

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

NAOMI BROOKS ELEMENTARY SCHOOL

600 RUSSEL ROAD, ALEXANDRIA, VA 22301



Report Prepared for:

John Contreras Alexandria City Public Schools 2601 Cameron Mills Rd, Alexandria, VA 22302

Dated: October 5, 2021

Toll Free: 877.457.TECI www.totalenvironmental.net

TABLE OF CONTENTS

1	Execu	tive Summary	1
2	Asses	sment Methods	3
3	Visua	Observations	6
4	Condi	tions for Human Occupancy	8
	4.1	Temperature	8
	4.2	Relative Humidity	8
	4.3	Carbon Dioxide	9
	4.4	Carbon Monoxide	9
	4.5	Multi-Gas	9
5	Mold	Sampling Results	9
6	Rador	n Gas Sampling Results	10
8	TO+1	5 (VOCs) Sampling Results	10
7	Forma	aldehyde Gas Sampling Results	10
9	4-PCH	Sampling Results	.11
10	Multi-	Gas detector (MSA Altair Multi-gas) Readings – Oxygen, VOCs, Hydro	ger
	Sulfid	e	11
11	Qualit	y Control Program	13

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 TechnologyNVLAP National Voluntary Laboratory Accreditation Program

RH Relative Humidity

Abbreviations involving scientific volume and measurements involving media or water sampling

Spores/m3 Mold spores per cubic meter of air

LPM Liters Per Minute
NTE Not to exceed

°F degree Fahrenheit
PPM Parts Per Million

1. Executive Summary

Total Environmental Concepts (TEC) was contracted by Alexandria City Public Schools (ACPS) to perform Indoor Air Quality (IAQ) assessments at 19 schools. The original list is provided below:

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

This IAQ assessment was conducted at Naomi Brooks Elementary School on Thursday, August 12, 2021. ACPS required that the testing be based on the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) guidelines. ACPS provided site plans and fifteen (15) sampling locations per school. ACPS chose sampling locations based on internal review of facilities maintenance records, and a review of facilities maintenance-related issues. These sampling locations were selected to collect representative IAQ data in these specific areas and to document any areas of potential concern observed during the site assessment. ACPS required that TEC test for the following major indoor air pollutants:

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

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

- Carbon Monoxide
- Carbon Dioxide
- Humidity

- Temperature
- Oxygen

Summary of findings and recommendations during this limited IAQ investigation:

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

Findings:

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

Recommendations:

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

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

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

2. Assessment Methods

Under the direction of TEC Industrial Hygienist Nikki Satari, Margaret Stanger, Victoria Powers, and Channing Jackson, also of TEC, conducted IAQ inspections and air sampling on, August 12, 2021. All air samples were collected three to six feet from floor level, the typical breathing zone for adults.

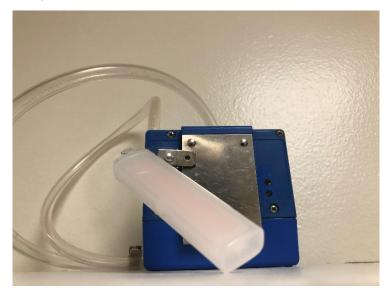
Mold air samples were collected with a field calibrated Environmental Monitoring Systems High Volume Sampling Pump on Allergenco-D Disposable IAQ Air Monitoring Cassettes at a flow rate of 10 liters per minute for a sample volume of 75 liters during the assessment (photograph below). The Hayes Microbial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



Radon gas samples were collected by securing Air Chek Radon Test Kits (photograph below). Samples were collected within the breathing zone (4-6ft from ground level) at each sample location. In accordance with Air Chek's Radon Test Kit Instructions, kits were secured to walls inside the building and away from open windows, doors to the outside, or interior air ventilation systems. The sampling time was 72 hours. Radon analytical results can be found in Appendix B.



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



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



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



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

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



3. Visual Observations

Sample Location	August 25, 2021	Visual Observations
Classroom 6	Standard classroom materials were observed in storage area during sampling.	

Classroom 11	Standard classroom materials were observed in storage area during sampling.	
Classroom 18	Electrical work was observed being conducted in classroom 18	
Hallway by room 7	Flooring removal was observed in the hallway by classroom 7	

Main Lobby

The main lobby

of Naomi

Brooks

Elementary

School.



4. Conditions for Human Occupancy

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

4.1 Temperature

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

4.2 Relative Humidity

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

4.3 Carbon Dioxide

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

4.4 Carbon Monoxide

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

4.5 Multi-gas Detector Readings

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

5. Mold Sampling Results

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

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

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

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

There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and, if it does, to help pinpoint the area of contamination.

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

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

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

observed ratio anomalies are most likely caused by a combination of the normal fluctuation in daily spore counts and the issues with water intrusion.

Findings:

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

Recommendations:

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

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

Mold analytical results can be found in Appendix A.

6. Radon Gas Sampling Results

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

7. TO+15 (VOC) Sampling Results

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

8. Formaldehyde Gas Sampling Results

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

9. 4-PCH Sampling Results

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

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

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

Table 1

	Multi-Gas Detector Readings											
Location	VOC	СО	OXYGEN	H2S								
Class 28	0.0	0.0	20.8	0.0								
Hall 25	0.0	0.0	20.8	0.0								
Cafeteria	0.0	0.0	20.8	0.0								
Gym	0.0	0.0	20.8	0.0								
Class 24	0.0	0.0	20.8	0.0								
Class 21	0.0	0.0	20.8	0.0								
Class 18	0.0	0.0	20.8	0.0								
Entrance	0.0	0.0	20.8	0.0								
Media Center	0.0	0.0	20.8	0.0								
Class 6	0.0	0.0	20.8	0.0								
Class 1	0.0	0.0	20.8	0.0								
Hall 8	0.0	0.0	20.8	0.0								
Class 11	0.0	0.0	20.8	0.0								
Class 13	0.0	0.0	20.8	0.0								
Hall 16	0.0	0.0	20.8	0.0								

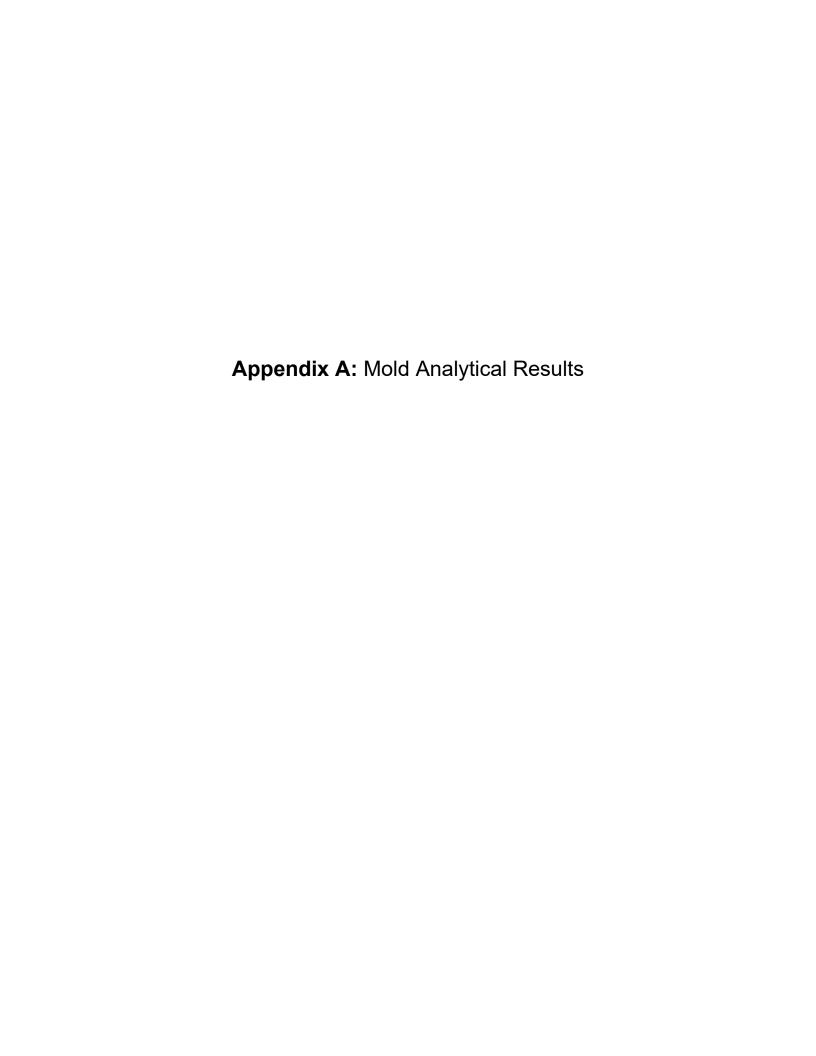
Table 2

		Results of Analytes by	/ Location		
Location	Radon	Mold AVG: 82 F AVG: 45 %	TO+15 VOCs	4РСН	Formaldehyde
Class 28	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL
Hall 25	< 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
Gym	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL
Class 24	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL
Class 21	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL
Class 18	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL
Entrance	< 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 6	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL
Class 1	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL
Hall 8	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL
Class 11	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL
Class 13	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL
Hall 16	< 4 pCi/L	Spore Count Normal	< RSL	< 6.5 ug/m3	< RSL

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

11. Quality Control Program

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







Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road Suite B Lorton, VA 22079

Phone: (571) 289-2173

Naomi Brooks Elementary School 600 Russel Rd Alexandria, VA 22301

> Collected: August 12, 2021 Received: August 13, 2021 Reported: August 13, 2021

We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 18 samples by FedEx in good condition for this project on August 13th, 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



plan N. Hayes

Lab ID: #188863



DPH License: #PH-0198

Naomi Brooks Elementary School 600 Russel Rd Alexandria, VA 22301

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

Spore Trap SOP - HMC#101

Sample Number	1	4318	8840	2	4318	3853	3	4318	3843	4 4318848		3848
Sample Name	Outside			Cafeteria - North			Cafeteria - South			Hall	way - Cafeto	eria
Sample Volume		75.00 liter			75.00 liter			75.00 liter			75.00 liter	
Reporting Limit		13 spores/m ³			13 spores/m ³	3		13 spores/m ³		13 spores/m ³		
Background		1			1			1		1		
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	400	5333	72.3%	1	13	100.0%	1	13	50.0%	1	13	100.0%
Aspergillus Penicillium	2	27	<1%									
Basidiospores	144	1920	26.0%				1	13	50.0%			
Bipolaris Drechslera												
Chaetomium												
Cladosporium	7	93	1.3%									
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	553	7373	100%	1	13	100%	2	26	100%	1	13	100%

Water Damage Indicator

Common Allergen

Slightly Higher than Baseline

Significantly Higher than Baseline

Ratio Abnormality

Date:

Collected: Aug 12, 2021

Received: Aug 13, 2021

Reported: Aug 13, 2021

Revision: 2

Project Analyst:

Ramesh Poluri, PhD

Date: 08 - 13 - 2021 Reviewed By:

Steve Hayes, BSMT

08 - 14 - 2021

Naomi Brooks Elementary School 600 Russel Rd Alexandria, VA 22301

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

Spore Trap SOP - HMC#101

Sample Number	5	4318	3852	6	4318	3851	7	4318	3842	8	4318	3847	
Sample Name	Classroom 28			C	Classroom 24			Gym - East			Gym - West		
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	3	13 spores/m ³			
Background		1			1			1			1		
Fragments		ND			ND			ND			ND		
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	
Alternaria													
Ascospores	2	27	66.7%	1	13	100.0%	2	27	100.0%	1	13	100.0%	
Aspergillus Penicillium													
Basidiospores	1	13	33.3%										
Bipolaris Drechslera													
Chaetomium													
Cladosporium													
Curvularia													
Epicoccum													
Fusarium													
Memnoniella													
Myxomycetes													
Pithomyces													
Stachybotrys													
Stemphylium													
Torula													
Ulocladium													
Total	3	40	100%	1	13	100%	2	27	100%	1	13	100%	
Total		10	10070		10	10070			100%	<u> </u>	10	100%	

Water Damage Indicator

Collected: Aug 12, 2021

Received: Aug 13, 2021

Reported: Aug 13, 2021

Significantly Higher than Baseline

Revision: 2

Common Allergen

Project Analyst: Ramesh Poluri, PhD Date:

Slightly Higher than Baseline

08 - 13 - 2021

Reviewed By:

Steve Hayes, BSMT

Date: 08 - 14 - 2021

Ratio Abnormality

Naomi Brooks Elementary School 600 Russel Rd Alexandria, VA 22301

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

Spore Trap SOP - HMC#101

Sample Number	9	4318	3841	10	4318	3846	11	4318	3862	12 4318863		
Sample Name	21			18			Entrance			N	ledia Cente	r
Sample Volume		75.00 liter			75.00 liter			75.00 liter			75.00 liter	
Reporting Limit	13 spores/m³				13 spores/m ³			13 spores/m ³		13 spores/m³		
Background		1		1				1		2		
Fragments		ND			ND			ND			ND	
		_						_			_	
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total
Alternaria												
Ascospores	1	13	50.0%	1	13	100.0%	2	27	66.7%	6	80	85.7%
Aspergillus Penicillium												
Basidiospores	1	13	50.0%				1	13	33.3%	1	13	14.3%
Bipolaris Drechslera												
Chaetomium												
Cladosporium												
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	2	26	100%	1	13	100%	3	40	100%	7	93	100%

MICROBIAL CONSULTING

Water Damage Indicator

Collected: Aug 12, 2021

Received: Aug 13, 2021

Slightly Higher than Baseline

Reported: Aug 13, 2021

Significantly Higher than Baseline

Revision: 2

Project Analyst:

Ramesh Poluri, PhD

Common Allergen



Date: 08 - 13 - 2021 Reviewed By:

Steve Hayes, BSMT

Date: 08 - 14 - 2021

Ratio Abnormality

Naomi Brooks Elementary School 600 Russel Rd Alexandria, VA 22301

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

Spore Trap SOP - HMC#101

Sample Number	13	4318	8857	14	4318	3861	15	4318	3858	16	4318	8855
Sample Name	Class 1			Class 6				Class 11			Class 13	
Sample Volume		75.00 liter		75.00 liter				75.00 liter			75.00 liter	
Reporting Limit	13 spores/m³			13 spores/m ³				13 spores/m ³		13 spores/m ³		
Background		1			1			2		1		
Fragments		ND			ND			ND			ND	
								2	I			
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	50.0%	1	13	100.0%	3	40	75.0%			
Aspergillus Penicillium	_											
Basidiospores	1	13	50.0%				1	13	25.0%	1	13	100.0%
Bipolaris Drechslera												
Chaetomium												
Cladosporium												
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
					_			_			_	
Total	2	26	100%	1	13	100%	4	53	100%	1	13	100%

Water Damage Indicator

Common Allergen

Slightly Higher than Baseline

Significantly Higher than Baseline

Ratio Abnormality

Collected: Aug 12, 2021

Received: Aug 13, 2021

Reported: Aug 13, 2021

Revision: 2

Project Analyst:

Ramesh Poluri, PhD

Date: 08 - 13 - 2021 Reviewed By:

Steve Hayes, BSMT

Date:

08 - 14 - 2021

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

Naomi Brooks Elementary School 600 Russel Rd Alexandria, VA 22301

Spore Trap SOP - HMC#101

Sample Name										
ouriple Nume	Med	dia @ Hallw	ay	На	allway - 11-	7				
Sample Volume		75.00 liter			75.00 liter					
Reporting Limit		13 spores/m³			13 spores/m ³					
Background	1				1					
Fragments		ND			ND					
Organism	Raw Count	Count / m ³	% of Total	Raw Count	Count / m ³	% of Total				
Alternaria										
Ascospores	2	27	66.7%	2	27	100.0%				
Aspergillus Penicillium										
Basidiospores	1	13	33.3%							
Bipolaris Drechslera										
Chaetomium										
Cladosporium										
Curvularia										
Epicoccum										
Fusarium										
Memnoniella										
Myxomycetes										
Pithomyces										
Stachybotrys										
Stemphylium										
Torula										
Ulocladium										
Total	3	40	100%	2	27	100%				

Water Damage Indicator

Common Allergen

Slightly Higher than Baseline

Significantly Higher than Baseline

Ratio Abnormality

Collected: Aug 12, 2021

Received: Aug 13, 2021

Reported: Aug 13, 2021

Revision: 2

Project Analyst:

Ramesh Poluri, PhD

08 - 13 - 2021

Date:

Reviewed By: Steve Hayes, BSMT

Date: 08 - 14 - 2021

Lorton, VA 22079 (571) 289-2173

Naomi Brooks Elementary School 600 Russel Rd Alexandria, VA 22301

#21029732

Spore Trap Information

Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.
Blanks	Results have not been corrected for field or laboratory blanks.
Background	The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows:
	 NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD) 1: <5% of field occluded. No spores will be uncountable. 2: 5-25% of field occluded. 3: 25-75% of field occluded. 4: 75-90% of field occluded. 5: >90% of field occluded. Suggested recollection of sample.
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.
Control Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments.
Water Damage Indicator	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. Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination.
Significantly Higher than Baseline	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
Ratio Abnormality	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.



