Main Admin	9/30/21	16:07	9/30/21	20:05	WA593	6070	35.0	10.0		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	DM - Gym	9/30/21	16:10	9/30/21	20:06	WA662	4370	30.0	5.0		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	DM - Media Center	9/30/21	16:12	9/30/21	20:08	WA586	6396	35.0	8.0		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	DM - Cafeteria	9/30/21	16:14	9/30/21	20:11	WA669	4366	35.0	4.0		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	DM - Class 1072	9/30/21	16:22	9/30/21	20:13	2323	11486	26.0	0.0		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6	DM - Class 1032	9/30/21	16:25	9/30/21	20:15	WA242	10728	35.0	12.0		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7	DM - Hall 1115	9/30/21	16:08	9/30/21	20:08	WA670	WR834	27.0	8.0		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8	DM - Class 1117	9/30/21	16:10	9/30/21	20:09	1346	6390	27.0	3.0		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9	DM - Class 1125	9/30/21	16:13	9/30/21	20:10	1384	5919	30+	9.0		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10	DM - Class 1059	9/30/21	16:18	9/30/21	20:12	WA630	12756	30+	7.0		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Relinquished By: (1) Channing Jackson		Date 10/1/21	Time 12:30 12:00	Received By: 		4 *Requested TAT (One TAT per COC) <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other				Shipping Carrier: Client					
Relinquished By: (2)		Date	Time	Received By:		Data Deliverables Required:									
Relinquished By: (3)		Date	Time	Received By:		Special Instructions:									
Relinquished By: (4)		Date	Time	Received By:											

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

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Sample Receipt Checklist

Project Name: ACPS IAQ
 PSS Project No.: 21100120

Client Name	Total Environmental Concepts - Lortc	Received By	Brad Crozier
Disposal Date	11/05/2021	Date Received	10/01/2021 05:30:00 PM
		Delivered By	Client
		Tracking No	Not Applicable
		Logged In By	Amber Confer

Shipping Container(s)

No. of Coolers 0

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

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

Documentation

COC agrees with sample labels? Yes
 Chain of Custody Yes

Sampler Name C. Jackson, M. Stanger
 MD DW Cert. No. N/A

Sample Container

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

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

Holding Time

All Samples Received Within Holding Time(s)? Yes

Total No. of Samples Received 15
 Total No. of Containers Received 15

Preservation

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

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

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

Soil gas/indoor air not indicated on COC; samples are indoor air.
 Incoming pressures not taken upon receipt; incoming pressures will be taken by subcontracting lab.

Samples Inspected/Checklist Completed By: Amber Confer Date: 10/04/2021

PM Review and Approval: N.J. Jackson Date: 10/04/2021

Appendix D: Formaldehyde Analytical Results

Project Name: ACPS IAQ
PSS Project No.: 21100408

October 13, 2021

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



Reference: PSS Project No: **21100408**
Project Name: ACPS IAQ
Project Location: Douglass MacArthur
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) **21100408**.


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 November 8, 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



Project Name: ACPS IAQ
PSS Project No.: 21100408

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/04/2021 at 02:35 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21100408-001	DM- Main Admin	AIR	09/30/21 00:00
21100408-002	DM- Gym	AIR	09/30/21 00:00
21100408-003	DM- Media Center	AIR	09/30/21 00:00
21100408-004	DM- Cafeteria	AIR	09/30/21 00:00
21100408-005	DM- Class 1072	AIR	09/30/21 00:00
21100408-006	DM- Class 1032	AIR	09/30/21 00:00
21100408-007	DM- Hall 1115	AIR	09/30/21 00:00
21100408-008	DM- Class 1117	AIR	09/30/21 00:00
21100408-009	DM- Class 1125	AIR	09/30/21 00:00
21100408-010	DM- Class 1059	AIR	09/30/21 00:00
21100408-011	DM- Hall 1061-1062	AIR	09/30/21 00:00
21100408-012	DM- Class 1064	AIR	09/30/21 00:00
21100408-013	DM- Class 1055	AIR	09/30/21 00:00
21100408-014	DM- Hall 1053	AIR	09/30/21 00:00
21100408-015	DM- 1035/Cafe	AIR	09/30/21 00:00

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

Notes:

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

Explanation of Qualifiers

Project Name: ACPS IAQ

PSS Project No.: 21100408

Standard Flags/Abbreviations:

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

Certifications:

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



GALSON

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

October 12, 2021

Account# 15354

Login# L548409

Dear Ms. Confer:

Enclosed are the analytical results for the samples received by our laboratory on October 06, 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

Legend

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



GALSON

LABORATORY ANALYSIS REPORT

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

Client : Phase Separation Science, Inc. Account No.: 15354
 Site : DOUGLASS MACARTHUR Login No. : L548409
 Project No. : ACPS IAQ TESTING - 4920002
 Date Sampled : 30-SEP-21 Date Analyzed : 08-OCT-21
 Date Received : 06-OCT-21 Report ID : 1268929

Formaldehyde

<u>Sample ID</u>	<u>Lab ID</u>	<u>Time minutes</u>	<u>Total ug</u>	<u>Conc mcg/m3</u>	<u>ppm</u>
DM - MAIN ADMIN	L548409-1	257	<0.4	<0.01	<0.01
DM - GYM	L548409-2	258	<0.4	<0.01	<0.01
DM - MEDIA CENTER	L548409-3	258	<0.4	<0.01	<0.01
DM - CAFETERIA	L548409-4	258	<0.4	<0.01	<0.01
DM - CLASS 1072	L548409-5	258	<0.4	<0.01	<0.01
DM - CLASS 1032	L548409-6	256	<0.4	<0.01	<0.01
DM - HALL 1115	L548409-7	255	<0.4	<0.01	<0.01
DM - CLASS 1117	L548409-8	255	<0.4	<0.01	<0.01
DM - CLASS 1125	L548409-9	255	<0.4	<0.01	<0.01
DM - CLASS 1059	L548409-10	256	<0.4	<0.01	<0.01
DM - HALL 1061-1062	L548409-11	257	<0.4	<0.01	<0.01
DM - CLASS 1064	L548409-12	256	0.4	0.01	0.01
DM - CLASS 1055	L548409-13	258	<0.4	<0.01	<0.01
DM - HALL 1053	L548409-14	255	<0.4	<0.01	<0.01
DM - 1035/CAFE	L548409-15	259	<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: CAS/JLL
 Date : 11-OCT-21
 Supervisor : MWJ

Approved by: NKP



GALSON

LABORATORY FOOTNOTE REPORT

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

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

Date Sampled : 30-SEP-21 Account No.: 15354
Date Received: 06-OCT-21 Login No. : L548409
Date Analyzed: 08-OCT-21

L548409 (Report ID: 1268929):

Total ug corrected for a desorption efficiency of 96%.
FORMALDEHYDE results have been corrected for the average background found on the media:
0.1305 ug for lot #12B20 (sample 14).
FORMALDEHYDE results have been corrected for the average background found on the media:
0.1178 ug for lot #4B21 (samples 1-13,15).
SOPs: LC-SOP-4(23)

L548409 (Report ID: 1268929):

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%

LB48409

21100408

122313E40165129938
Date: 10/06/21
Shipper: UPS
Initials: MAK
Prep: UNKNOWN

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

Invoice To*: Phase Separation Science
Phone No.: 410-747-8770
Email: invoicing@phaseonline.com
P.O. No.: ODC 4920002-001
Credit Card: Card on File Call for Credit Card Info.

37-38

www.sgsgalson.com

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

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

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units: L, ml, min, in2, cm2, ft2	Analysis Requested*	Method Reference ^A	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
DM - Main Admin	09/30/21	Assay N581 Aldehyde Badge	257	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4242
DM - Gym	09/30/21	Assay N581 Aldehyde Badge	258	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4357
DM - Media Center	09/30/21	Assay N581 Aldehyde Badge	258	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4547
DM - Cafeteria	09/30/21	Assay N581 Aldehyde Badge	258	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4192
DM - Class 1072	09/30/21	Assay N581 Aldehyde Badge	258	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4223
DM - Class 1032	09/30/21	Assay N581 Aldehyde Badge	256	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4624
DM - Hall 1115	09/30/21	Assay N581 Aldehyde Badge	255	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4661
DM - Class 1117	09/30/21	Assay N581 Aldehyde Badge	255	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4268
DM - Class 1125	09/30/21	Assay N581 Aldehyde Badge	255	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5572
DM - Class 1059	09/30/21	Assay N581 Aldehyde Badge	256	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5133
DM - Hall 1061-1062	09/30/21	Assay N581 Aldehyde Badge	257	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4322

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

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

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

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by:	Channing Jackson	10/04/21	14:35	Received by:		
Relinquished by:				Received by: Michelle Krause	10/10/21	1044

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 5 of 7 Report Reference: 1 Generated: 12-OCT-21 11:07

21100408

SGS GALSON

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

Invoice To*: Phase Separation Science
 Phone No.: 410-747-8770
 Email: invoicing@phaseonline.com
 P.O. No.: ODC 4920002-001
 Credit Card: Card on File Call for Credit Card Info.

