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# **Indoor Air Quality Assessment Report**

at

# **ACPS Central Offices – Satellite Campus**

1340 Braddock Road, Alexandria, VA 22314



#### Report Prepared for:

John Contreras

Alexandria City Public Schools

2601 Cameron Mills Rd, Alexandria, VA 22302 Dated: September 29, 2021

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#### **APPENDICES**

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Appendix C: VOCs (TO+15) Analytical Results

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**Appendix E:** 4-PCH Analytical Results

**Appendix F:** Sampling Locations

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#### ABBREVIATIONS AND ACRONYMS

**AHU** Air-Handling Unit

**AIHA** American Industrial Hygiene Association

**ASHRAE** American Society of Heating, Refrigerating and Air-Conditioning

Engineers

**ASTM** American Society for Testing and Materials

CO Carbon Monoxide CO2 Carbon Dioxide

**EMLAP** Environmental Microbiology Laboratory Accreditation Program

**HVAC** Heating, Ventilating, And Air-Conditioning

IAQ Indoor Air Quality

NIST National Institute for Standards and 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 (DM)
- Jefferson-Houston Elementary School (JH)
- Ferdinand T. Day Elementary School (FD)
- Patrick Henry Elementary School (PH)
- Mount Vernon Community School (MV)

This IAQ assessment was conducted at AC Satellite Campus, Central Offices on Friday, August 20, 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. Only five (5) sampling locations were pervided for this location. 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

#### <u>Summary of findings and recommendations during this limited IAQ investigation:</u>

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

#### **Findings:**

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

#### Recommendations:

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

None of the results from the five sampling locations at ACPS Satellite Campus 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 20, 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.

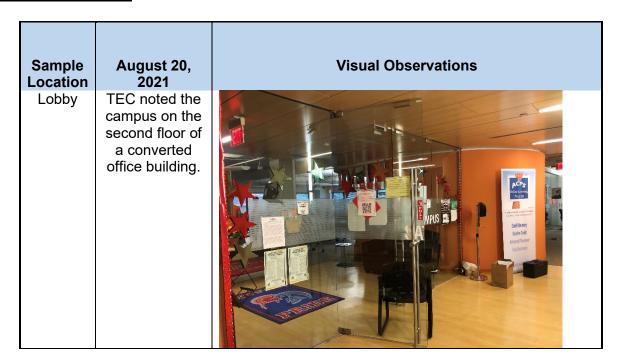


The temperature and relative humidity were taken with the AcuRite Digital Indoor Temperature and Humidity Monitor in the lobby of each school. Temperature and relative humidity readings can be found in Section 5, Mold Sampling Results, below.

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



Cafeteria	The student cafeteria of ACPS Satellite Campus.	
230-1A	Room 230-1A of ACPS Satellite Campus.	
210-4A	Room 210-4A of ACPS Satellite Campus.	TOGETHER  TOGETHER

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

None of the results from the five sampling locations at ACPS Satellite Campus were indicative of mold issues.

Mold analytical results can be found in Appendix A.

#### 6. Radon Gas Sampling Results

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

#### 7. TO+15 (VOC) Sampling Results

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

#### 8. Formaldehyde Gas Sampling Results

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

#### 9. 4-PCH Sampling Results

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

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

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

Table 1

Multi-Gas Detector Readings												
Location	VOC	СО	OXYGEN	H2S								
Lobby	0.0	0.0	20.9	0.0								
230-1A	0.0	0.0	20.9	0.0								
Cafeteria	0.0	0.0	20.9	0.0								
Satellite Campus	0.0	0.0	20.9	0.0								
210-4A	0.0	0.0	20.9	0.0								