Maggie Stanger Total Environmental Concepts, Inc.

8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173

Naomi Brooks Elementary School 600 Russel Rd Alexandria, VA 22301

#21029732

Organism Descriptions

Ascospores	Habitat:	A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report.
	Effects:	Health affects are poorly studied, but many are likely to be allergenic.
Aspergillus Penicillium	Habitat:	The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates.
	Effects:	This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions.
Basidiospores	Habitat:	A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings.
	Effects:	Common allergens and are also associated with hypersensitivity pneumonitis.
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.



Total			Placement Tech	0/10/		
Environme			Placement Date Address	8/12/21	Division 1	Alexandria VA 223
Concepts	TOUC	volume	, radires	Naomi Brooks	600 Russel e J	Michandled Av Cer
Sample #	Location/ room	FlaveDate				
4318840	out side	7514	Sampling Time Thin 7. 5 min	Pump Start Time 137	Pump End Time 9:44	Sunny
	Cateteria - North	75	7.5 min	7:56	10:03	
43 1 88 43	Cafeteria - South	751	7,5	9:58	10:05	
4318848	Hallway - Cafetay	751	7. <	10:12	10:19	
4318852	C/455 room 28	754	7. 5	10:12	10:20	
4318851	Class 100m 24	752	7.5	10:18	10:26	
4318842	Gym-East			10:25	10-52	
4318847	Gym-West			10:27	10:34	
4318841	2			10:28	10:26	
43 8846	18			10:35	10:41	
4318862	Entrace			10:37	10:45	
4318863	Media center			10:40	10:45	
AS18817	012551			16:46	10:52	
4318861	C1a85 6			10:45	10:51	
4318858	C) as 5 11			10:48	10:56	
43 18855	C) as 3 13			10:51	10:59	
4318856	Mediachan may			10:54	11:02	
4318850	Hallway 11-7			11:00	11.07	

Appendix B: Radon Analytical Results

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723502 Result: < 0.3 pCi/l

Location: 129/ Careteria

NB

Analysis Note:

Analyzed : 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 99 hours 10.2% 70°F

Kit #: 9723503 Result: < 0.3 pCi/l

Location: 129/Careteria

NB

NB

NB

NB

NB

Analysis Note:

Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 99 hours 10.3% 70°F

Kit #: 9723504 Result: < 0.3 pCi/l

Location: 129/cafe teria - D

Analysis Note:

Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 99 hours 9.5% 70°F

Kit #: 9723505 Result: < 0.3 pCi/l

Location: Hallway Room 25

Analysis Note:

Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 99 hours 10.3% 70°F

Kit #: 9723506 Result: < 0.3 pCi/l

Location: ROOM 28

Analysis Note:

Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 99 hours 12.2% 70°F

Kit #: 9723507 Result: ????

Location: 129/ careteria -B

Analysis Note: MI

Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am

Ended: 0000-00-00 at

Hours/MST%: 0 hours 5.3% 70°F

Amount	17	2021
August	1/,	2021

** LABORATORY ANALYSIS REPORT **

Pg 2 of 7

Attention: P8184	LEILA DEAN	/ TOTAL	ENVIRONMENTAL CONCEPTS
-------------------------	------------	---------	------------------------

Kit #: 9723509 Result: < 0.3 pCi/l Analysis Note :

Location: 44M -1 Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

, N β Hours/MST%: 99 hours 15.0% 70°F

Kit #: 9723510 Result: 0.5 ± 0.3 pCi/l Analysis Note:

Location: **200m** 21 Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 99 hours 13.1% 70°F

Kit #: 9723511 Result: < 0.3 pCi/l Analysis Note:

Location: Media Center -1 Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 99 hours 12.5% 70°F

Kit #: 9723512 Result: < 0.3 pCi/l Analysis Note :

Location: Media center - 2 Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 99 hours 12.8% 70°F

Kit #: 9723513 Result: 1.0 ± 0.3 pCi/l Analysis Note:

Location: Room 1 8 Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 99 hours 14.5% 70°F

Kit #: 9723514 Result: < 0.3 pCi/l Analysis Note :

Location: GYM - 2

Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

NB Hours/MST%: 99 hours 14.5% 70°F

August	17	2021
Tiuguot	1/,	2021

** LABORATORY ANALYSIS REPORT **

Pg 3 of 7

Attention: P8184/LEILA DEAN/TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723515 Result: < 0.3 pCi/l

Location: entrance

,NB

Analysis Note:

Analyzed: 2021-08-17 at 2:00 pm Started: 2021-08-12 at 10:00 am

Ended: 2021-08-16 at 1:00 pm Hours/MST%: 99 hours 13.2% 70°F

> Analyzed: 2021-08-17 at 2:00 pm Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 99 hours 12.1% 70°F

Kit #: 9723516 Result: 0.5 ± 0.3 pCi/l

Location: 200m 1

, NB

Kit #: 9723517 Result: < 0.3 pCi/l

Location: Hanway Room 7

, MB

Analysis Note:

Analysis Note:

Analyzed: 2021-08-17 at 2:00 pm Started: 2021-08-12 at 10:00 am

Ended: 2021-08-16 at 1:00 pm Hours/MST%: 99 hours 14.9% 70°F

Kit #: 9723518 Result: < 0.3 pCi/l

Location: 200M 11

, NB

Analysis Note:

Analyzed: 2021-08-17 at 2:00 pm Started: 2021-08-12 at 10:00 am

Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 99 hours 14.1% 70°F

August 17, 2021

** LABORATORY ANALYSIS REPORT **

Pg 4 of 7

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723521

Result: < 0.3 pCi/l

Location: room 6

NB

Analysis Note:

Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 99 hours 12.2% 70°F

Kit #: 9723523 Result: 0.6 ± 0.3 pCi/l

Location: Room 13

NB

NB

Analysis Note:

Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 10:00 am Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 99 hours 12.7% 70°F

Kit #: 9723524 Result: < 0.3 pCi/l

Location: ROOM 1 - D

Analysis Note:

Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 11:00 am

Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 98 hours 11.4% 70°F

Kit #: 9723525 Result: < 0.3 pCi/l

Location: Hallway Room 15 / Media Center

Analysis Note:

Analyzed: 2021-08-17 at 2:00 pm

Started: 2021-08-12 at 11:00 am

Ended: 2021-08-16 at 1:00 pm

Hours/MST%: 98 hours 10.8% 70°F

, NB

Naomi Brooks/Maury

Total Environmental Concepts, Inc.

Placement Tech		Sample Type 2adon	Pickup Tech	
Placement Date	8112/21	Sample Media	Pickup Date	8/16/21
Address	600 RUSSell rd		Email	K-Ford ateci.pro

Sample #		SQFT >2000 HVAC Y	N Window Y/N	Fan Y/N	Time in	Time out	Comment
89723503	NB 1294-1	Y	7	N	10:00		
189723502	NB 1294-2		Y	N	10:00		
1B9723504D	NB1293-3		Y	N	10'.60		
B91723507B	NB1294-4		Y	N	10:00		
B91723505	NB Hallway 1225		W	N	10:12		
189723506	NB28		Y	N	10:14		
139723508	NB 24		Y	N	10:16		
189723514	NBGYMI		1	N	10:20		
B9723509	NB GYM2		Y	N	10:20		
B97235 10	NB 21		Y	N	10:28		
139723513	NB 18		Y	N	10:32		
B9923515	NB entrance		Y	N	10:37		
B97235 12	NB Medial		N	N	10:37		
B9723511	NB Media2		N	N	10:37		
189723516	NB1-1		Y	N	10:44		
JB 9723521	NBO		N	N	10:46		
189123517	NB Hallway R7		N	N	10:50		
189723518	NBII		7	N	10:52		
189723523	NB13		Y	N	10:57		
VB9723525	NB Hanway R15 Rmedia		N	N	11:02		
1897235240	NB 1-2		Y		11:07		
		1		7-7-7-5-7-6			

Appendix C: VOCs (TO+15) Analytical Results



Certificate of Analysis

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21091311

September 22, 2021

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

Reference: PSS Project No: 21091311

Project Name: ACPS IAQ Testing

Project Location: Naomi Brooks (Maury) ES

Project ID.: 4920002



Dear Karl Ford:

This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **21091311**.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 18, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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

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

Sincerely,

Dan Prucnal

Laboratory Manager





Explanation of Qualifiers

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21091311

Project ID: 4920002

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

PSS Sample ID	Sample ID	Matrix	Date/Time Collected	
21091311-001	NB-Class 28	AIR	09/10/21 00:00	
21091311-002	NB-Hall 25	AIR	09/10/21 00:00	
21091311-003	NB- Cafe	AIR	09/10/21 00:00	
21091311-004	NB- Gym	AIR	09/10/21 00:00	
21091311-005	NB- Class 24	AIR	09/10/21 00:00	
21091311-006	NB- Class 21	AIR	09/10/21 00:00	
21091311-007	NB- Class 18	AIR	09/10/21 00:00	
21091311-008	NB- Entrance (outdoor)	AIR	09/10/21 00:00	
21091311-009	NB- Media Center	AIR	09/10/21 00:00	
21091311-010	NB- Class 6	AIR	09/10/21 00:00	
21091311-011	NB- Class 1	AIR	09/10/21 00:00	
21091311-012	NB- Hall 8	AIR	09/10/21 00:00	
21091311-013	NB- Class 11	AIR	09/10/21 00:00	
21091311-014	NB- Class 13	AIR	09/10/21 00:00	
21091311-015	NB- Hall 16	AIR	09/10/21 00:00	

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

Notes:

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



Explanation of Qualifiers

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

SCIENCE

Project Name: ACPS IAQ Testing

PSS Project No.: 21091311

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.
- 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 September 22, 2021

Account# 15354 Login# L546490

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on September 14, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

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

Sincerely,

SGS Galson

Lisa Swab Laboratory Director

Lisa Luab

Enclosure(s)



ANALYTICAL REPORT

Account : 15354 Login No. : L546490

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.

Accreditation/Recognition

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.

AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead,
			Environmental Microbiology
State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and	Lab ID: 1042	Mold Analysis Laboratory license
	Regulation		

Lab ID#

Legend

National/International

< - Less than MDL - Method Detection Limit ppb - Parts per Billion mg - Milligrams > - Greater than ug - Micrograms NA - Not Applicable ppm - Parts per Million I - 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 ng - Nanograms in2 - Square Inches

Program/Sector



LABORATORY ANALYSIS REPORT

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354
6601 Kirkville Road Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

East Syracuse, NY 13057 Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

TO15 List

(315) 432-5227

FAX: (315) 437-0571

www.sgsgalson.com

Galson ID: Client ID:			L546490 NB-CLAS		L546490-2 NB-HALL 25		L546490-3 NB-CAFE	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	<5.0	<8.6	<5.0	<8.6
Freon-12	0.80	4.0	0.80	4.0	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	0.90	1.9	<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
Jinyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
l,3-Butadiene	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
n-Butane	0.80	1.9	1.7	4.0	1.2	2.9	1.2	2.9
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
Jinyl 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	41	13	30	12	28

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

Collection Media : Mini Can

Submitted by : SAP

Approved by : JMR

Date : 22-SEP-21



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490 NB-CLAS		L546490 NB-HALL		L546490 NB-CAFE	
	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	120	290	100	260	65	160
Acrylonitrile	0.80	1.7	1.6	3.5	<0.80	<1.7	1.2	2.6
Pentane	0.80	2.4	30	88	24	71	20	60
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 Supervisor: BLD

Collection Media : Mini Can Approved by : JMR

Submitted by : SAP Date : 22-SEP-21

Page 7 of 45



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490 NB-CLAS		L546490 NB-HALL		L546490 NB-CAFE	_
	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	1.7	6.0	<0.80	<2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	0.90	3.4	<0.80	<2.9	2.2	7.9
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

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

Collection Media : Mini Can Approved by : JMR Submitted by : SAP Date : 22-SEP-21

Page 8 of 45

Version 1.000



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 : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

TO15 List

Galson ID: Client ID:			L546490 NB-CLAS		L546490 NB-HALL		L546490 NB-CAFE	-
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	0.90	3.4	<0.80	<3.0	2.9	11
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

Collection Media : Mini Can Approved by : JMR Submitted by : SAP Date

: 22-SEP-21

Page 9 of 45

Version 1.000



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 : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

TO15 List

Galson ID: Client ID:			L546490 NB-CLAS		L546490 NB-HALL		L546490 NB-CAFE	-
	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	1.1	5.1
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 Supervisor: BLD

Collection Media : Mini Can Approved by : JMR



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:				L546490-1 NB-CLASS 28		L546490-2 NB-HALL 25		1−3
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

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

Collection Media : Mini Can Approved by : JMR



Supervisor: BLD

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 : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

Galson ID: Client ID:			L546490 NB-GYM	-4	L546490 NB-CLAS	-	L546490 NB-CLAS	
	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	0.90	4.7	<0.80	<4.0	<0.80	<4.0
Chloromethane	0.80	1.7	1.1	2.2	0.90	1.8	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6	<0.80	<5.6	<0.80	<5.6
inyl Chloride	0.80	2.0	<0.80	<2.0	<0.80	<2.0	<0.80	<2.0
.,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	2.5	6.0	6.6	16
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
inyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
crolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	7.3	17	27	63	12	29

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

Collection Media : Mini Can

Submitted by : SAP Approved by : JMR

: 22-SEP-21 Date

Page 12 of 45 Version 1.000



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490 NB-GYM	-4	L546490 NB-CLAS	-	L546490 NB-CLAS	
	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	77	190	110	270	88	220
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	1.7	5.0	5.0	15	4.6	14
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
crans-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 Supervisor: BLD

Collection Media : Mini Can Approved by : JMR Submitted by

: SAP Date : 22-SEP-21



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490 NB-GYM	-4	L546490 NB-CLAS	-	L546490 NB-CLAS	
	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	2.7	9.8	1.6	5.7	2.1	7.6
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

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

Collection Media : Mini Can Approved by : JMR Submitted by : SAP Date

: 22-SEP-21



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490 NB-GYM	-4	L546490-5 NB-CLASS 24		L546490-6 NB-CLASS 21	
	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	2.4	9.0	0.90	3.4	1.2	4.7
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

Collection Media : Mini Can Approved by : JMR Submitted by : SAP Date

: 22-SEP-21

Page 15 of 45



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

Client

Site

LELAP Lab ID #04083

: Phase Separation Science, Inc. Account No.: 15354

LABORATORY ANALYSIS REPORT

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Login No. : L546490

Date Received : 14-SEP-21 Report ID : 1266070

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490 NB-GYM	-4	L546490 NB-CLAS	-	L546490 NB-CLAS	
	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