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

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

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

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units* L, ml, min, in2, cm2, ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
DM - Class 1064	09/30/21	Assay N581 Aldehyde Badge	256	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4204
DM - Class 1055	09/30/21	Assay N581 Aldehyde Badge	258	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5481
DM - Hall 1053	09/30/21	Assay N581 Aldehyde Badge	255	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	OZ5533
DM - 1035/Cafe	09/30/21	Assay N581 Aldehyde Badge	259	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4842

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

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

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

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by:	Channing Jackson	10/04/21	14:35	Received by:		
Relinquished by:				Received by:	Michelle Krance	10/6/21 1046

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

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

Page 1 of 2



Chain of Custody Form for Subcontracted Analyses

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

W.O. No. : 21100408
Project Location : Douglass MacArthur
Project Number : 4920002
Report To LOD : No

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

For Questions or issues please contact: Amber Confer

Report Due On : 10/13/21 05:00

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21100408-001	DM- Main Admin	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-002	DM- Gym	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-003	DM- Media Center	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-004	DM- Cafeteria	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-005	DM- Class 1072	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-006	DM- Class 1032	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-007	DM- Hall 1115	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-008	DM- Class 1117	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-009	DM- Class 1125	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-010	DM- Class 1059	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-011	DM- Hall 1061-1062	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-012	DM- Class 1064	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-013	DM- Class 1055	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-014	DM- Hall 1053	09/30/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21100408-015	DM- 1035/Cafe	09/30/21	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 Invoice Attn : invoicing@phaseonline.com

Airbill No.: _____ Carrier : UPS

Condition Upon Receipt : _____

Comments : _____

Samples Relinquished By : Amber Confer Date : 10/5/21 Time : _____ Samples Received By : _____

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

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

Page 7 of 7 Report Reference: 1, Generated: 10/13/21 11:05 AM by Michelle Kyranski 10/14/21 10:46

Case Narrative

Project Name: ACPS IAQ

PSS Project No.: 21100408

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.

21100408: 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.

21100408



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

Invoice To* : Phase Separation Science

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

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

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

www.sgsgalson.com

Email Results to : Amber Confer
Email address: reporting@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)
<input checked="" type="checkbox"/> Standard	0%
<input type="checkbox"/> 4 Business Days	35%
<input type="checkbox"/> 3 Business Days	50%
<input type="checkbox"/> 2 Business Days	75%
<input type="checkbox"/> Next Day by 6pm	100%
<input type="checkbox"/> Next Day by Noon	150%
<input type="checkbox"/> Same Day	200%

Site Name : Douglass MacArthur Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :
Dosimeter cartridge # noted in the (Hexavalent 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* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units* L, ml, min, in, 2, cm, ft, 2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
DM - Main Admin	09/30/21	Assay N581 Aldehyde Badge	257	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4242
DM - Gym	09/30/21	Assay N581 Aldehyde Badge	258	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4357
DM - Media Center	09/30/21	Assay N581 Aldehyde Badge	258	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4547
DM - Cafeteria	09/30/21	Assay N581 Aldehyde Badge	258	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4192
DM - Class 1072	09/30/21	Assay N581 Aldehyde Badge	258	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4223
DM - Class 1032	09/30/21	Assay N581 Aldehyde Badge	256	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4624
DM - Hall 1115	09/30/21	Assay N581 Aldehyde Badge	255	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4661
DM - Class 1117	09/30/21	Assay N581 Aldehyde Badge	255	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4268
DM - Class 1125	09/30/21	Assay N581 Aldehyde Badge	255	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5572
DM - Class 1059	09/30/21	Assay N581 Aldehyde Badge	256	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5133
DM - Hall 1061-1062	09/30/21	Assay N581 Aldehyde Badge	257	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4322

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

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

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

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	10/04/21	14:35	Received by :		
Relinquished by :				Received by :		