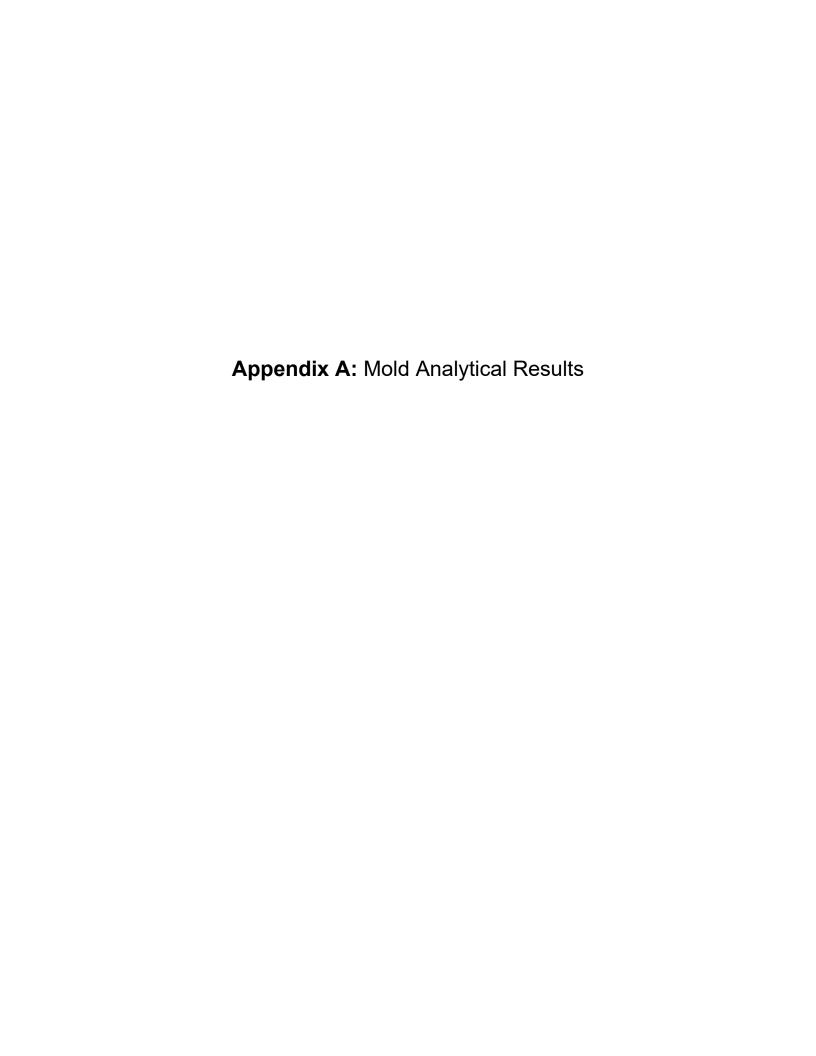
Table 2

Results of Analytes by Location												
Location	Radon	М	old	TO+15	4PCH	Formaldehyde						
		AVG: 81 F	AVG: 49%	VOCs								
Lobby	< 4 pCi/L	Spore Cou	ınt Normal	< RSL	< 6.5 ug/m3	< RSL						
230-1A	< 4 pCi/L	Spore Cou	ınt Normal	< RSL	< 6.5 ug/m3	< RSL						
Cafeteria	< 4 pCi/L	Spore Cou	unt Normal	< RSL	< 6.5 ug/m3	< RSL						
Satellite Campus	< 4 pCi/L	Spore Cou	unt Normal	< RSL	< 6.5 ug/m3	< RSL						
210-4A	< 4 pCi/L	Spore Cou	ınt Normal	< RSL	< 6.5 ug/m3	< RSL						

<sup>\*</sup>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

ASPC Central Office

Collected: August 20, 2021 Received: August 23, 2021 Reported: August 23, 2021 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 6 samples by FedEx in good condition for this project on August 23rd, 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



phen N. Hoyes

Lab ID: #188863



DPH License: #PH-0198

#21031192

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

Spore Trap SOP - HMC#101

Sample Number	1	CO431	18610	2	CO431	8608	3 CO4318607			4	CO431	18613		
Sample Name		CO Lobby		CO S	atellite Cam	pus		CO 210-4A			CO 230-1A			
Sample Volume		75.00 liter			75.00 liter			75.00 liter			75.00 liter			
Reporting Limit		13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>		13 spores/m <sup>3</sup>				
Background		2			2			2		2				
Fragments		ND			13/m <sup>3</sup>			ND			ND			
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total		
Alternaria														
Ascospores	2	27	66.7%	1	13	100.0%	2	27	66.7%	1	13	50.0%		
Aspergillus Penicillium														
Basidiospores														
Bipolaris Drechslera														
Chaetomium														
Cladosporium										1	13	50.0%		
Curvularia														
Epicoccum														
Fusarium														
Memnoniella														
Myxomycetes	1	13	33.3%				1	13	33.3%					
Pithomyces														
Stachybotrys														
Stemphylium														
Torula														
Ulocladium														
Total	3	40	100%	1	13	100%	3	40	100%	2	26	100%		

HAYES
MICROBIAL CONSULTING

Water Damage Indicator

Collected: Aug 20, 2021

Project Analyst:

Ramesh Poluri, PhD

Common Allergen

Received: Aug 23, 2021

Reported: Aug 23, 2021

Significantly Higher than Baseline

Date:

Slightly Higher than Baseline

08 - 23 - 2021

Reviewed By:

Steve Hayes, BSMT

Date:

Ratio Abnormality

08 - 23 - 2021

#21031192

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

Spore Trap SOP - HMC#101

Sample Number	5	CP431	8606	6	CO43	18603				
Sample Name	C	O Cafeteria		C	O - Outside	•				
Sample Volume		75.00 liter			75.00 liter					
Reporting Limit		13 spores/m <sup>3</sup>			13 spores/m <sup>3</sup>					
Background		2			2					
Fragments		ND			13/m <sup>3</sup>					
Tragments		ND			10/111					
Organism	Raw Count	Count / m <sup>3</sup>	% of Total	Raw Count	Count / m <sup>3</sup>	% of Total				
Alternaria										
Ascospores	2	27	66.7%	192	2560	67.4%				
Aspergillus Penicillium				3	40	1.1%				
Basidiospores				88	1173	30.9%				
Bipolaris Drechslera										
Chaetomium										
Cladosporium	1	13	33.3%	2	27	<1%				
Curvularia										
Epicoccum										
Fusarium										
Memnoniella										
Myxomycetes										
Pithomyces										
Stachybotrys										
Stemphylium										
Torula										
Ulocladium										
Total	3	40	100%	285	3800	100%				
Water Damage Indicato	Water Damage Indicator Common Allergen				Slightly Higher	than Baseline	Significantly Hig	her than Baseline	Ratio	Abnormality

Collected: Aug 20, 2021

Project Analyst:

Ramesh Poluri, PhD

Received: Aug 23, 2021

Reviewed By:

08 - 23 - 2021

Date:

Reported: Aug 23, 2021

Steve Hayes, BSMT

Date:

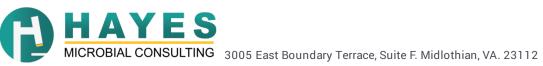
08 - 23 - 2021

#21031192

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# **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:
	<ul> <li>NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD)</li> <li>1: &lt;5% of field occluded. No spores will be uncountable.</li> <li>2: 5-25% of field occluded.</li> <li>3: 25-75% of field occluded.</li> <li>4: 75-90% of field occluded.</li> <li>5: &gt;90% of field occluded. Suggested recollection of sample.</li> </ul>
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	
Ratio Abnormality	Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoo 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.** 

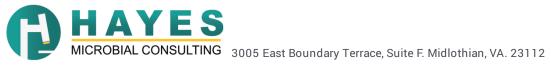
**ASPC Central Office** 

#21031192

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

## **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.
Myxomycetes	Habitat:	Found on decaying plant material and as a plant pathogen.
MINAUIIINGELES		



_	-		200	100																
											c04318603	CO 4318606	CO 4318613	C04318607	C04318608	CO4318610	Sample 8		Concepts,	Total
										Coolong Sidnik	co nuterio Blant	CO Calotonia	CO230-1A	CO 210-4A	Cosatelite Campus	C010663	Location/ room		inc.	1
									-	<						WIOI	Flow Pate			
			The second second							20.11	1	نا	2 0			10:00		Address	Placement Date	Placement Tech
										11:02	10.45	10:42	_	1	0.00	Pump Start Time			8/20/21	5601
										11:09	10:12	10:49	10:32	10:10	10.01	-			Sample Type Email	
																Comments		300 1001.	30100:	
											11.02 11:09	11:02 11:09 11:09	CO CORFERENCE CO CONTRIBE BLANK  10:45 10:45 10:45 10:45 10:45 10:45 10:42 11:02 11:02 11:02	10230-14	CO210-4A 10:24 10:45 10:42 10:49 10:45 10:45 10:49 10:45 10:45 10:49 10:45 10:	COSAGENTE COMPUS  10	COLO663	COLOBOR   10 1/M   10:00   1	COLOBBY 10/1/M 10/00 10/	COLOOLO   COLO

Appendix B: Radon Analytical Results

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

Result: < 0.3 pCi/lKit #: 9723816

Location: Lobby

Ac Satellite Campus

Analysis Note:

Analyzed: 2021-08-25 at 10:00 am

Started: 2021-08-20 at 10:00 am

Ended: 2021-08-24 at 2:00 pm

Hours/MST%: 100 hours 10.3% 70°F

Kit #: 9723823 Result: < 0.3 pCi/l

Location: 230-1A

Ac Satellite Campus

Analysis Note:

Analyzed: 2021-08-25 at 10:00 am

Started: 2021-08-20 at 11:00 am

Ended: 2021-08-24 at 2:00 pm

Hours/MST%: 99 hours 10.9% 70°F

Kit #: 9723824 Result: < 0.3 pCi/l

Location: 230-IA D

Ac Satellite Campus

Analysis Note:

Analyzed: 2021-08-25 at 10:00 am

Started: 2021-08-20 at 11:00 am

Ended: 2021-08-24 at 2:00 pm

Hours/MST%: 99 hours 10.9% 70°F

Kit #: 9723827 Result: < 0.3 pCi/l

Location: Satelite campus mark

Ac Satellite Campus

Analysis Note:

Analyzed: 2021-08-25 at 10:00 am

Started: 2021-08-20 at 10:00 am

Ended: 2021-08-24 at 2:00 pm

Hours/MST%: 100 hours 10.3% 70°F

Kit #: 9723832 Result: < 0.3 pCi/l

Location: 210 - 4A

Ac Satellite Campus

Analysis Note:

Analyzed: 2021-08-25 at 10:00 am

Started: 2021-08-20 at 10:00 am

Ended: 2021-08-24 at 2:00 pm

Hours/MST%: 100 hours 10.2% 70°F

Kit #: 9723833 Result: ????

Location: Cafe-B

Central Office Blank

Analysis Note: IB2

Analyzed: 2021-08-25 at 10:00 am

Started: 2021-08-20 at 11:00 am

Ended: 2021-08-20 at 11:00 am

Hours/MST%: 0 hours 22.3% 70°F

Kit #: 9723834 Result: < 0.3 pCi/l

Location: cafe

Ac Satellite Campus

Analysis Note:

Analyzed: 2021-08-25 at 10:00 am

Started: 2021-08-20 at 10:00 am

Ended: 2021-08-24 at 2:00 pm

Hours/MST%: 100 hours 10.7% 70°F

ACPS Central Office

									- White and the second				CD9723833B	107723833	109723824D	C09725825	C09723832	109723827	C09123816	Samela 8	concepts,	Environmen	Total	1
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													4	4	A.	4	٧	×	4	HVAC Y/N				
	100											-	5	N	4	4	4	T	2	Window Y/N			Sample Madia	_
						1							2	N	7	N	7	N	N	Fan Y/N			Charles .	Mobins
					Name of the last			THE RESERVE TO SERVE					10:50	10:50	10:45	10:45	10:31	10:30	10:00	Time in	No. of Lot			
																		32	200	Time out		Email	Pickup Date	
																				Comment				

**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: A.C. Satellite PSS Project No.: 21082410

August 31, 2021

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

Reference: PSS Project No: 21082410

Project Name: A.C. Satellite Project Location: Alexandria, VA



#### 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) 21082410.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on September 28, 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: A.C. Satellite PSS Project No.: 21082410

The following samples were received under chain of custody by Phase Separation Science (PSS) on 08/24/2021 at 03:40 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected	
21082410-001	CO-Elevator Lobby	AIR	08/20/21 16:14	
21082410-002	CO-Satellite Campus	AIR	08/20/21 16:05	
21082410-003	CO-210-4A Class	AIR	08/20/21 16:03	
21082410-004	CO-230-1A Office	AIR	08/20/21 16:08	
21082410-005	CO-Cafe	AIR	08/20/21 16:10	

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.

#### **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.
- 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





1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com VELAP ID 460040

31 August 2021

Amber Confer

Phase Separation Science, Inc.

6630 Baltimore National Pike, Route 40 West

Baltimore, MD 21228

RE: AC SATELLITE

Enclosed are the results of analyses for samples received by the laboratory on 08/25/21 11:10.