: NAOMI BROOKS (MAURY) ES

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

Collection Media : Mini Can Approved by : JMR Submitted by

: SAP Date : 22-SEP-21



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 : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

TO15 List

Galson ID: Client ID:			L546490 NB-GYM	-4	L546490-5 NB-CLASS 24		L546490 NB-CLAS	
	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

Approved by : JMR Submitted by : SAP Date : 22-SEP-21 Supervisor: BLD



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490 NB-CLAS		L546490-8 NB-ENTRANCE (OUTDOOR		L546490-9 NB-MEDIA CENTER	
	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	12	29	0.90	2.1	5.6	13
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	11	26	5.8	14	13	31

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

Collection Media : Mini Can Approved by : JMR Submitted by

: SAP Date : 22-SEP-21



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490-7 NB-CLASS 18		L546490-8 NB-ENTRANCE (OUTDOOR		L546490-9 NB-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	56	140	<5.0	<12	19	48
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	23	67	16	47	24	71
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 Supervisor: BLD

Collection Media : Mini Can Approved by : JMR Submitted by : SAP Date : 22-SEP-21

Page 19 of 45



East Syracuse, NY 13057

FAX: (315) 437-0571

www.sgsgalson.com

LELAP Lab ID #04083

Client 6601 Kirkville Road Site

: Phase Separation Science, Inc. Account No.: 15354 : NAOMI BROOKS (MAURY) ES Login No. : L546490

LABORATORY ANALYSIS REPORT

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490 NB-CLAS		L546490-8 NB-ENTRANCE (OUTDOOR		L546490-9 NB-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	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

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

Collection Media : Mini Can Approved by : JMR Submitted by : SAP

Date : 22-SEP-21



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490 NB-CLAS				L546490-9 NB-MEDIA CENTER	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	1.5	5.8	<0.80	<3.0	<0.80	<3.0
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

Collection Media : Mini Can Approved by : JMR Submitted by : SAP Date : 22-SEP-21

Page 21 of 45

Version 1.000



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 : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

TO15 List

Galson ID: Client ID:			L546490-7 NB-CLASS 18		L546490-8 NB-ENTRANCE (OUTDOOR		L546490-9 NB-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 Supervisor: BLD

Collection Media : Mini Can Approved by : JMR Submitted by : SAP Date : 22-SEP-21

Page 22 of 45

Version 1.000



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 : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

TO15 List

Galson ID: Client ID:			L546490 NB-CLAS		L546490 NB-ENTR	•	L546490 NB-MEDI	-9 A 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

Approved by : JMR Submitted by : SAP Date : 22-SEP-21

Page 23 of 45

Supervisor: BLD



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490-10 NB-CLASS 6		L546490-11 NB-CLASS 1		L546490-12 NB-HALL 8	
	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	11	25	13	32	8.0	19
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	7.1	17	8.3	20	9.9	24

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

Collection Media : Mini Can Approved by : JMR



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490-10 NB-CLASS 6		L546490-11 NB-CLASS 1		L546490-12 NB-HALL 8	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5	<0.80	<4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	15	37	13	32	12	30
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	13	39	24	72	21	61
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	1.9	6.0
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 Supervisor: BLD

Collection Media : Mini Can Approved by : JMR Submitted by : SAP Date : 22-SEP-21

Page 25 of 45



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490 NB-CLAS		L546490-11 NB-CLASS 1		L546490-12 NB-HALL 8	
	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	<2.9	<0.80	<2.9	<0.80	<2.9
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
l,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
l,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

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

Collection Media : Mini Can Approved by : JMR Submitted by : SAP Date : 22-SEP-21

Page 26 of 45



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 : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

TO15 List

Galson ID: Client ID:			L546490 NB-CLAS		L546490-11 NB-CLASS 1		L546490-12 NB-HALL 8	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4	<0.80	<5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9	<0.80	<2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3	<0.80	<4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7	<0.80	<3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6	<0.80	<3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3
Toluene	0.80	3.0	<0.80	<3.0	<0.80	<3.0	<0.80	<3.0
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

Collection Media : Mini Can Approved by : JMR



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490 NB-CLAS		L546490-11 NB-CLASS 1		L546490-12 NB-HALL 8	
	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 Supervisor: BLD

Collection Media : Mini Can Approved by : JMR Submitted by

: SAP Date : 22-SEP-21



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:		L546490-10 NB-CLASS 6			L546490-11 NB-CLASS 1		L546490-12 NB-HALL 8	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

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

Collection Media : Mini Can Approved by : JMR



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490-13 NB-CLASS 11		L546490-14 NB-CLASS 13		L546490-15 NB-HALL 16	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6	21	36	5.3	9.1
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	5.9	14	30	72	7.8	19
Bromomethane	0.80	3.1	<0.80	<3.1	<0.80	<3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1	<0.80	<2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4	<5.0	<8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5	<0.80	<3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8	<0.80	<1.8	<0.80	<1.8
Acetone	5.0	12	8.9	21	16	37	13	31

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

Collection Media : Mini Can Approved by : JMR



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:		L546490-13 NB-CLASS 11		L546490-14 NB-CLASS 13		L546490-15 NB-HALL 16		
	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	14	35	36	89	20	50
Acrylonitrile	0.80	1.7	<0.80	<1.7	<0.80	<1.7	<0.80	<1.7
Pentane	0.80	2.4	20	60	22	64	20	60
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 Supervisor: BLD

Collection Media : Mini Can Approved by : JMR



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490-13 NB-CLASS 11		L546490-14 NB-CLASS 13		L546490-15 NB-HALL 16	
	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	<2.9	<0.80	<2.9	<0.80	<2.9
Chloroform	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4	<0.80	<2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2	<0.80	<3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4	<0.80	<4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6	<0.80	<2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0	<0.80	<5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8	<0.80	<2.8	<0.80	<2.8

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

Collection Media : Mini Can Approved by : JMR Submitted by : SAP Date

: 22-SEP-21



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 : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

TO15 List

Galson ID: Client ID:		L546490-1 NB-CLASS		_			L546490-15 NB-HALL 16	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
l,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
l,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	3.1	3.6	14	1.4	5.1
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3	<0.80	<3.3	<0.80	<3.3

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

Collection Media : Mini Can Approved by : JMR Submitted by : SAP Date

: 22-SEP-21

Page 33 of 45

Version 1.000

Supervisor: BLD



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490-13 NB-CLASS 11		L546490-14 NB-CLASS 13		L546490-15 NB-HALL 16	
	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
n & 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 Supervisor: BLD

Collection Media : Mini Can Approved by : JMR Submitted by : SAP Date : 22-SEP-21

Page 31 of 38 Report Reference:1 Generated:22-SEP-21 15:54



FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057

LELAP Lab ID #04083

Client : Phase Separation Science, Inc. Account No.: 15354 Site : NAOMI BROOKS (MAURY) ES Login No. : L546490

Project No. : CITY OF ALEXANDRIA

Date Sampled : 10-SEP-21 Date Analyzed : 21-SEP-21 - 22-SEP-21

Date Received : 14-SEP-21 Report ID : 1266070

LABORATORY ANALYSIS REPORT

TO15 List

(315) 432-5227

Galson ID: Client ID:			L546490-13 NB-CLASS 11		L546490-14 NB-CLASS 13		L546490-15 NB-HALL 16	
	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
n-Propylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
4-Ethyltoluene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,3,5-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
1,2,4-Trimethylbenzene	0.80	3.9	<0.80	<3.9	<0.80	<3.9	<0.80	<3.9
Benzyl Chloride	0.80	4.1	<0.80	<4.1	<0.80	<4.1	<0.80	<4.1
1,3-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,4-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
1,2-Dichlorobenzene	0.80	4.8	<0.80	<4.8	<0.80	<4.8	<0.80	<4.8
Naphthalene	0.80	4.2	<0.80	<4.2	<0.80	<4.2	<0.80	<4.2

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

Collection Media : Mini Can Approved by : JMR

Submitted by : SAP Date : 22-SEP-21

Page 35 of 45

Version 1.000





GALSON

Client Name : Phase Separation Science, Inc.

Site : NAOMI BROOKS (MAURY) ES Project No. : CITY OF ALEXANDRIA

•

Date Sampled: 10-SEP-21 Account No.: 15354
Date Received: 14-SEP-21 Login No.: L546490

Date Analyzed: 21-SEP-21 - 22-SEP-21

L546490 (Report ID: 1266070):

6601 Kirkville Road

FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057 (315) 432-5227

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)

L546490-3 (Report ID: 1266070):

Sample canister was received at/near ambient pressure.

L546490-14-15 (Report ID: 1266070):

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

L546490-1 (Report ID: 1266070):

Due to a pressure differential issue, there may be low-level contamination in the sample due to

potential crossover with a standard. Any results below 2.0 ppbv may be biased high.

L546490-4 (Report ID: 1266070):

Due to a pressure differential issue, there may be low-level contamination in the sample due to

potential crossover with a standard. Any results below 3.0 ppbv may be biased high.

L546490 (Report ID: 1266070):

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	+/-13.1%	105%
4-Ethyltoluene	+/-13.9%	104%
Acrolein	+/-21.8%	93.1%





6601 Kirkville Road East Syracuse, NY 13057

(315) 432-5227 FAX: (315) 437-0571 www.sgsgalson.com

Client Name : Phase Separation Science, Inc. : NAOMI BROOKS (MAURY) ES Project No. : CITY OF ALEXANDRIA

Date Sampled: 10-SEP-21 Account No.: 15354 Date Received: 14-SEP-21 Login No. : L546490

Date Analyzed: 21-SEP-21 - 22-SEP-21

Acrylonitrile	+/-16.9%	100%
Allyl Chloride	+/-18.7%	97.5%
Acetonitrile	+/-17.4%	100%
Acetone	+/-14.6%	97.4%
Bromodichloromethane	+/-12.9%	100%
Bromoform	+/-14.4%	103%
1,3-Butadiene	+/-16.9%	97.5%
n-Butane	+/-18.7%	98%
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	+/-13.1%	104%
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	+/-11.2%	100%
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	+/-15.2%	104%
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	+/-17.9%	104%
n-Propylbenzene	+/-12.6%	105%
o-Xylene	+/-13.9%	101%
=		





6601 Kirkville Road East Syracuse, NY 13057

FAX: (315) 437-0571

www.sgsgalson.com

(315) 432-5227

Client Name : Phase Separation Science, Inc.

: NAOMI BROOKS (MAURY) ES

Project No. : CITY OF ALEXANDRIA

Date Sampled: 10-SEP-21 Account No.: 15354 Date Received: 14-SEP-21 Login No. : L546490

Date Analyzed: 21-SEP-21 - 22-SEP-21

Propylene	+/-18.8%	96.3%
Pentane	+/-18.7%	99.1%
Styrene	+/-15.2%	104%
Trichloroethylene	+/-12.8%	98.8%
tert-Butyl Alcohol	+/-16.4%	104%
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%

7.1091311 172313F40165206989 Date : 09/14/21 Shipper:UPS Invoice To*: Phase Separation Science Report To*: Phase Separation Science Initials:BGF New Client? 6630 Baltimore National Pike Baltimore MD 21228 Client Account No.*: Prep: UNKNOWN Phone No.: 410-747-8770 Phone No.*: 410-747-8770 East Syracuse, NY 13057 Tel: (315) 432-5227 Email: invoicing@phaseonline.com Cell No.: 888-432-I ARS (5227) P.O. No.: Email Results to : Amber Confer www.sasaalson.com Credit Card : Card on File Call for Credit Card Info. Email address: reporting@phaseonline.com Samples submitted using the FreeSamplingBadges™ Program Samples submitted using the FreePumpLoan™ Program (surcharge) Need Results By: Project: City of Alexandria Sampled by: Ted Kraus Site Name: Naomi Brooks (Maury) ES 0% Standard 4 Business Davs 35% Comments: 50% 3 Business Days 2 Rusiness Days 75% State samples were Please indicate which OEL this data will be used for : List description of industry or Process/interferences present in sampling area: Next Day by 6pm 100% collected in (e.g., NY) Cal OSHA OSHA PEL ACGIH TLV Next Day by Noon 150% VA ☐ MSHA Other (specify): Same Day 200% Hexavalent Chromium Sample Volume Sample Units*: Sample Identification* Analysis Requested* Method Reference⁴ Process (e.g., welding Date Sampled Collection Medium Sample Time L, ml,min,in2,cm2,ft2 (Maxmium of 20 Characters) Sample Area* plating, painting, etc.)* TO-15 (list) ua/m3 1L. 4hrs VOC (indoor air) Minican, 1L 09/10/21 NB-Class 28 TO-15 1L. 4hrs VOC (indoor air) 09/10/21 ug/m3 NB-Hall 25 Minican, 1L TO-15 VOC (indoor air) 09/10/21 Minican, 1L 1L. 4hrs ua/m3 NB-Cafe TO-15 VOC (indoor-air) --09/10/21 1L. 4hrs ug/m3 Minican, 1L NB-Gym a11314 TO-15 ug/m3 VOC (indoor air) 09/10/21 1L. 4hrs NB-Class 24 Minican, 1L TO-15 09/10/21 Minican, 1L 1L. 4hrs ua/m3 VOC (indoor air) NB-Class 21 TO-15 09/10/21 1L. 4hrs ug/m3 VOC (indoor air)-Minican, 1L NB-Class 18 TO-15 ug/m3 VOC (indoor air) 09/10/21 Minican, 1L 1L. 4hrs NB-Entrance (outdoor) TO-15 09/10/21 Minican, 1L 1L. 4hrs ug/m3 VOC (indoor air) **NB-Media Center** VOC-(indoor-air) TO-15 ua/m3 09/10/21 Minican, 1L 1L. 4hrs NB-Class 6 TO-15 09/10/21 Minican, 1L 1L. 4hrs ua/m3 VOC (indoor air) NR-Class 1 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)*: Date Print Name/Signature Date Time Time Print Name/Signature Chain of Custody 9/13/21 1244 ed Kaus Received by: Relinquished by Received by: Relinquished by Samples received after 3pm will be considered as next day's business

* Required dig to of the tree fields the dig to be seen as the control of the second o

	SGS	GALSON	New Client	66:	ase Sepa 30 Baltim Itimore, N	ore Natio	nal Pike	Invoice	To* : <u>Phase S</u>	eparatio	on Scie	ence	
	Tel: (315) 888-4	cuse, NY 13057	E	Phone No.* : 411 Cell No. : Email Results to : Am Email address: rep	nber Confe porting@p	er haseonlin		P.O. Credit (e No.: <u>410-747-87</u> mail : <u>invoicing@</u> . No. : Card : Card on Fi	phaseon	Call for Cred		
	Need Results By:	(surcharge)		[✔]	Samples sub	omitted usin	g the FreePumpLoan™ I	Program Sample	es submitted using th	e FreeSamp	olingBadge	s™ Progra	ım
Ø	Standard	1 0%	Site Name: Naomi	i Brooks (Maury) E	S	Pro	_{ject} : City of Alexar	ndria sa	mpled by: Ted Ki	raus			
	4 Business Day	35%	Comments :										ļ
	3 Business Day	50%											
	2 Business Day	s 75%						· · · · · · · · · · · · · · · · · · ·					
	Next Day by 6pm		List description of ind	lustry or Process/interfe	rences prese	ent in sampli	ing area :	State samples were collected in (e.g., NY)	Please indicate w	hich OEL th		be used	1
ᆜ	Next Day by Nooi	+						VA	MSHA	Other (s		□ care	ЗПА
	Same Day	200%		· · · · · · · · · · · · · · · · · · ·	Sample	Volume		77			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Hexavaler	nt Chromium
	Sample Ident (Maxmium of 20		Date Sampled	Collection Medium	Samp	le Time le Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Re	quested*	Method R	eference^	Process (e	e.g., welding ainting, etc.)*
NB	-Hall 8		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)	rs.	TO-15	(list)		
NB	-Class 11		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor-air)	<i>~~~</i> }	TO-15	. 1		
NB	-Class 13		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)	91314	TO-15			
NB	-Hall 16		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)		TO-15	<u> </u>		
^G	ialson Laboratories	will subsititute our	routine/preferred met	hod if it does not match	the method	l listed on the	e COC unless this box is	s checked: 🗸 Use metho	od(s) listed on COC				
Fo	r metals analysis: if	requesting an anal	yte with the option of	a lower LOQ, please inc	licate if the le	ower LOQ is	required (only available	e for certain analytes - see	SAG):				
Fo	r crystalline silica: fo	orm(s) of silica need	ded must be indicated	(Quartz, Cristobalite, a	nd/or Tridym	nite)* :						-	
Cha	ain of Custody	Pri	nt Name/Signature		Date	Time		Print N	ame/Signature		Da	te	Time
Rel	inquished by :	Ted	Wrang	9/	13/21	1244	Received by :				23.		
Rel	inquished by :					L	Received by :	aler	1 wo		9/13	U	1242
			* F	•				s next day's business	being processed.		F	age 2	of <u>2</u>