Samples received after 3pm will be considered as next day's business
 * Required fields, failure to complete these fields may result in a delay in your samples being processed. Page 1 of 2

Sample Receipt Checklist

Project Name: ACPS IAQ

PSS Project No.: 21100408

Client Name	Total Environmental Concepts - Lortc	Received By	Brad Crozier
Disposal Date	11/08/2021	Date Received	10/04/2021 02:35:00 PM
		Delivered By	Client
		Tracking No	Not Applicable
		Logged In By	Amber Confer

Shipping Container(s)

No. of Coolers 0

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

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

Documentation

COC agrees with sample labels? Yes
 Chain of Custody Yes

Sampler Name Karl Ford
 MD DW Cert. No. N/A

Sample Container

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

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

Holding Time

All Samples Received Within Holding Time(s)? Yes

Total No. of Samples Received 15
 Total No. of Containers Received 15

Preservation

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

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

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

Samples Inspected/Checklist Completed By:

Amber Confer

 Amber Confer

Date: 10/05/2021

PM Review and Approval:

Lynn Jackson

 Lynn Jackson
 Page 14 of 14

Date: 10/05/2021

Appendix E: 4-PCH Analytical Results

Project Name: ACPS IAQ
PSS Project No.: 21100407

October 13, 2021

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



Reference: PSS Project No: **21100407**
Project Name: ACPS IAQ
Project Location: Douglass MacArthur Elementary
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) **21100407**.


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 November 8, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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

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

Sincerely,


Dan Prucnal

Laboratory Manager



Explanation of Qualifiers

Project Name: ACPS IAQ
 PSS Project No.: 21100407

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 10/04/2021 at 02:35 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21100407-001	DM- Main Admin	AIR	09/30/21 00:00
21100407-002	DM- Gym	AIR	09/30/21 00:00
21100407-003	DM- Media Center	AIR	09/30/21 00:00
21100407-004	DM- Cafeteria	AIR	09/30/21 00:00
21100407-005	DM- Class 1072	AIR	09/30/21 00:00
21100407-006	DM- Class 1032	AIR	09/30/21 00:00
21100407-007	DM- Hall 1115	AIR	09/30/21 00:00
21100407-008	DM- Class 1117	AIR	09/30/21 00:00
21100407-009	DM- Class 1125	AIR	09/30/21 00:00
21100407-010	DM- Class 1059	AIR	09/30/21 00:00
21100407-011	DM- Hall 1061-1062	AIR	09/30/21 00:00
21100407-012	DM- Class 1064	AIR	09/30/21 00:00
21100407-013	DM- Class 1055	AIR	09/30/21 00:00
21100407-014	DM- Hall 1055	AIR	09/30/21 00:00
21100407-015	DM- Hall 1035/Cafe	AIR	09/30/21 00:00

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

Notes:

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

Explanation of Qualifiers

Project Name: ACPS IAQ

PSS Project No.: 21100407

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

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

October 13, 2021

Account# 15354

Login# L548404

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on October 06, 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

Legend

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



GALSON

LABORATORY ANALYSIS REPORT

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

Client : Phase Separation Science, Inc. Account No.: 15354
 Site : DOUGLAS MACARTHUR ELEMENTARY Login No. : L548404
 Project No. : ACPS IAQ TESTING - 4920002
 Date Sampled : 30-SEP-21 Date Analyzed : 09-OCT-21
 Date Received : 06-OCT-21 Report ID : 1268947

4-Phenylcyclohexene (4PCH low LOQ)

Sample ID	Lab ID	Air Vol liter	Front ug	Back ug	Total ug	Conc mg/m3	ppm
DM - MAIN ADMIN	L548404-1	51.4	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - GYM	L548404-2	51.6	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - MEDIA CENTER	L548404-3	51.6	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CAFETERIA	L548404-4	51.6	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1072	L548404-5	51.6	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1032	L548404-6	51.2	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - HALL 1115	L548404-7	51	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1117	L548404-8	51	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1125	L548404-9	51	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1059	L548404-10	51.2	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - HALL 1061-1062	L548404-11	51.4	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1064	L548404-12	51.2	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - CLASS 1055	L548404-13	51.6	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - HALL 1055	L548404-14	51	<0.2	<0.2	<0.2	<0.004	<0.0006
DM - HALL 1035/CAFE	L548404-15	51.8	<0.2	<0.2	<0.2	<0.004	<0.0006