Chain of Custody Form for Subcontracted Analyses

Page 1 of 1

GEOWG THE STAND	<u></u>							
ase Separation S	Science, Inc		W.C). No. :	21091311	-	oles Transferred To: North America - N	
30 Baltimore Na				ect Location	Moom: Decoles (Moure) EC		Kirkville Road	
ltimore, MD 212 one: (410) 747-	8770		·	ect Number:	•		Syracuse, NY 1305	7
x: (410) 788-872	23		Rep	ort To LOD	: No		SGS Galson Labs. b	sc
or Questions o	r issues please contact: A	mber Confer		Report D	rue On :09/21/21 05:00	Phon	315-432-5227	
Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21091311-001	NB-Class 28	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21091311-002	NB-Hall 25	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21091311-003	NB- Cafe	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21091311-004	NB- Gym	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21091311-005	NB- Class 24	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON .
21091311-006	NB- Class 21	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21091311-007	NB- Class 18	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21091311-008	NB- Entrace (outdoor)	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21091311-009	NB- Media Center	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21091311-010	NB- Class 6	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21091311-011	NB- Class 1	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21091311-012	NB- Hall 8	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21091311-013	NB- Class 11	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21091311-014	NB- Class 13	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
21091311-015	NB- Hall 16	09/10/21	00:00	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON
———— Data Deliv	erables Required:	COA			Perform Q.C.	on Sample :		
	rt Attn: reporting@		om		•	[nvoiceAttn: i	nvoicing@phaseo	nline.com
_		nrrier:	ρ S		~ • • • • • • • • • • • • • • • • • • •			
ondition Upon R		· <u> </u>						
omments :		10.0105						
omments.	12	boxes						
amples Relinquis	shed By: Own W	Date: 91	3/21 7	Гіте:	Samples Received By : Brett Grei	nert-Fischer Bull	Junut - Jische	
amples Relinquis	shed By:	Date :		 Γime :	_ Samples Received By:		•	0 14
•					t Reference:1 Generated:22-SEP- Samples Received By:	-21 15:54		
amples Relinquis	siicu by.	Date.			Page 41 of 45	Version 1.000		



Case Narrative

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21091311

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.

21091311: 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.

(SGS	GALSON	New Client?	663 Rat	ase Sepa 60 Baltimo timore, M	ore Natio	nal Pike	Invoice	To*:Phase Se	eparatio	n Scie	ence		
	6601 Kirkvi	lle Rd use, NY 13057		Phone No.* : 410	-747-877	0		Phone	No.: 410-747-87	770				
	Tel: (315) 4	132-5227		Cell No. :				Eı	mail : invoicing@	phaseonli	ne.com			
		32-LABS (5227)	E	mail Results to : <u>Am</u>				P.O.	No.:					
	www.sgsg	alson.com		Email address: rep	orting@pl	haseonlin	ie.com	Credit C	ard : Card on Fi	le Ca	II for Cred	dit Card In	fo.	
				7 :	Samples sub	omitted usin	g the FreePumpLoan™ F	Program Sample	s submitted using the	e FreeSampli	ingBadge	s™ Progra	m	
	Need Results By:	(surcharge)			•								-0.00	
V	Standard	—	Site Name : Naomi	Brooks (Maury) E	S	Pro	_{ject} : City of Alexar	idria Sa	mpled by: Ted Ki	raus				
	4 Business Days		Comments :											
	3 Business Days	50%												
	2 Business Days Next Day by 6pm	75% 100%	List description of ind	ustry or Process/interfer	ences prese	ent in sampl	ing area :	State samples were	Please indicate w	hich OEL this	s data wil	be used t	for :	
	Next Day by Noon	150%	List decomption of me				3	collected in (e.g., NY)	OSHA PEL	ACGIH 1	LV	Cal C	DSHA	
	Same Day	200%						VA	☐ MSHA	Other (sp	ecify):			
	Sample Identit		Date Sampled	Collection Medium	e Volume le Time e Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Red	quested*	Method Re	ference^	Process (e	nt Chromium e.g., welding ainting, etc.)*		
NB-	·Class 28		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)		TO-15 (.list)			
	-Hall 25		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)		TO-15				
NB.	-Cafe		09/10/21	Minican, 1L	1L, 4hrs	ie .	ug/m3	VOC (indoor air)		TO-15				
NB.	-Gym		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)	Boo.	TO-15				
NB	-Class 24		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)	9/13/24	TO-15				
NB	-Class 21		09/10/21	Minican, 1L	1L, 4hrs	n.	ug/m3	VOC (indoor air) ·		TO-15				
NB	-Class 18		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)	TO PARAMETER STATE OF THE PARAMETER STATE OF	TO-15				
NB	-Entrance (outdo	oor)	09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)		TO-15				
NB	-Media Center		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)		TO-15				
NB	-Class 6		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)		TO-15				
NB	-Class 1		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)		TO-15	V			
^G	alson Laboratories w	ill subsititute our	routine/preferred metl	nod if it does not match	the method	listed on th	e COC unless this box is	checked: 🗸 Use metho	d(s) listed on COC					
Foi	metals analysis: if re	equesting an anal	yte with the option of a	lower LOQ, please ind	icate if the lo	ower LOQ is	required (only available	e for certain analytes - see	SAG):					
Foi	crystalline silica: for	m(s) of silica need	ded must be indicated	(Quartz, Cristobalite, ar	nd/or Tridym	nite)* :								
Cha	in of Custody	Pri	nt Name/Signature	1	Date	Time		Print Na	ame/Signature		Da	te	Time	
Reli	nquished by :	Ted	(Kans	91	13/21	1244	Received by:	Ot: 5	C ()==		v 1.5	1 -	10112	
Reli	nquished by :	1					Received by:	any	Color		Ca 13	121	1242	
			* R		Samples received after 3pm will be considered as next day's business * Required fields, failure to complete these fields may result in a delay in your samples being processed. Page of									

Page 43 of 45

	SGS	GALSON	New Client Client Account	663	30 Baltim	aration So ore Natio	nal Pike	Invoice 1	o*: <u>Phase So</u>	eparatio	on Scie	ence		
	6601 Ki	kville Rd		_										
	East Sy	acuse, NY 13057		Phone No.* : 41()-747-877	70			No.: <u>410-747-87</u>					
		5) 432-5227 -432-LABS (5227)		Cell No. :			-11-2	Em	ail : <u>invoicing@</u>	phaseon	line.com			
		agalaan aam	ļ	Email Results to : <u>Am</u>				P.O. N						
	vvvvv.sį	sgalson.com		Email address: rep	orting@p	haseonlir	ne.com	Credit Ca	rd : Card on Fil	Card on File Call for Credit Card Info.				
				7	Samplee eul	hmitted usin	g the FreePumpLoan™	Program Samples	submitted using the	e FreeSamr	olingBadge	s™ Progra	m	
	Need Results By:	(surcharge)			samples sui				submitted using the	e i reesamp	Jillig Dauge.	s i logia		
V	Standa	rd 0%	Site Name : Naom	Brooks (Maury) E	S	Pro	ject : City of Alexar	ndria Sam	pled by: Ted Kr	raus				
	4 Business Da	ys 35%	Comments:											
	3 Business Da	ys 50%												
	2 Business Da	ys 75%												
	Next Day by 6p	m 100%	List description of inc	lustry or Process/interfe	rences pres	ent in sampl	ing area :	State samples were	Please indicate w	CONTRACTOR DISCOURS STORY				
	Next Day by No	on 150%						collected in (e.g., NY)		Other (s		Cal (DSHA	
	Same D	ay 200%						VA	MSHA					
	Sample Ide (Maxmium of		Date Sampled	Collection Medium	Samp	e Volume le Time le Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requ	ested* Method		eference^	Process (nt Chromium e.g., welding ainting, etc.)*	
NB.	-Hall 8		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)	0.0	TO-15	(list)			
NB	-Class 11		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)	up	TO-15	1			
NB	-Class 13		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)	9/13/11	TO-15				
NB	-Hall 16		09/10/21	Minican, 1L	1L, 4hrs		ug/m3	VOC (indoor air)		TO-15				
			1.00								4			
	(H) (H)								*************************					
									· · · · · · · · · · · · · · · · · · ·					
			<u> </u>											
^G	alson Laboratorie	s will subsititute our	routine/preferred met	hod if it does not match	the method	listed on the	ECOC unless this box is	s 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):													
				(Quartz, Cristobalite, ar						manda (American de Manda Anti-				
Cha	in of Custody	Pri	nt Name/Signature	1	Date	Time		Print Nan	ne/Signature		Dat	te	Time	
Reli	inquished by :	Teel	Wrang	9/	3/21	1244	Received by:							
Reli	inquished by :						Received by:	aler	Ton		9/13	U	1242	
		Samples received after 3pm will be considered as next day's business * Required fields, failure to complete these fields may result in a delay in your samples being processed. Page 2 of 2												



Sample Receipt Checklist

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

Project Name: ACPS IAQ Testing PSS Project No.: 21091311

Total Environmental Concepts - Lorto Received By **Client Name** Amber Confer

Date Received 09/13/2021 12:42:00 PM **Disposal Date** 10/18/2021

> **Delivered By** Client

Not Applicable **Tracking No**

Amber Confer Logged In By

Shipping Container(s)

No. of Coolers

N/A Ice N/A

Custody Seal(s) Intact? Temp (deg C)

Seal(s) Signed / Dated? N/A Temp Blank Present No

Sampler Name **Documentation Ted Kraus**

COC agrees with sample labels? MD DW Cert. No. Yes N/A

Chain of Custody Yes

Sample Container Custody Seal(s) Intact? Not Applicable

Appropriate for Specified Analysis? Yes Seal(s) Signed / Dated Not Applicable

Intact? Yes

Labeled and Labels Legible? Yes

Total No. of Samples Received **Holding Time** 15

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

Preservation

10001 valio11		
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:	Jules of longer	Date: 09/13/2021	
	Amber Confer		

PM Review and Approval:

Lynn Jackson Page 45 of 45 Date: 09/13/2021

PHASE SEPARATION SCIENCE

TO-15 CHAIN OF CUSTODY FORM

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

www.phaseonline.com ~ info@phaseonline.com

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

			* -	(5		_	,						_(N						(1	<u>(1</u>
Relinquished By: (4)	Relinquished By: (3)	3	Relinguished Bv: (2)	Relinquished By: (1)				N15- Hall 16	N.B. Class 13	NIS-Class 11	NB-Hall 8		PSS ID SAMPLE IDENTIFICATION	SAMPLER(S):	SITE LOCATION: Alexand Fra	PROJECT NAME: Nasmi, BOOK	CONTACT: Karl Fard	BILL TO (if different):	PSS CLIENT: TEC	
Date	Date	Caro	Data	Date				2	17	11	13	12/0/21	DATE		, VA	127	EMAIL:	PHC	OFF	
Time	Time	ā	Timo	Time				12:51	15:22	12110	41.51	S1.18	Time Start (24hr clock)		P.O.#:	ement PROJECT #:	III: Kfb	PHONE #:	OFFICE LOCATION:	
Received By:	Received By:	Neceived by:	Donois de Dire	Received By:				1	1,	77	13	1/10/21	DATE				rde tec		: Lorba	
								95:28	854	1852	18:8	18:47	Time Stop (24hr clock)				2.000		VA	
	S	D		- (4)	>			(358	20365	1315	1278	1492		Can	ID	(<u>ئ</u>		PSS Work Order #:	
	Special Instructions:	Data Deliverat	Next Day	Requested TAT (1650	Wik 489	11486	17440	04332		Sam	ple Re	eg. ID)rder#:	1010
	ctions:	rables Required:	□ Eme	ed TAT (On				304 1	29	26	30	304		field	("Hg)					11:0)
		ed:	rgency [AT (One TAT per COC)				%	7	5	03	0		field	("Hg) ming (Caniste	er		PAGE	141-0110
] Other	:0C)] 2-Day												Hg) L			H	1000
	Ì															nbient			OF	(000) 332-304/
				Shipp										TO-1	5 Full	List			N	1406-
				Shipping Carrier:		1								Spec	ial Lis	t			"	
				rier:										REMARKS						

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

PHASE SEPARATION SCIENCE

TO-15 CHAIN OF CUSTODY FORM

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

www.phaseonline.com ~ info@phaseonline.com

6630 Baltimore National Pike ~ Suite 103-A ~ Baltimore, Maryland 21228 ~ (410) 747-8770 ~ (800) 932-9047 www.phaseonline.com info@phaseonline.com

			—(v		-		1	_		-	_	7	-	- (2		_				(L
Relinquished By: (4)	Relinquished By: (3)	Relinquisned By: (2)	Relinquished By: (1)	NB-Class 6	NB-Media lenter	NB-Entrare Outlo	NB-Class 18	NB- Class 21	NB- Class 24	NB-Gym	NB- OKA Case	N.B. Hall 75	NB-Class 28	PSS ID SAMPLE IDENTIFICATION	SAMPLER(S):	SITE LOCATION: Alexandra	PROJECT NAME: Nasa; Brook	CONTACT: Kerl Ford	BILL TO (if different):	PSS CLIENT:
Date	Date	Date	Date	4	11	or) (r	<	11	3.6	(1)	11	11	9/10/21	START		, VA	stlemen	EMAIL:	РНО	OFF
Time	Time	Time	Time	15:09	15:06	15:03	15:00	14.57	14:53	14 50	14,46	5H:H3	85:14	Time Start (24hr clock)		P.O. #:	A PROJECT#:	II. Kford	PHONE #:	OFFICE LOCATION:
Received By:	Received By:	Received By:	Received By:	11	7	77	7	;	7		~	(r	9/10/21	DATE				eteci		Lorton
				18:46	18:43	14.81	18:39	18136	18:33	18:29	18:27	18:26	18:24	Time Stop (24hr clock)				DVO		VA
	Ø		4	W2500	1476	2221	01220	3096	5098	80 15	1468	1308	1241	H	Can	ID	(٩		PSS Work Order #:
	Special Instructions	Data Delivera	Request 5-Day Next Day	27540	06390	1911-10	96396	WRSZE	06034	85440	04386	1441	52090		Sam	ple R	eg. ID	,		Order#:
	ictions:	bles Required:	TAT be:	30+	NA	82	38+	705	30+	29	KN	405	304				ressu Start	re in		
		uired:	One TAT 3-Day Emergency	N	00	N	~	_0	4	41	7	12	14			ster P ("Hg)	ressu Stop	re in		
			per coc												Incor Pres	ming (sure (Canist "Hg) L	er _ab		PAGE
) Day her												Soil	Gas /	Subsl	ab		7
			(0)												Indo	or / Ar	nbien	t Air		유
			Shipping													5 Full				7
			Shipping Carrier		9			-			93				Spec	ial Lis	st			1
			ñ		anse Brake						Sauce Broker				REMARKS					

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

Appendix D: Formaldehyde Analytical Results



Certificate of Analysis

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21091309

September 21, 2021

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

Reference: PSS Project No: 21091309

Project Name: ACPS IAQ Testing Project Location: Naomi Brooks

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) **21091309**.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 18, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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

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

Sincerely,

Dan Prucnal
Laboratory Manager

TNI Lyboratory



Explanation of Qualifiers

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21091309

Project ID: 4920002

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

PSS Sample ID	Sample ID	Matrix	Date/Time Collected	
21091309-001	NB- Class 28	AIR	09/10/21 00:00	
21091309-002	NB- Hall 25	AIR	09/10/21 00:00	
21091309-003	NB- Cafe	AIR	09/10/21 00:00	
21091309-004	NB- Gym	AIR	09/10/21 00:00	
21091309-005	NB- Class 24	AIR	09/10/21 00:00	
21091309-006	NB- Class 21	AIR	09/10/21 00:00	
21091309-007	NB- Class 18	AIR	09/10/21 00:00	
21091309-008	NB- Entrance	AIR	09/10/21 00:00	
21091309-009	NB- Media Center	AIR	09/10/21 00:00	
21091309-010	NB- Class 6	AIR	09/10/21 00:00	
21091309-011	NB- Class 1	AIR	09/10/21 00:00	
21091309-012	NB- Hall 8	AIR	09/10/21 00:00	
21091309-013	NB- Class 11	AIR	09/10/21 00:00	
21091309-014	NB- Class 13	AIR	09/10/21 00:00	
21091309-015	NB- Hall 16	AIR	09/10/21 00:00	

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

Notes:

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



Explanation of Qualifiers

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

SCIENCE

Project Name: ACPS IAQ Testing

PSS Project No.: 21091309

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.
- 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 September 21, 2021

Account# 15354 Login# L546496

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on September 14, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

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

Sincerely,

SGS Galson

Lisa Swab Laboratory Director

Lisa Luab

Enclosure(s)



ANALYTICAL REPORT

Account : 15354 Login No. : L546496

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.

Accreditation/Recognition

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.

AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead,
			Environmental Microbiology
State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and	Lab ID: 1042	Mold Analysis Laboratory license
	Regulation		

Lab ID#

Legend

National/International

< - Less than MDL - Method Detection Limit ppb - Parts per Billion mg - Milligrams > - Greater than ug - Micrograms NA - Not Applicable ppm - Parts per Million I - 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 ng - Nanograms in2 - Square Inches

Program/Sector



LABORATORY ANALYSIS REPORT

GALSON

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 : NAOMI BROOKS Login No. : L546496

Project No. : ACPS IAQ TESTING-4920002

Date Sampled : 10-SEP-21 Date Received : 14-SEP-21 Report ID : 1265201

Formaldehyde

		Time	Total	Conc	
<u>Sample ID</u>	<u>Lab ID</u>	minutes	uq	mq/m3	mqq
NB-CLASS 28	L546496-1	226	<0.4	<0.01	<0.01
NB-HALL 25	L546496-2	223	<0.4	<0.02	<0.01
NB-CAFE	L546496-3	221	<0.4	<0.02	<0.01
NB-GYM	L546496-4	219	<0.4	<0.02	<0.01
NB-CLASS 24	L546496-5	220	<0.4	<0.02	<0.01
NB-CLASS 21	L546496-6	219	<0.4	<0.02	<0.01
NB-CLASS 18	L546496-7	219	<0.4	<0.02	<0.01
NB-ENTRANCE	L546496-8	218	<0.4	<0.02	<0.01
NB-MEDIA CENTER	L546496-9	217	<0.4	<0.02	<0.01
NB-CLASS 6	L546496-10	217	<0.4	<0.02	<0.01
NB-CLASS 1	L546496-11	214	<0.4	<0.02	<0.01
NB-HALL 8	L546496-12	214	<0.4	<0.02	<0.01
NB-CLASS 11	L546496-13	213	<0.4	<0.02	<0.01
NB-CLASS 13	L546496-14	212	<0.4	<0.02	<0.01
NB-HALL 16	L546496-15	210	< 0.4	<0.02	<0.01

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

Level of Quantitation: 0.4 ug Submitted by: JLL Approved by: NKP

Analytical Method : mod. OSHA 1007; HPLC/UV Date : 21-SEP-21

Collection Media : Assay 581 Supervisor : MWJ





GALSON

Client Name : Phase Separation Science, Inc.

Site : NAOMI BROOKS

Project No. : ACPS IAQ TESTING-4920002

Date Sampled: 10-SEP-21 Account No.: 15354
Date Received: 14-SEP-21 Login No.: L546496

Date Analyzed: 15-SEP-21

L546496 (Report ID: 1265201):

6601 Kirkville Road

FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057 (315) 432-5227

Total ug corrected for a desorption efficiency of 96%.

FORMALDEHYDE results have been corrected for the average background found on the media:

0.1178 ug for lot #4B21 (samples 1-15).

SOPs: LC-SOP-4(23)

L546496 (Report ID: 1265201):

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%

21091309

													
SGS	GALSOI	New Client	t? Report To*	Phase Sep				Invoice T	o* : <u>Phase S</u>	eparati	on Scie	ence	
	UALUUI	Client Account	No *:	Baltimore,									
		Chem Account	. 140	,	_		 		-				
	irkville Rd yracuse, NY 13057		 Phone No.*		70			Phone I	No.: 410-747-8	770			<u>-</u>
Tel: (3	15) 432-5227		Cell No.			-			ail: invoicing@		line.com		
88	8-432-LABS (5227)		Email Results to	: Amber Con	fer				lo. : ODC 4920	•			
www.s	gsgalson.com		Email address			ne.com			rd : Card on Fi		Call for Cred	dit Card In	fo.
Need Results By	: (surcharge)			✓ Samples s	ubmitted usi	ng the FreePumpLoan™	Program 📙	Samples	submitted using th	e FreeSamp	olingBadge	s™ Progra	m
✓ Stand	lard 0%	Site Name : Naom	ni Brooks		Pro	oject: ACPS IAQ te	sting - 492000	2 Sam	pled by: Karl F	ord			
4 Business I	ays 35%	Comments:											
3 Business I	ays 50%	Dosimeter cart	rige # noted in	i the (Hexav	elent Chr	ornium Process) o	colum						
2 Business [ays 75%						-		1				
Next Day by 6		List description of inc	dustry or Process/in	terferences pre	sent in samp	ling area :	State samples we collected in (e.g.,		Please indicate v	_		_	
Next Day by N		Public grade	school					INT /	✓ OSHA PEL	ACGIH		Cal C	DSHA
Same	Day 200%			1 -		T	VA		MSHA	Other (specity):	T	
	entification* f 20 Characters)	Date Sampled	Collection Med	lium Sam	ile Volume ple Time ple Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Ana	lysis Requ	ested*	Method R	eference^	Process (e	nt Chromium e.g., welding ainting, etc.)*
NB - Class 28		09/10/21	Assay N581 Aldehyde Badge	226		Min	Formaldehyde	naldehyde mod. OSHA 1007: TPLC/UV PD4633			33		
NB - Hall 25		09/10/21	Assay N581 Aldehyde Badge	223		Min	Formaldehyde			mod. OSHA 1007;	TPLC/UV	PD4633	
NB - Cafe		09/10/21	Assay N581 Aldehyde Badge	221		Min	Formaldehyde			med. OSHA 1007;	TPLC/UV	PD510	8
NB - Gym		09/10/21	Assay N581 Aldehyde Badge	219		Min	Formaldehyde			mod, OSHA 1007:	TPLC/UV	PD5005	
NB - Class 24		09/10/21	Assay N581 Aldehyde Badge	220		Min	Formaldehyde			mod, OSHA 1007:	TPLC/UV	PD516	33
NB - Class 21		09/10/21	Assay N581 Aldehyde Badge	219		Min	Formaldehyde			mod. OSHA 1007;	TPLC/UV	PD489	98
NB - Class 18		09/10/21	Assay N581 Aldehyde Badge	219		Min	Formaldehyde			mod. OSHA 1007:	TPLC/UV	PD488	35
NB - Entrance		09/10/21	Assay N581 Aldehyde Badge	218		Min	Formaldehyde			mod. OSHA 1007:	TPLC/UV	PD51	52
NB - Media Cer	iter	09/10/21	Assay N581 Aldehyde Badge	217		Min	Formaldehyde			mod, OSHA 1007:	TPLC/UV	PD455	52
NB - Class 6		09/10/21	Assay N581 Aldehyde Badge	217		Min	Formaldehyde			mod. OSHA 1007:	TPLC/UV	PD419	96
NB - Class 1		09/10/21	Assay N581 Aldehyde Badge	214		Min	Formaldehyde			mod. OSHA 1007:	TPLC/UV	PD420	00
^Galson Laboratori	es will subsititute ou	routine/preferred met	thod if it does not m	natch the metho	d listed on th	e COC unless this box is	s checked: 🗸 Us	e method(s) listed on COC				
						required (only available							
		ded must be indicated							:				
Chain of Custody	Pr	nt Name/Signature		Date	Time			Print Nan	ne/Signature		Da	te	Time
Relinquished by:	Channing Jacks	oŋ		09/13/21	12:00	Received by:							
Relinquished by:	Tech	Kaus		9/13/21	1247	Received by:	alui	8 G	575		9/13	M	1242
# 1			Sam Require dage s f	nples received	l after 3pm NeRefieser	will be considered as	s next day's busi 21aŞ[F]y21 Si	ness Proples be	ing processed	\Q.(1\\C)		Page 1	of _2_
#300 					Page 8	3 of 14	We Ve	<u> </u>	00)	9	14/2	094

	SGS G	ALSON	New Client Client Account	663	30 Baltim	aration So lore Nation ID 21228	nal P			Invoice 1	^T o*÷ <u>Phase_S</u>	Separation	on Scie	nce	
	Tel: (315) 4	ise, NY 13057 32-5227 2-LABS (5227)		Phone No.* : 41(Cell No. : Email Results to : Am	ber Conf	er	5.			Em P.O. 1	No.: <u>410-747-8</u> ail : <u>invoicing@</u> No. : <u>ODC 4920</u>)phaseon 1002-001			
	vv vv. 3 g 3 g c	113011.00111		Email address <u>: rep</u>	orting@p	haseonlir	ne.con	<u>1</u>		Credit Ca	rd : Card on F	ile C	Call for Cred	lit Card In	nfo.
	Need Results By:	(surcharge)		\checkmark	Samples su	bmitted usin	g the Fi	eePumpLoan™	Program	Samples	submitted using tl	he FreeSamp	olingBadges	s™ Progra	m
Ø	Standard	0%	Site Name : Naom	i Brooks	•	Pro	ject: A	CPS IAQ te	sting - 492	20002 Sam	pled by: Karl F	ord			
	4 Business Days	35%	Comments:												
	3 Business Days	50%	Dosimeter carti	rige # noted in the	e (Hexave	elent Chro	omiun	n Process) c	olum						
	2 Business Days	75%													
	Next Day by 6pm	100%	List description of inc	dustry or Process/interfe	rences pres	ent in sampl	ing area	ı:	State sampl		Please indicate v				
	Next Day by Noon	150%	Public grade	school					collected in	(e.g., NY)	OSHA PEL			Cal (SHA
旦	Same Day	200%		·					VA		MSHA	Other (s	specify):		
	Sample Identifi (Maxmium of 20 C		Date Sampled	Collection Medium	Samp	e Volume lle Time le Area*		mple Units*: min,in2,cm2,ft2		Analysis Requ	ested*	Method R	eference^	Process (nt Chromium e.g., welding painting, etc.)*
NB	- Hail 8		09/10/21	Assay N581 Aldehyde Sadge	PD4213	}	Min	214	Formaldeh	/de		mod. OSHA 1007:	TPLC/UV		
NE	- Class 11		09/10/21	Assay N581 Aldehyde Badge	PD4188	3	Min	213	Formaldeh	/de		mod. OSHA 1007;	TPLC/UV		
NE	- Class 13		09/10/21	Assay N581 Aldehyde Badge	PD4795	5	Min	212	Formaldeh	/de		mod, OSHA 1007;	TPLC/UV		
NE	- Hall 16		09/10/21	Assay N581 Aldehyde Badge	PD4690)	Min	210	Formaldehy	/de		mod, OSHA 1007;	TPLCAUV		
							sel	byge Vml	povcho gjiyl	5·					
	ialcon I aboratories wi	Il subsititute ou	routine/preferred mel	thod if it does not match	the method	Listed on th	e COC i	inless this boy is	s checked:	Use method	s) listed on COC			-	
			······································	a lower LOQ, please ind								-	-	····	!
Fo	r crystalline silica: forr	n(s) of silica nee	ded must be indicated	(Quartz, Cristobalite, ar	nd/or Tridyn	nite)* :									
Ch	ain of Custody	Pri	int Name/Signature		Date	Time				Print Nan	ne/Signature		Dat	е	Time
Rel	inquished by : Cha	nning Jacks	on	09/	/13/21	12:00	Re	eceived by:							
Rel	inquished by :	Ted W	aus	9/	13/21	1242	_ ↓ Re	eceived by:	$\overline{\alpha}$	alind	CVI		9/13/	21	1242
	e e e e e e e e e e e e e e e e e e e			Sample: Require Rationals fafi t/re				considered as			ing processed		, ,		of 2

Page 9 of 14 Michelle Kranier 1.00 pichelle transe



Samples Relinquished By: ____ Date : ____

Chain of Custody Form for Subcontracted Analyses

Page 1 of 1

Phase Separation Science, Inc Samples Transferred To: W.O. No.: 21091309 SGS North America - NY 6630 Baltimore National Pike Project Location: Naomi Brooks Baltimore, MD 21228 6601 Kirkville Road Phone: (410) 747-8770 Project Number: 4920002 East Syracuse, NY 13057 Fax: (410) 788-8723 Report To LOD: No Old SGS Galson Labs, bsc For Ouestions or issues please contact: Amber Confer Phone: 315-432-5227 Report Due On:09/21/21 05:00 Lab Field Date Time Matrix Analyses Required Method Type of Preservative Sample ID Sample ID Sampled Sampled Container all 581 8/9/14/21 21091309-001 NB- Class 28 09/10/21 00:00 Air Formaldehyde (mod. OSHA 1007; HPLC/UV) VARIOUS NONSC 21091309-002 NB- Hall 25 09/10/21 00:00 Air Formaldehyde (mod. OSHA 1007: HPLC/UV) VARIOUS NONSC NON 21091309-003 NB- Cafe 09/10/21 00:00 Air Formaldehyde (mod. OSHA 1007; HPLC/UV) VARIOUS NONSC NON 21091309-004 NB- Gym 09/10/21 00:00 Air Formaldehyde (mod. OSHA 1007; HPLC/UV) VARIOUS NONSC NON 21091309-005 NB- Class 24 09/10/21 00:00 Air Formaldehyde (mod. OSHA 1007; HPLC/UV) **VARIOUS** NONSC NON 21091309-006 NB- Class 21 09/10/21 00:00 Formaldehyde (mod. OSHA 1007; HPLC/UV) Air VARIOUS NONSC NON 21091309-007 NB- Class 18 09/10/21 00:00 Air Formaldehyde (mod. OSHA 1007; HPLC/UV) VARIOUS NONSC NON 21091309-008 NB- Entrance 09/10/21 00:00 Air Formaldehyde (mod. OSHA 1007; HPLC/UV) VARIOUS NONSC NON 21091309-009 NB- Media Center 09/10/21 00:00 Air Formaldehyde (mod. OSHA 1007; HPLC/UV) **VARIOUS** NONSC NON 21091309-010 NB- Class 6 09/10/21 00:00 Air Formaldehyde (mod. OSHA 1007; HPLC/UV) VARIOUS NONSC NON 21091309-011 NB- Class 1 09/10/21 00:00 Formaldehyde (mod. OSHA 1007; HPLC/UV) Air **VARIOUS** NONSC NON 21091309-012 NB- Hall 8 09/10/21 00:00 Air Formaldehyde (mod. OSHA 1007; HPLC/UV) **VARIOUS** NONSC NON 21091309-013 NB- Class 11 09/10/21 00:00 Air Formaldehyde (mod. OSHA 1007; HPLC/UV) VARIOUS NONSC NON 21091309-014 NB- Class 13 09/10/21 00:00 Air Formaldehyde (mod. OSHA 1007; HPLC/UV) VARIOUS NONSC NON 21091309-015 NB- Hall 16 09/10/21 00:00 Air Formaldehyde (mod. OSHA 1007; HPLC/UV) **VARIOUS** NONSC NON Data Deliverables Required: COA Perform Q.C. on Sample: Send Report Attn: reporting@phaseonline.com Send InvoiceAttn: invoicing@phaseonline.com Airbill No.: _____ Carrier : ______ 1Z2313E40166036170 Condition Upon Receipt : Date:09/14/21 Shipper:UPS Comments: Initials:MAK Samples Relinquished By: Www.Date: 0132 Time: _____ Samples Received By : _____ Prep: UNKNOWN

Time : _____ Samples Received By: _

Samples Relinquished By: ______ Date: ____ Page 7 of 7 me: Report Reference: 1 Generated: 21-25-21-28-52 Muchelle Kyrause 91421 0940 Page 10 of 14



Case Narrative

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21091309

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.