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

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

Submitted by: BDK
 Date : 13-OCT-21
 Supervisor : KAG

Approved by: MLN



GALSON

LABORATORY FOOTNOTE REPORT

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

Client Name : Phase Separation Science, Inc.
Site : DOUGLAS MACARTHUR ELEMENTARY
Project No. : ACPS IAQ TESTING - 4920002

Date Sampled : 30-SEP-21 Account No.: 15354
Date Received: 06-OCT-21 Login No. : L548404
Date Analyzed: 09-OCT-21

L548404 (Report ID: 1268947):

Total ug corrected for a desorption efficiency of 97%.
SOPs: GC-SOP-16(27), GC-SOP-8(28), GC-SOP-12(20)

L548404 (Report ID: 1268947):

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.

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

L548404

21100407

1Z2313E40165129938
Date: 10/06/21
Shipper: UPS
Initials: MAK



Prep: UNKNOWN

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

Invoice To*: Phase Separation Science
Phone No.: 410-747-8770
Email: invoicing@phaseonline.com
P.O. No.: ODC 4920002-001
Credit Card: Card on File Call for Credit Card Info.

41

www.sgsgafson.com

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

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

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units* L, ml, min, in2, cm2, ft2	Analysis Requested*	Method Reference*	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
DM - Main Admin	09/30/21	Sm Charcoal tubes / 226-01	51.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Gym	09/30/21	Sm Charcoal tubes / 226-01	51.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Media Center	09/30/21	Sm Charcoal tubes / 226-01	51.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Cafeteria	09/30/21	Sm Charcoal tubes / 226-01	51.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Class 1072	09/30/21	Sm Charcoal tubes / 226-01	51.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Class 1032	09/30/21	Sm Charcoal tubes / 226-01	51.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Hall 1115	09/30/21	Sm Charcoal tubes / 226-01	51.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Class 1117	09/30/21	Sm Charcoal tubes / 226-01	51.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Class 1125	09/30/21	Sm Charcoal tubes / 226-01	51.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Class 1059	09/30/21	Sm Charcoal tubes / 226-01	51.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Hall 1061-1062	09/30/21	Sm Charcoal tubes / 226-01	51.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	

*Gafson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC

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

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

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by:	Channing Jackson	10/04/21	14:35	Received by:		
Relinquished by:				Received by: Michelle Krause	10/6/21	10:40

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.

21100407

SGS GALSON

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.

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

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

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

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units* L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
DM - Class 1064	09/30/21	Sm Charcoal tubes / 226-01	51.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Class 1055	09/30/21	Sm Charcoal tubes / 226-01	51.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Hall 1053 <i>5 on 10/5/21</i>	09/30/21	Sm Charcoal tubes / 226-01	51.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Hall 1035/Cafe	09/30/21	Sm Charcoal tubes / 226-01	51.8	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 substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC

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

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

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	10/04/21	14:35	Received by :		
Relinquished by :				Received by : Michelle Krause	10/04/21	10:46

Samples received after 3pm will be considered as next day's business
 * Required fields, failure to complete these fields may result in a delay in your samples being processed.
 Page 1 of 2



Chain of Custody Form for Subcontracted Analyses

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

W.O. No. : 21100407
 Project Location : Douglass MacArthur Elementary
 Project Number : 4920002
 Report To LOD : No

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

For Questions or issues please contact: Amber Confer

Report Due On : 10/13/21 05:00

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21100407-001	DM- Main Admin	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-002	DM- Gym	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-003	DM- Media Center	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-004	DM- Cafeteria	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-005	DM- Class 1072	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-006	DM- Class 1032	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-007	DM- Hall 1115	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-008	DM- Class 1117	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-009	DM- Class 1125	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-010	DM- Class 1059	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-011	DM- Hall 1061-1062	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-012	DM- Class 1064	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-013	DM- Class 1055	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-014	DM- Hall 1055	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21100407-015	DM- Hall 1035/Cafe	09/30/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON

Data Deliverables Required: COA

Perform Q.C. on Sample : _____

Send Report Attn : reporting@phaseonline.com

Send Invoice Attn : invoicing@phaseonline.com

Airbill No.: _____ Carrier : UPS

Condition Upon Receipt : _____

Comments : _____

Samples Relinquished By: Amber Confer Date: 10/5/21 Time: _____ Samples Received By: _____

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

Samples Relinquished By: _____ Date: Page 7 of 7 Time: _____ Report Reference: 1 Generated: 10/12/21 Samples Received By: Michelle Krause 10/12/21 1046

Case Narrative

Project Name: ACPS IAQ

PSS Project No.: 21100407

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.