	SGS G	ALSON	New Client?	New Client? Report To*: Phase Separation Science 6630 Baltimore National Pike			Invoice To	∘*∶ <u>Phase S</u>	eparatio	on Scie	nce			
		I LMO OI	Client Account N	No.*:	Bal	timore, N	1D 21228							
	6601 Kirkvi	lle Bd	***************************************	-								-		
	East Syracu	ise, NY 13057		Phone No.	* : <u>410</u>	-747-877	0			Phone No.: <u>410-747-8770</u>				
	Tel: (315) 4 888-43	32-5227 2-LABS (5227)		Cell No						Email: invoicing@phaseonline.com				
			E	mail Results to						o.: ODC 4920				
	www.sgsga	alson.com		Email addres	ss: rep	orting@p	haseonlin	ie.com	Credit Ca	rd : Card on Fi	le C	all for Cred	lit Card In	fo.
					V 5	Samples sul	omitted usin	g the FreePumpLoan™	Program Samples s	submitted using th	e FreeSamp	lingBadges	s™ Prograi	m
	Need Results By:	(surcharge)	NI	Dunalia				ject : ACPS IAQ te	ating 4020002 a	Luk Korl E	ord		·	
V	Standard		Site Name : Naomi	Brooks			Pro	ject : ACPS IAQ te	Stillig - 4920002 Samp	oled by: Karl Fo	oru			
	4 Business Days		Comments:	ne # noted	in the	(Heyaya	elent Chro	omium Process) o	colum					
H	3 Business Days	50%	Dosimeter carti	ge # Hoteu	iii tiic	(I ICXAVC	Sicht Offic	5////d/// / 100000/ C	,orann					
H	2 Business Days Next Day by 6pm	75% 100%	List description of inde	ustry or Process	/interfe	ences pres	ent in sampl	ing area :	State samples were	Please indicate w	hich OEL th	is data will	be used f	for:
H	Next Day by Noon	150%	,			, , , , , , , , , , , , , , , , , , ,		3	collected in (e.g., NY)	✓ OSHA PEL	ACGIH	TLV	Cal C	SHA
H	Same Day	200%	Public grade s	chool					VA	MSHA	Other (s	specify):		
	Sample Identifi (Maxmium of 20 C		Date Sampled	Collection M	edium	Samp	e Volume le Time le Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requ	ested*	Method R	eference^	plating, painting, etc.)*	
NB	- Class 28		09/10/21	Assay N581 Aldehyde Badg	e	226		Min	Formaldehyde		mod. OSHA 1007:	TPLC/UV	PD463	3
NB	- Hall 25		09/10/21					Formaldehyde		mod. OSHA 1007:	TPLC/UV	PD463	3	
NB	- Cafe		09/10/21	Assay N581 Aldehyde Badg	je	221		Min	Formaldehyde		mod. OSHA 1007:	TPLC/UV	PD510	8
NB	- Gym		09/10/21	Assay N581 Aldehyde Badg	e	219		Min	Formaldehyde		mod. OSHA 1007:	TPLC/UV	PD5005	
NB	- Class 24		09/10/21	Assay N581 Aldehyde Badg	e	220		Min	Formaldehyde		mod. OSHA 1007:	TPLC/UV	PD516	i3
NB	- Class 21		09/10/21	Assay N581 Aldehyde Badg	e	219	_	Min	Formaldehyde		mod. OSHA 1007:	TPLC/UV	PD489	18
NB	- Class 18		09/10/21	Assay N581 Aldehyde Badg	ie .	219		Min	Formaldehyde		mod. OSHA 1007:	TPLC/UV	PD488	35
NB	- Entrance		09/10/21	Assay N581 Aldehyde Bado	је	218		Min	Formaldehyde		mod. OSHA 1007:	TPLC/UV	PD515	52
NB	- Media Center		09/10/21	Assay N581 Aldehyde Badg	je	217		Min	Formaldehyde		mod. OSHA 1007:	TPLC/UV	PD455	j2
NB	- Class 6		09/10/21	Assay N581 Aldehyde Badg	je	217		Min	Formaldehyde		mod. OSHA 1007:	TPLC/UV	PD419	16
	- Class 1		09/10/21	Assay N581 Aldehyde Badg		214		Min	Formaldehyde		mod. OSHA 1007:	TPLC/UV	PD420	10
^G	alson Laboratories w	II subsititute our	routine/preferred meth	nod if it does no	t match	the method	l listed on th	e COC unless this box i	s checked: 🚺 Use method(s) listed on COC				
Fo	r metals analysis: if re	questing an analy	yte with the option of a	lower LOQ, ple	ase ind	icate if the I	ower LOQ is	required (only available	e for certain analytes - see SA	AG):				
Fo	r crystalline silica: for	m(s) of silica need	ded must be indicated	(Quartz, Cristoba	alite, ar	nd/or Tridyn	nite)* :							
Cha	ain of Custody	Pri	nt Name/Signature		1	Date	Time		Print Nam	ne/Signature		Da	te	Time
Rel	inquished by : Cha	anning Jacks	on		09/	13/21	12:00	Received by :						12
Rel	inquished by:	Ted !	Kaus		91	13/21	1242	Received by:		5		9/13	N	1242
	Samples received after 3pm will be considered as next day's business * Required fields, failure to complete these fields may result in a delay in your samples being processed. Page 1 of 2													

Page 12 of 14

(SGS	GALSON	New Client	New Client? Report To*: Phase Separation Science 6630 Baltimore National Pike				Invoice To	∘*∶ <u>Phase S</u> e	eparati	on Scie	nce		
	000	UALOUN	Client Account	Po	Itimore, IV									
	6601 Ki	kville Rd		_										
	East Sy	acuse, NY 13057		Phone No.* : 410	0-747-877	0			Phone No.: 410-747-8770					
		5) 432-5227 -432-LABS (5227)		Cell No. :					Ema	ail : invoicing@	phaseon	line.com		
			E	mail Results to : <u>Am</u>	ber Confe	er			P.O. N	o.: <u>ODC 4920</u>	002-001			
	www.sg	sgalson.com		Email address: rep	orting@pl	haseonlin	ie.com		Credit Card : Card on File Call for Credit Card Info.					
					Clh		a tha Cara Durant a an IM	Dua	Program Samples submitted using the FreeSamplingBadges™ Program					
	Need Results By:	(surcharge)			Samples sub		g the FreePumpLoan™					piingBadges	Progra	m
V	Standa	rd 0%	Site Name : Naom	Brooks		Pro	ject : ACPS IAQ te	sting - 492	0002 Samp	oled by: Karl Fo	ord			
	4 Business Da	ys 35%	Comments:	S SERVE NO SE	201.0									
	3 Business Da	ys 50%	Dosimeter cartr	ige # noted in the	e (Hexave	elent Chro	omium Process) c	olum						
	2 Business Da	ys 75%	_											
	Next Day by 6p	m 100%	List description of ind	ustry or Process/interfe	rences prese	ent in sampl	ing area :	State sample collected in (004110 NO.000	Please indicate w				
	Next Day by No	on 150%	Public grade s	school									JSHA	
	Same D	ay 200%	9	VA Guilla (appearly).										
	Sample Ide (Maxmium of		Date Sampled	Sample Area*					ested*	Method R	ethod Reference [^] Process (e.g., plating, paint		g., welding	
NB	- Hall 8		09/10/21	Assay N581 Aldehyde Badge	Badge PD4213 Min Formald				de		mod. OSHA 1007:	TPLC/UV		
NB	- Class 11		09/10/21	Assay N581 Aldehyde Badge	PD4188		Min	Formaldehy	de		mod. OSHA 1007:	TPLC/UV		
NB	- Class 13		09/10/21	Assay N581 Aldehyde Badge	PD4795		Min	Formaldehy	de		mod. OSHA 1007:	TPLC/UV		
NB	- Hall 16		09/10/21	Assay N581 Aldehyde Badge	PD4690		Min	Formaldehy	de		mod. OSHA 1007: TPLC/UV			
			1											
^G	alson Laboratorie	will subsititute our	routine/preferred met	hod if it does not match	the method	listed on the	e COC unless this box is	s checked:	Use method(s	s) listed on COC				
Foi	r metals analysis:	f requesting an anal	yte with the option of	a lower LOQ, please ind	licate if the lo	wer LOQ is	required (only available	e for certain a	nalytes - see SA	G):				
Foi	r crystalline silica:	form(s) of silica need	ded must be indicated	(Quartz, Cristobalite, a	nd/or Tridym	ite)* :								
Chain of Custody Print Name/Signature Date Time						Time			Print Nam	e/Signature		Dat	e	Time
Reli	inquished by :	Channing Jacks	on	09	/13/21	12:00	Received by:							
Rel	inquished by :	Ted Ka	aus	9/	13/21	1242	Received by :	a	ale d	CUM		9/13/	21	1242
	Samples received after 3pm will be considered as next day's business * Required fields, failure to complete these fields may result in a delay in your samples being processed. Page 2 of 2													

Page 13 of 14



Sample Receipt Checklist

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

Project Name: ACPS IAQ Testing PSS Project No.: 21091309

Client Name Total Environmental Concepts - Lorto Received By Amber Confer

Delivered By Client

Tracking No Not Applicable

Logged In By Amber Confer

Shipping Container(s)

No. of Coolers 0

Ice N/A

Custody Seal(s) Intact? N/A Temp (deg C)

Seal(s) Signed / Dated?

N/A Temp Blank Present No

Documentation Sampler Name <u>Karl Ford</u>

COC agrees with sample labels? Yes MD DW Cert. No. N/A

Chain of Custody Yes

Sample Container Custody Seal(s) Intact? Not Applicable

Appropriate for Specified Analysis? Yes Seal(s) Signed / Dated Not Applicable

Intact? Yes

Labeled and Labels Legible? Yes

Holding Time Total No. of Samples Received 15

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

Preservation

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

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

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

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

PM Review and Approval:

Lynn Jackson
Page 14 of 14

Date: 09/13/2021

SGS	ALSOI	New Client?	Report To* :					Invoice To	o* :				
343	ALSUI	Client Account											
		Cheffit Account											
6601 Kirkvi	lle Rd use, NY 13057		 Phone No.* :					Phone N	0.:				
Tel: (315) 4	32-5227		Cell No. :					Phone No.: Email :					
888-43	2-LABS (5227)							P.O. No	0. :				
www.sgsga	alson.com					Credit Car	d : Card on Fi	le 🗌	Call for Cred	dit Card Ir	nfo.		
			_										
Need Results By:	(surcharge)			Samples subn	nitted usin	g the FreePumpLoan [™]	Program	Samples s	ubmitted using th	e FreeSam	plingBadge	s™ Progra	am.
Standard	0%	Site Name :			Pro	ject :		Samp	oled by :				
4 Business Days	35%	Comments :											
3 Business Days	50%												
2 Business Days	75%												
Next Day by 6pm	100%	List description of ind	ustry or Process/interfer	ences presen	t in sampli	ing area :	State samples we		Please indicate w				
Next Day by Noon	150%						collected in (e.g., I	NY)	OSHA PEL	_		Cal (DSHA
Same Day	200%								MSHA	Other (specify):		
Sample Identifi (Maxmium of 20 Cl		Date Sampled	Date Sampled Collection Medium Sample Volume Sample Units*: Sample Time Sample Area* L, ml,min,in2,cm2,ft2						ested*	Method F	Reference^	Process (ent Chromium (e.g., welding painting, etc.)*
^Galson Laboratories wil	II subsititute ou	r routine/preferred meth	I nod if it does not match	the method li	sted on the	e COC unless this box is	s checked: Use	e method(s) listed on COC				
For metals analysis: if re-	questing an ana	lyte with the option of a	lower LOQ, please indi	cate if the low	ver LOQ is	required (only availabl	e for certain analyte	es - see SA	G):				
For crystalline silica: forr	n(s) of silica nee	eded must be indicated	(Quartz, Cristobalite, an	d/or Tridymit	e)*:								
Chain of Custody	Pr	int Name/Signature		Date	Time		F	Print Nam	e/Signature		Da	te	Time
Relinquished by :		-				Received by :							
Relinquished by:						Received by :							
		* R	Samples equired fields, failure			will be considered as elds may result in a			ng processed.		P	'age	of

SGS	ALSOI	New Client?	Report To* :					Invoice To	o* :				
343	ALSUI	Client Account											
		Cheffit Account											
6601 Kirkvi	lle Rd use, NY 13057		 Phone No.* :					Phone N	0.:				
Tel: (315) 4	32-5227		Cell No. :					Phone No.: Email :					
888-43	2-LABS (5227)							P.O. No	0. :				
www.sgsga	alson.com					Credit Car	d : Card on Fi	le 🗌	Call for Cred	dit Card Ir	nfo.		
			_										
Need Results By:	(surcharge)			Samples subn	nitted usin	g the FreePumpLoan [™]	Program	Samples s	ubmitted using th	e FreeSam	plingBadge	s™ Progra	am.
Standard	0%	Site Name :			Pro	ject :		Samp	oled by :				
4 Business Days	35%	Comments:											
3 Business Days	50%												
2 Business Days	75%												
Next Day by 6pm	100%	List description of ind	ustry or Process/interfer	ences presen	t in sampli	ing area :	State samples we		Please indicate w				
Next Day by Noon	150%						collected in (e.g., I	NY)	OSHA PEL	_		Cal (DSHA
Same Day	200%								MSHA	Other (specify):		
Sample Identifi (Maxmium of 20 Cl		Date Sampled	Date Sampled Collection Medium Sample Volume Sample Units*: Sample Time Sample Area* L, ml,min,in2,cm2,ft2						ested*	Method F	Reference^	Process (ent Chromium (e.g., welding painting, etc.)*
^Galson Laboratories wil	II subsititute ou	r routine/preferred meth	I nod if it does not match	the method li	sted on the	e COC unless this box is	s checked: Use	e method(s) listed on COC				
For metals analysis: if re-	questing an ana	lyte with the option of a	lower LOQ, please indi	cate if the low	ver LOQ is	required (only availabl	e for certain analyte	es - see SA	G):				
For crystalline silica: forr	n(s) of silica nee	eded must be indicated	(Quartz, Cristobalite, an	d/or Tridymit	e)*:								
Chain of Custody	Pr	int Name/Signature		Date	Time		F	Print Nam	e/Signature		Da	te	Time
Relinquished by :		-				Received by :							
Relinquished by:						Received by :							
		* R	Samples equired fields, failure			will be considered as elds may result in a			ng processed.		P	'age	of

Appendix E: 4-PCH Analytical Results



Certificate of Analysis

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21091310

September 21, 2021

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

Reference: PSS Project No: 21091310

Project Name: ACPS IAQ Testing Project Location: Naomi Brooks

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) **21091310**.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 18, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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

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

Sincerely,

Dan Prucnal
Laboratory Manager





Explanation of Qualifiers

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21091310

Project ID: 4920002

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

PSS Sample ID	Sample ID	Matrix	Date/Time Collected	
21091310-001	NB- Class 28	AIR	09/10/21 00:00	
21091310-002	NB- Hall 25	AIR	09/10/21 00:00	
21091310-003	NB- Cafe	AIR	09/10/21 00:00	
21091310-004	NB- Gym	AIR	09/10/21 00:00	
21091310-005	NB- Class 24	AIR	09/10/21 00:00	
21091310-006	NB- Class 21	AIR	09/10/21 00:00	
21091310-007	NB- Class 18	AIR	09/10/21 00:00	
21091310-008	NB- Entrance	AIR	09/10/21 00:00	
21091310-009	NB- Media Center	AIR	09/10/21 00:00	
21091310-010	NB- Class 6	AIR	09/10/21 00:00	
21091310-011	NB- Class 1	AIR	09/10/21 00:00	
21091310-012	NB- Hall 8	AIR	09/10/21 00:00	
21091310-013	NB- Class 11	AIR	09/10/21 00:00	
21091310-014	NB- Class 13	AIR	09/10/21 00:00	
21091310-015	NB- Hall 16	AIR	09/10/21 00:00	

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

Notes:

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



Explanation of Qualifiers

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

SCIENCE

Project Name: ACPS IAQ Testing

PSS Project No.: 21091310

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.
- 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 September 21, 2021

Account# 15354 Login# L546493

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on September 14, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

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

Sincerely,

SGS Galson

Lisa Swab Laboratory Director

Lisa Luab

Enclosure(s)



ANALYTICAL REPORT

Account : 15354 Login No.: L546493

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.
- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

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

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

National/International	Accreditation/Recognition	Lab ID#	Program/Sector
AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP	ISO/IEC 17025 and USEPA NLLAP	Lab ID 100324	Industrial Hygiene, Environmental Lead,
			Environmental Microbiology
State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials
Texas	Texas Dept. of Licensing and	Lab ID: 1042	Mold Analysis Laboratory license
	Regulation		

Legend

< - Less than MDL - Method Detection Limit mg - Milligrams ppb - Parts per Billion > - Greater than ug - Micrograms NA - Not Applicable ppm - Parts per Million I - 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 ng - Nanograms in2 - Square Inches



LABORATORY ANALYSIS REPORT

GALSON

6601 Kirkville Road

East Syracuse, NY 13057

(315) 432-5227 FAX: (315) 437-0571 www.sqsqalson.com

Client : Phase Separation Science, Inc. Account No.: 15354 Login No. : L546493

: NAOMI BROOKS Site

Project No. : ACPS IAQ TESTING-4920002

Date Sampled : 10-SEP-21 Date Analyzed : 16-SEP-21 Date Received : 14-SEP-21 Report ID : 1265459

4-Phenylcyclohexene (4PCH low LOQ)

		Air Vol	Front	Back	Total	Conc	ppm
Sample ID	<u>Lab ID</u>	liter	uq	uq	uq	mq/m3	
NB-CLASS 28	L546493-1	45.2	<0.2	<0.2	<0.2	<0.005	<0.0007
NB-HALL 25	L546493-2	44.6	<0.2	<0.2	<0.2	<0.005	<0.0007
NB-CAFE	L546493-3	44.2	<0.2	<0.2	<0.2	<0.005	<0.0007
NB-GYM	L546493-4	43.8	<0.2	<0.2	<0.2	<0.005	<0.0007
NB-CLASS 24	L546493-5	43.6	<0.2	<0.2	<0.2	<0.005	<0.0007
NB-CLASS 21	L546493-6	43.8	<0.2	<0.2	<0.2	<0.005	<0.0007
NB-CLASS 18	L546493-7	43.8	<0.2	<0.2	<0.2	<0.005	<0.0007
NB-ENTRANCE	L546493-8	43.6	<0.2	<0.2	<0.2	<0.005	<0.0007
NB-MEDIA CENTER	L546493-9	43.4	<0.2	<0.2	<0.2	<0.005	<0.0007
NB-CLASS 6	L546493-10	43.4	<0.2	<0.2	<0.2	<0.005	<0.0007
NB-CLASS 1	L546493-11	42.8	<0.2	<0.2	<0.2	<0.005	<0.0007
NB-HALL 8	L546493-12	42.8	<0.2	<0.2	<0.2	<0.005	<0.0007
NB-CLASS 11	L546493-13	42.6	<0.2	<0.2	<0.2	<0.005	<0.0007
NB-CLASS 13	L546493-14	42.4	<0.2	<0.2	<0.2	<0.005	<0.0008
NB-HALL 16	L546493-15	42	<0.2	<0.2	<0.2	<0.005	<0.0008

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

Level of Quantitation: 0.2 ug Submitted by: ECB Approved by: MLN

Analytical Method : mod. NIOSH 1501; GC/PID Date : 20-SEP-21

Collection Media : 226-01 Supervisor : KAG





Client Name : Phase Separation Science, Inc.

: NAOMI BROOKS

Project No. : ACPS IAQ TESTING-4920002

Date Sampled : 10-SEP-21 Account No.: 15354 Date Received: 14-SEP-21 Login No. : L546493

Date Analyzed: 16-SEP-21

L546493 (Report ID: 1265459):

6601 Kirkville Road

FAX: (315) 437-0571

www.sgsgalson.com

East Syracuse, NY 13057 (315) 432-5227

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

L546493 (Report ID: 1265459):

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

Parameter	Accuracy	Mean Recovery
4 Phanalanalahanana (4PQU lan 100)	. / 100	00.28
4-Phenylcyclohexene (4PCH low LOQ)	+/-18%	88.2%

	313E40165206989	U5410	493		· ·	21091	310					
	::09/14/21 pper:UPS		Report To*: Pha	se Separa	ation Scie	ence	Invoice To	*:Phase Se	paration	Scier	ıce	
Ini	ials:BGF	New Client?	663	0 Baltimor	e Nationa	al Pike						
		Client Account N	o.*: Balt	timore, ME	21228							
Pre	: UNKNOWN											
			Phone No.* : 410	-747-8770			Phone N	o.: <u>410-747-87</u>	70			
	East Syracuse, NY 13057 Tel: (315) 432-5227		Cell No. :				Ema	il : <u>invoicing@</u> r	<u>ohaseonline</u>	e.com		
	888-432-LABS (5227)	(93) E	mail Results to : Am				P.O. No	o.: <u>ODC 49200</u>				
	www.sgsgalson.com		Email address: rep			.com	Credit Car	d : Card on File	e Call	for Credi	t Card Inf	io.
							a	ubmitted using the	FracSampling	Teanhe Ar	M Program	m
	Need Results By: (surcharge)		√ :	Samples subn		the FreePumpLoan™ F						
	Need Results By: (surcharge) Standard 0%	Site Name: Naomi	Brooks		Proje	ct: ACPS IAQ te	sting - 4920002 Samp	led by: Karl Fo	ord			
My	4 Business Days 35%	Comments :										
(N.	3 Business Days 50%	Gommona										
	2 Business Days 75%						ı — — — — — — — — — — — — — — — — — — —					
	Next Day by 6pm 100%	List description of ind	ustry or Process/interfe	rences preser	nt in samplin	ng area :	State samples were collected in (e.g., NY)	Please indicate w		_	De used for	
	Next Day by Noon 150%	Public grade s	chool				VA		Other (spec		00.10	
	Same Day 200%	Public grade s					VA				Hexavalen	nt Chromium
	Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Sample Sample	Time	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Reque	ested*	Method Refer	rence^	Process (e.	e.g., welding ainting, etc.)*
	NB - Class 28	09/10/21	Sm Charcoal tubes / 226-01	45.2		L	4-Phenylcyclohexene		mod. NIOSI	1 1501		
	NB - Hall 25	09/10/21	Sm Charcoal tubes / 226-01	44.6		L	4-Phenylcyclohexene		mod. NIOSI	1 1501		
		09/10/21	Sm Charcoal tubes / 226-01	44.2		L	4-Phenylcyclohexene		mod. NIOSI	1 1501		<u>.</u>
	NB - Cafe	09/10/21	Sm Charcoal tubes / 226-01	43.8		L.	4-Phenylcyclohexene		mod. NIOSI	H 1501		
	NB - Gym	09/10/21	Sm Charcoal tubes / 226-01	43.6		L	4-Phenylcyclohexene		mod. NIOSI	1501		
	NB - Class 24	09/10/21	Sm Charcoal tubes / 226-01	 		L.	4-Phenylcyclohexene		mod. NIOSI	Ⅎ 1501		
	NB - Class 21	09/10/21	Sm Charcoal tubes / 226-0	100		L	4-Phenylcyclohexene		mod. NIOSI	Ⅎ 1501		
	NB - Class 18	09/10/21	Sm Charcoal tubes / 226-0	1.00		L	4-Phenylcyclohexene		mod. NIOSI	H 1501		
	NB - Entrance		Sm Charcoal tubes / 226-0	1		L	4-Phenylcyclohexene		mod. NIOSI	1 1501		
	NB - Media Center	09/10/21	Sm Charcoal tubes / 226-0			L	4-Phenylcyclohexene		mod. NIOSI	Ⅎ 1501		
	NB - Class 6	09/10/21	Sm Charcoal tubes / 226-0			1.	4-Phenylcyclohexene		mod. NIOSI	H 1501		
	NB - Class 1 ^Galson Laboratories will substitute o	09/10/21			listed on the	COC unless this hox		s) listed on COC	<u>-</u>			
	^Galson Laboratories will subsititute o	ur routine/preferred me	thod if it does not mate	n the method	instea on the	required lonly availab	le for certain analytes - see Se					•
	For metals analysis: if requesting an an	alyte with the option of	a lower LOQ, please in	dicate if the id	wer LOU is	required (Only availab	le for certain analytos 500 o.	:	<u>,</u>	····		
	For crystalline silica: form(s) of silica no	eeded must be indicated	d (Quartz, Cristobalite,				Print Nan	ne/Signature		Dat	e	Time
	Chain of Custody		Date	12:00	Received by :	i mit Ivan	io dignaturo		Date Time			
	Relinquished by : Channing Jac	1	9/13/21	1743		aver	21020	10	21131	21	1242	
	Relinquished by:	Lrans			1 - 12	/ I	is next day's business	/ / 0 		-,- ,		
		*	Requileagielosofii	ne Kochout i	Referent	eds rowresyleid:	zdelsycip yzurgamples be	ing processed.	~	P:	age_1	of <u>2</u>

Brett Grewersi Bischoo Britt Dunut - Fischer

914121 0944

	<u>*•</u>								Invoice To	o*∹ <u>Phase Se</u>	naration	Scier	1CE	
4	CCC		New Client?	Report To* : Ph	ase Separa 30 Baltimo	ation Science	ence		mvoice 10	riiase se	sparation	OUICI	100	
ď	505	GALSON		-Da	ttimore, Mi	7 21228	idi Fike							
			Client Account N	lo.*:			1							
	0004 K:-	kville Rd		- -			=4		Phone N	o.: 410-747-87	70			
	East Syr	acuse, NY 13057		Phone No.* : <u>41</u>	<u>0-747-8770</u>)				il : invoicing@		com	-	
	Tel: (31	i) 432-5227 -432-LABS (5227)		Cell No.:						o.: ODC 49200		.00111		
			E	mail Results to : An						d : ☐ Card on Fil		or Credi	t Card Inf	fo.
	www.sg	sgalson.com		Efficial address- <u>reporting@priceseori.inc.ee</u>										·
		(aurahanna)		abla	Samples submitted using the FreePumpLoan™ Program Samples submitted using the FreeSame Samples submitted using the FreeS								[™] Prograr	n
	Need Results By:	(surcharge)	Site Name: Naomi	Brooks		Proj	ect : ACPS IAQ te	sting - 492	20002 Samp	oled by: Karl Fo	ord			
] [5]	Standa	"- 												
	4 Business D	/	Comments:											
=	3 Business D	"				_						-		
믐	Next Day by 6		List description of ind	lustry or Process/interl	erences prese	State samp collected in		Please indicate w			be used f			
片	Next Day by No				C				(e.g., 141)	MSHA	ACGIH TLV Cal OS Other (specify):		JOHA	
片	Same D		Public grade s	school		☐ MSHA		,,,,,, 	Havavalar	nt Chromium				
屵				Collection Medium	Sample Volume Sample Units*: L, ml,min,in2,cm2,ft2				Analysis Requ	ested*	Method Reference [^] Process (e.g		g., welding	
1	Sample Identification* Date Sampled Collection I (Maxmium of 20 Characters)		Collection Wedian	Sampl	e Area*	L, mi,min,inz,citiz,itz				mod, NIOSH	1 1 5 0 1	plating, pa	ainting, etc.)*	
NB	3 - Hall 8	18 09/10/21 Sm Charcoal tube		Sm Charcoal tubes / 226-0	42.8		L.	4-Phenylc	yclohexene		 		.	
<u> </u>	3 - Class 11	00/40/04		Sm Charcoal tubes / 226-0	42.6		L	4-Phenylc	yclohexene		mod. NIOSH			
-	3 - Class 13		09/10/21	Sm Charcoal tubes / 226-	01 42.4		L	4-Phenylcyclohexene			mod. NIOSF	1 1501		
-			09/10/21	Sm Charcoal tubes / 226-	01 42.0		L	4-Phenylo	4-Phenylcyclohexene			mod. NIOSH 1501		
NE	3 - Hall 16		03/10/21	 									_	
	<u> </u>													
								 						
								 			 			
-											<u> </u>			
-														
-														
-														
_			<u> </u>		oh the method	d listed on ti	he COC unless this box	is checked:	✓ Use method	(s) listed on COC				
	Galson Laborator	es will subsititute ou	ır routine/preferred me	ethod if it does not ina	CIT ATE THE LINC	lawar I OO i	s required (only availab	le for certair	analytes - see S	AG):				
F	or metals analysi	s: if requesting an ana	alyte with the option of	f a lower LOQ, please	indicate if the	lower LOG I	s required (only availab					- "		
F	For crystalline silic		eded must be indicate	•				T	Print Nar	me/Signature		Dat	e	Time
С	hain of Custody		rint Name/Signature		Date	12:00	Received by		1 HIR IVAI					
R	Relinquished by: Channing Jackson				09/13/21	12:00		1 7	Jan J	Math	7 913/21		21	1242
R	elinquished by	Ted	Kraus_	Samr	9/13/2 (ples received	l after 3pm	will be considered a	is next day	's business		•I	-		of 2
			*	RequiRatgrelosofai	Ture Recomb	Referen	delds dengsylteid:	5 de@k jb-7	purosamples b	eing processed.			aye	. 0

Brett Greneffinslipe But Munut - Fischer



Chain of Custody Form for Subcontracted Analyses

hase Separation Science, Inc 630 Baltimore National Pike saltimore, MD 21228 hone: (410) 747-8770		Proje Proje	ect Number		SGS 1 6601 East 5	Samples Transferred To: SGS North America - NY 6601 Kirkville Road East Syracuse, NY 13057				
x: (410) 788-8723			Rep	ort To LOD): No	Old S Phone	GGS Galson Labs. be: 315-432-5227	esc		
or Questions or	issues please contact: A	mber Confer		Report I	Oue On :09/21/21 05:00		313-432-3227			
Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative		
21091310-001	NB- Class 28	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-002	NB- Hall 25	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-003	NB- Cafe	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-004	NB- Gym	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-005	NB- Class 24	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-006	NB- Class 21	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-007	NB- Class 18	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-008	NB- Entrance	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-009	NB- Media Center	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-010	NB- Class 6	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-011	NB- Class 1	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-012	NB- Hall 8	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-013	NB- Class 11	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-014	NB- Class 13	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
21091310-015	NB- Hall 16	09/10/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON		
Send Repor	rables Required t Attn: reporting@				Perform Q.C Send	-	nvoicing@phasec	online.com		
Condition Upon Re										
Comments:										
	ed By: OVENTO	i	1	 Гіте:	Samples Received by	Grenert-Fischer But	t Dunut - Fix	uchen 9/14/2		
Samples Relinquish	ed By:	Date :		Time : ZReport	Samples Received By: Reference 1 Generated 21-SEP-7	21.08:08				
amples Relinquish	ed By:	Date:		Time:	Reference:1 Generated:21-SEP-2 Samples Received By:					



Case Narrative

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21091310

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.