21100407



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

Invoice To* : Phase Separation Science

Client Account No.*: _____

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

Phone No.* : 410-747-8770

Phone No.: 410-747-8770

Cell No. : _____

Email : invoicing@phaseonline.com

Email Results to : Amber Confer

P.O. No. : ODC 4920002-001

www.sgsgalson.com

Email address: reporting@phaseonline.com

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

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

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

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units* L, ml, min, in2, cm2, ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
DM - Main Admin	09/30/21	Sm Charcoal tubes / 226-01	51.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Gym	09/30/21	Sm Charcoal tubes / 226-01	51.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Media Center	09/30/21	Sm Charcoal tubes / 226-01	51.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Cafeteria	09/30/21	Sm Charcoal tubes / 226-01	51.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Class 1072	09/30/21	Sm Charcoal tubes / 226-01	51.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Class 1032	09/30/21	Sm Charcoal tubes / 226-01	51.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Hall 1115	09/30/21	Sm Charcoal tubes / 226-01	51.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Class 1117	09/30/21	Sm Charcoal tubes / 226-01	51.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Class 1125	09/30/21	Sm Charcoal tubes / 226-01	51.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Class 1059	09/30/21	Sm Charcoal tubes / 226-01	51.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Hall 1061-1062	09/30/21	Sm Charcoal tubes / 226-01	51.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	

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

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

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

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	10/04/21	14:35	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.

21100407



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

Invoice To* : Phase Separation Science
 Phone No.: 410-747-8770
 Email : invoicing@phaseonline.com
 P.O. No. : ODC 4920002-001
 Credit Card : Card on File Call for Credit Card Info.

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

www.sgsgalson.com

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

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

Sample Identification* (Maximum of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
DM - Class 1064	09/30/21	Sm Charcoal tubes / 226-01	51.2	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Class 1055	09/30/21	Sm Charcoal tubes / 226-01	51.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Hall 1053 <i>S a~ 105m</i>	09/30/21	Sm Charcoal tubes / 226-01	51.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	
DM - Hall 1035/Cafe	09/30/21	Sm Charcoal tubes / 226-01	51.8	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 substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: Use method(s) listed on COC

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

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

Chain of Custody	Print Name/Signature	Date	Time	Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	10/04/21	14:35	Received by : <i>[Signature]</i>		
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.

Sample Receipt Checklist

Project Name: ACPS IAQ

PSS Project No.: 21100407

Client Name	Total Environmental Concepts - Lortc	Received By	Brad Crozier
Disposal Date	11/08/2021	Date Received	10/04/2021 02:35:00 PM
		Delivered By	Client
		Tracking No	Not Applicable
		Logged In By	Amber Confer

Shipping Container(s)

No. of Coolers 0

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

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

Documentation

COC agrees with sample labels? Yes
Chain of Custody Yes

Sampler Name Karl Ford
MD DW Cert. No. N/A

Sample Container

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

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

Holding Time

All Samples Received Within Holding Time(s)? Yes

Total No. of Samples Received 15
Total No. of Containers Received 15

Preservation

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

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

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

Samples Inspected/Checklist Completed By:

Amber Confer

Amber Confer

Date: 10/05/2021

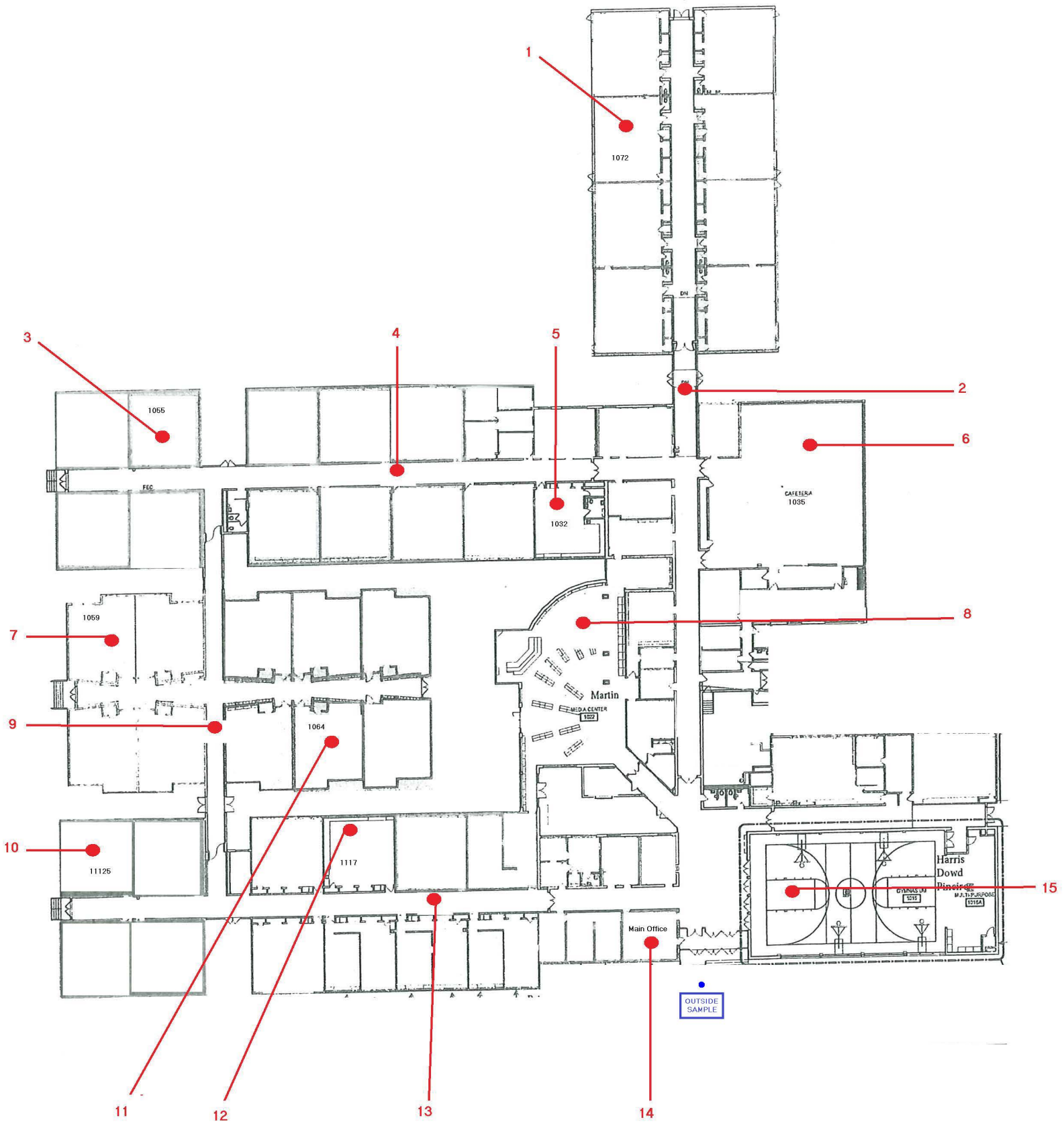
PM Review and Approval:

Lynn Jackson

Lynn Jackson

Date: 10/05/2021

Appendix F: Sampling Locations



Douglas MacArthur Elementary School

4633 Taney Avenue
Alexandria, VA 22304



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

Figure

1

FLOOR PLAN

Appendix G: Photographs



Douglas MacArthur, Media Center



Douglas MacArthur, Cafeteria



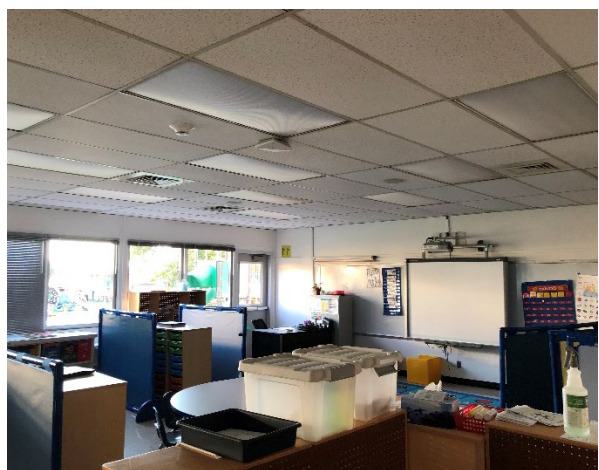
Douglas MacArthur, Gym



Douglas MacArthur, Classroom



Douglas MacArthur, Hallway



Douglas MacArthur, Multi-purpose