SGS	GALSO	New Client? Report To*: Phase Separation Science Invoice To*: 6630 Baltimore National Pike Client Account No.*: Baltimore, MD 21228							[⁻] o*∶ <u>Phase</u> §	ase Separation Science					
888-432-LABS (5227) Co Email Res			Phone No.*: Cell No.: Email Results to: Email address:	Amber Co	onfer	ne.com		Phone No.: 410-747-8770 Email: invoicing@phaseonline.com P.O. No.: ODC 4920002-001 Credit Card: Card on File Call for Credit Card Info.							
Need Results By:	(surcharge)	1	ĺ	√ Samples	submitted usi	ng the FreePumpLoan™	⁴ Program	Samples s	ubmitted using t	he FreeSamplingBado	oc TM Program	-			
☑ Standard	0%	Site Name : Naon	ame : Naomi Brooks												
4 Business Days	35%	Comments :				oject. AOFO IAQ ti	251119 - 49	20002 Samp	oled by: Karl F	ord					
3 Business Days	50%														
2 Business Days	75%														
Next Day by 6pm	100%	List description of in-	ist description of industry or Process/interferences present in sampling area : State samples were Please indicate who												
Next Day by Noon	150%	Public grade	school				collected in		OSHA PEL	vhich OEL this data wi	III be used fo Cal Os				
Same Day	200%	g.uuo					VA		MSHA	Other (specify):	ou o	2117			
Sample Identification* (Maxmium of 20 Characters) Date Sampled Collection Medium				m Sar	ple Volume nple Time nple Area*	Sample Units*: L, ml,min,in2,cm2,ft2	2 Analysis Requested*			Method Reference^	Process (e.g	Chromium g., welding			
NB - Class 28		09/10/21 Sm Charcoal tubes / 226-01 45.2				L	4-Phenylcy	clohevene			plating, pair	nting, etc.)*			
NB - Hall 25		09/10/21	Sm Charcoal tubes / 226-01 44.6				 			mod. NIOSH 1501	 				
NB - Cafe		09/10/21	Sm Charcoal tubes / 226	6-01 44.2			4-Phenylcy			mod. NIOSH 1501					
NB - Gym		09/10/21	Sm Charcoal tubes / 226			1	4-Phenylcyclohexene			mod. NIOSH 1501					
NB - Class 24		09/10/21	Sm Charcoal tubes / 226	10.0		L.	4-Phenylcyclohexene			mod. NIOSH 1501					
NB - Class 21		09/10/21					4-Phenylcyclohexene			mod. NIOSH 1501					
NB - Class 18		09/10/21	Sm Charcoal tubes / 226				4-Phenylcy	clohexene		mod. NIOSH 1501					
NB - Entrance			Sm Charcoal tubes / 226			L	4-Phenylcyclohexene			mod. NIOSH 1501		-			
NB - Media Center		09/10/21	Sm Charcoal tubes / 226			L	4-Phenylcyclohexene			mod. NIOSH 1501					
NB - Class 6		09/10/21	Sm Charcoal tubes / 226-			L	4-Phenylcyd	lohexene		mod. NIOSH 1501					
		09/10/21	Sm Charcoal tubes / 226-	01 43.4		L	4-Phenylcyc	clohexene		mod. NIOSH 1501					
NB - Class 1		09/10/21	Sm Charcoal tubes / 226-			L	4-Phenylcyc	lohexene		mod. NIOSH 1501					
^Galson Laboratories will	subsititute our	routine/preferred meth	od if it does not mat	the metho	d listed on the	COC unless this box is	checked: 🗸	Use method(s) I	isted on COC						
For metals analysis: if req	uesting an analy	te with the option of a	lower LOQ, please in	dicate if the	lower LOQ is r	equired (only available	for certain ar	nalytes - see SAG)							
For crystalline silica: form	(s) of silica need	ed must be indicated (Quartz, Cristobalite,	and/or Tridy	mite)* :				•						
Chain of Custody		Date	Time			Print Name/	Signaturo	5.							
	nning Jackso			9/13/21	12:00	Received by:			gnatule	Date	3	Time			
Relinquished by:	Ted Kr	ons		113/2	1743	Received by:	a	very	(Dha	9/1/21	21 1	242			
		* Re	Sample quired fields, failu	es received re to comp	after 3pm wi	ill be considered as r lds may result in a d	next day's b	usiness	0-1		age 1 of				

Page 12 of 14

SGS GALSON New Client? Report To*: Phase Separation Science 6630 Baltimore National Pike												
GALSON New Client? Report To*: Phase Separation Science Phase Separation	nce											
Client Account No.*: Baltimore, MD 21228												
6601 Kirkville Rd												
East Syracuse, NY 13057 Phone No.* : 410-747-8770 Phone No.: 410-747-8770												
888-432-LABS (5227) Cell No. :												
www.sgsgalson.com F.O. No. : ODC 4920002-001												
Email address: reporting@phaseonline.com Credit Card : Card on File Call for Credit	t Card Info.											
Need Results By: (surcharge)	[™] Program											
Standard 0% Site Name: Naomi Brooks Project: ACPS IAQ testing - 4920002 Sampled by: Karl Ford												
4 Business Days 35% Comments:	nents:											
3 Business Days 50%												
2 Business Days 75%	e.											
Next Day by 6pm 100% List description of industry or Process/interferences present in sampling area : State samples were Next Day by Noon 150% Please indicate which OEL this data will be collected in (e.g., NY)												
Public grade school	Cal OSHA											
Sample Volume												
Maxmium of 20 Characters) Date Sampled Collection Medium 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.)*											
NB - Hall 8 09/10/21 Sm Charcoal tubes / 226-01 42.8 L 4-Phenylcyclohexene mod. NIOSH 1501												
NB - Class 11 09/10/21 sm Charcoal tubes / 226-01 42.6 L 4-Phenylcyclohexene mod. NIOSH 1501												
NB - Class 13 09/10/21 sm Charcoal tubes / 226-01 42.4 L 4-Phenylcyclohexene mod. NIOSH 1501												
NB - Hall 16 09/10/21 Sm Charcoal tubes / 226-01 42.0 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	T:											
Relinquished by: Channing Jackson 09/13/21 12:00 Received by:	Time											
Samples received after 3pm will be considered as next day's business * Required fields, failure to complete these fields may result in a delay in your samples being processed. Page 2 of 2												



Sample Receipt Checklist

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

Project Name: ACPS IAQ Testing PSS Project No.: 21091310

Client Name Total Environmental Concepts - Lorto Received By Amber Confer

Delivered By Client

Tracking No Not Applicable

Logged In By Amber Confer

Shipping Container(s)

No. of Coolers 0

Ice N/A

Custody Seal(s) Intact? N/A Temp (deg C)

Seal(s) Signed / Dated? N/A Temp Blank Present No

Documentation Sampler Name <u>Karl Ford</u>

COC agrees with sample labels?

Yes

MD DW Cert. No. N/A

Chain of Custody Yes

Sample Container Custody Seal(s) Intact? Not Applicable

Appropriate for Specified Analysis? Yes Seal(s) Signed / Dated Not Applicable

Intact? Yes

Labeled and Labels Legible? Yes

Holding Time Total No. of Samples Received 15

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

Preservation

Total Metals (pH<2)N/A Dissolved Metals, filtered within 15 minutes of collection (pH<2)N/A Orthophosphorus, filtered within 15 minutes of collection N/A Cyanides (pH>12)N/A Sulfide (pH>9)N/A TOC, DOC (field filtered), COD, Phenols N/A (pH<2)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:	Jules I loofer	Date: 09/13/2021
	Amber Confer	

PM Review and Approval:

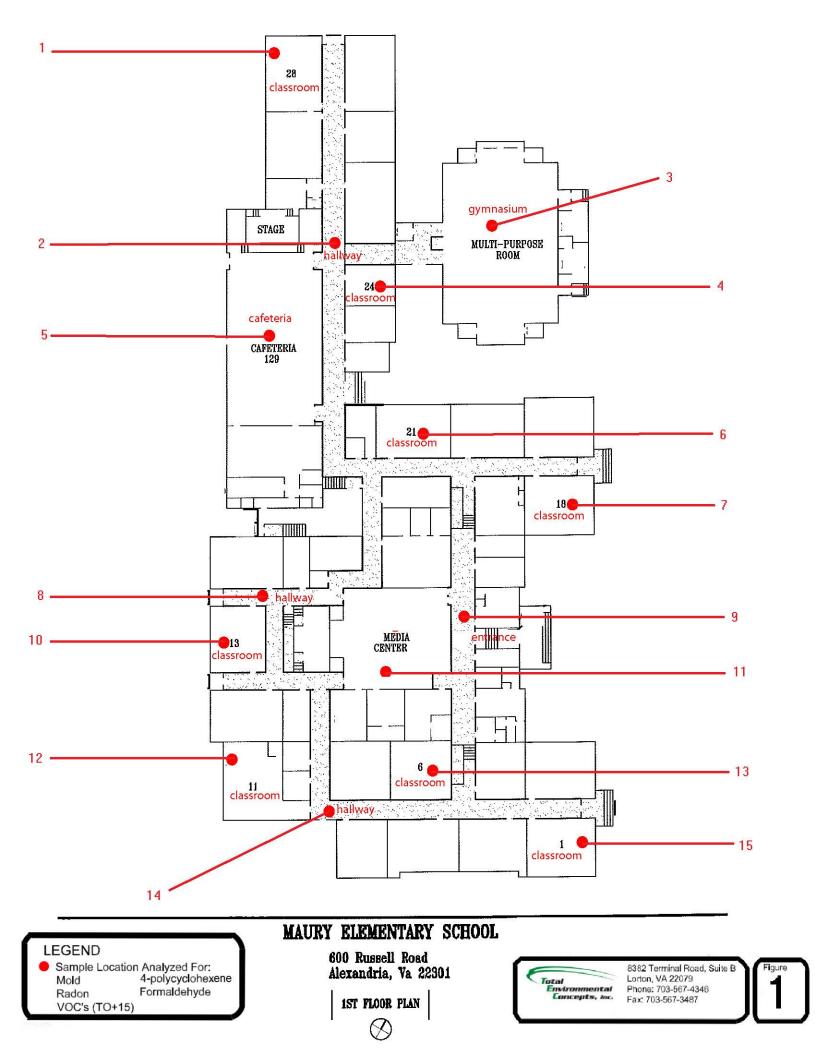
Lynn Jackson
Page 14 of 14

Date: 09/13/2021

SGS		New Client?	Report To* :					Invoice To	o* :				
343	ALSOI												
		Client Account	NO.":										
6601 Kirkvi			 Phone No * :					Phone N					
Tel: (315) 4	use, NY 13057 32-5227		Cell No :					Fms	o.:				
888-43	2-LABS (5227)							PO No	o.:				
www.sgsga	alson.com	•						Credit Car	d : Card on Fi	le \Box	Call for Cred	dit Card lı	afo
									ar Cara on Ti			iii cara ii	110.
Need Results By:	(surcharge)]		Samples subn	g the FreePumpLoan [™]	Program	Samples s	ubmitted using th	e FreeSam	plingBadge	s [™] Progr <i>a</i>	am	
Standard	0%	Site Name :			Pro	ject :		Samp	oled by :				
4 Business Days	35%	Comments:											
3 Business Days	50%												
2 Business Days	75%												
Next Day by 6pm	100%	List description of ind	ustry or Process/interfer	ences presen	t in sampli	ing area :	State samples we		Please indicate w				
Next Day by Noon	150%						collected in (e.g., I	NY)	OSHA PEL	_		Cal (OSHA
Same Day	200%								MSHA	Other (specify):		
	Sample Identification* (Maxmium of 20 Characters) Date Sampled Collection			Sample Volume Sample Time Sample Area* Sample Units*: L, ml,min,in2,cm2,ft2			Anal	lysis Reque	ested*	Method F	Reference^	Process (nt Chromium e.g., welding painting, etc.)*
^Galson Laboratories wil	II subsititute ou	r routine/preferred meth	I nod if it does not match	the method li	sted on the	e COC unless this box is	s checked: Use	e method(s) listed on COC				
For metals analysis: if re-	questing an ana	lyte with the option of a	lower LOQ, please indi	cate if the low	ver LOQ is	required (only availabl	e for certain analyte	es - see SA	G):				
For crystalline silica: forr	n(s) of silica nee	eded must be indicated	(Quartz, Cristobalite, an	d/or Tridymit	e)*:								
Chain of Custody	Pr	int Name/Signature		Date	Time		F	Print Nam	e/Signature		Da	te	Time
Relinquished by :		-				Received by :							
Relinquished by:						Received by :							
		* R	Samples equired fields, failure			will be considered as elds may result in a			ng processed.		P	'age	of

SGS		New Client?	Report To* :					Invoice To	o* :				
343	ALSOI												
		Client Account	NO.":										
6601 Kirkvi			 Phone No * :					Phone N					
Tel: (315) 4	use, NY 13057 32-5227		Cell No :					Fms	o.:				
888-43	2-LABS (5227)							PO No	o.:				
www.sgsga	alson.com	•						Credit Car	d : Card on Fi	le \Box	Call for Cred	dit Card lı	afo
									ar Cara on Ti			iii cara ii	110.
Need Results By:	(surcharge)]		Samples subn	g the FreePumpLoan [™]	Program	Samples s	ubmitted using th	e FreeSam	plingBadge	s [™] Progr <i>a</i>	am	
Standard	0%	Site Name :			Pro	ject :		Samp	oled by :				
4 Business Days	35%	Comments:											
3 Business Days	50%												
2 Business Days	75%												
Next Day by 6pm	100%	List description of ind	ustry or Process/interfer	ences presen	t in sampli	ing area :	State samples we		Please indicate w				
Next Day by Noon	150%						collected in (e.g., I	NY)	OSHA PEL	_		Cal (OSHA
Same Day	200%								MSHA	Other (specify):		
	Sample Identification* (Maxmium of 20 Characters) Date Sampled Collection			Sample Volume Sample Time Sample Area* Sample Units*: L, ml,min,in2,cm2,ft2			Anal	lysis Reque	ested*	Method F	Reference^	Process (nt Chromium e.g., welding painting, etc.)*
^Galson Laboratories wil	II subsititute ou	r routine/preferred meth	I nod if it does not match	the method li	sted on the	e COC unless this box is	s checked: Use	e method(s) listed on COC				
For metals analysis: if re-	questing an ana	lyte with the option of a	lower LOQ, please indi	cate if the low	ver LOQ is	required (only availabl	e for certain analyte	es - see SA	G):				
For crystalline silica: forr	n(s) of silica nee	eded must be indicated	(Quartz, Cristobalite, an	d/or Tridymit	e)*:								
Chain of Custody	Pr	int Name/Signature		Date	Time		F	Print Nam	e/Signature		Da	te	Time
Relinquished by :		-				Received by :							
Relinquished by:						Received by :							
		* R	Samples equired fields, failure			will be considered as elds may result in a			ng processed.		P	'age	of









Naomi Brooks, Library



Naomi Brooks, Cafetorium



Naomi Brooks, Hallway



Naomi Brooks, Classroom



Naomi Brooks, Gym



Naomi Brooks, Lobby