Maryland Spectral Services, Inc. is a TNI 2009 Standard accredited laboratory and as such, all analyses performed at Maryland Spectral Services included in this report are 2009 TNI certified except as indicated at the end of this report. Please visit our website at www.mdspectral.com for a complete listing of our TNI 2009 Standard accreditations.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sam Hamner

Senior Chemist

MHanner Jar



**Project: AC SATELLITE** 

# **Analytical Results**

nelso IN ACCORDANCE

1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

**Reported:** 08/31/21 14:22

Project Number:	[none]
Project Manager:	Amber Confer

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CO-ELEVATOR LOBBY	21082410-001	1082527-01	Vapor	08/20/21 16:14	08/25/21 11:10
CO-SATELLITE CAMPUS	21082410-002	1082527-02	Vapor	08/20/21 16:05	08/25/21 11:10
CO-210-4A CLASS	21082410-003	1082527-03	Vapor	08/20/21 16:03	08/25/21 11:10
CO-230-1A OFFICE	21082410-004	1082527-04	Vapor	08/20/21 16:08	08/25/21 11:10
CO-CAFE	21082410-005	1082527-05	Vapor	08/20/21 16:10	08/25/21 11:10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sam Hamner, Senior Chemist



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1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

**Reported:** 08/31/21 14:22

Project: AC SATELLITE

Project Number: [none]
Project Manager: Amber Confer

#### CO-ELEVATOR LOBBY 21082410-001 1082527-01 (Vapor) Sample Date: 08/20/21

				Sample Date: 0	0/20/21				
				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-1	15 (GC/MS) Pi	repared b	y TO-15 F	rep					
Acetone	20.5		$ug/m^3$	2.40	2.40	1	08/25/21	08/25/21 23:04	WB
Benzene	0.32	J	$ug/m^3$	0.64	0.16	1	08/25/21	08/25/21 23:04	WB
Benzyl chloride	ND		$ug/m^3$	1.00	0.25	1	08/25/21	08/25/21 23:04	WB
Bromodichloromethane	ND		$ug/m^3$	1.30	0.33	1	08/25/21	08/25/21 23:04	WB
Bromoform	ND		$ug/m^3$	2.10	0.53	1	08/25/21	08/25/21 23:04	WB
Bromomethane	ND		$ug/m^3$	0.78	0.20	1	08/25/21	08/25/21 23:04	WB
1,3-Butadiene	ND		$ug/m^3$	0.44	0.44	1	08/25/21	08/25/21 23:04	WB
Carbon disulfide	ND		$ug/m^3$	1.56	1.56	1	08/25/21	08/25/21 23:04	WB
Carbon tetrachloride	0.38	J	ug/m³	1.30	0.33	1	08/25/21	08/25/21 23:04	WB
Chlorobenzene	ND		$ug/m^3$	0.92	0.23	1	08/25/21	08/25/21 23:04	WB
Chloroethane	ND		ug/m³	0.53	0.27	1	08/25/21	08/25/21 23:04	WB
Chloroform	0.68	J	$ug/m^3$	0.97	0.24	1	08/25/21	08/25/21 23:04	WB
Chloromethane	1.38		$ug/m^3$	0.41	0.10	1	08/25/21	08/25/21 23:04	WB
3-Chloropropene	ND		$ug/m^3$	0.63	0.16	1	08/25/21	08/25/21 23:04	WB
Cyclohexane	1.17		$ug/m^3$	0.69	0.17	1	08/25/21	08/25/21 23:04	WB
Dibromochloromethane	ND		$ug/m^3$	1.30	0.33	1	08/25/21	08/25/21 23:04	WB
1,2-Dibromoethane (EDB)	ND		$ug/m^3$	1.40	0.35	1	08/25/21	08/25/21 23:04	WB
1,2-Dichlorobenzene	ND		$ug/m^3$	1.20	0.30	1	08/25/21	08/25/21 23:04	WB
1,3-Dichlorobenzene	ND		$ug/m^3$	1.20	0.30	1	08/25/21	08/25/21 23:04	WB
1,4-Dichlorobenzene	ND		$ug/m^3$	1.20	0.30	1	08/25/21	08/25/21 23:04	WB
Dichlorodifluoromethane	2.97		$ug/m^3$	0.99	0.99	1	08/25/21	08/25/21 23:04	WB
1,1-Dichloroethane	ND		$ug/m^3$	0.81	0.20	1	08/25/21	08/25/21 23:04	WB
1,2-Dichloroethane	ND		$ug/m^3$	0.81	0.20	1	08/25/21	08/25/21 23:04	WB
1,1-Dichloroethene	ND		$ug/m^3$	0.79	0.20	1	08/25/21	08/25/21 23:04	WB
cis-1,2-Dichloroethene	ND		$ug/m^3$	0.79	0.20	1	08/25/21	08/25/21 23:04	WB
trans-1,2-Dichloroethene	ND		$ug/m^3$	0.79	0.20	1	08/25/21	08/25/21 23:04	WB
1,2-Dichloropropane	ND		ug/m³	0.92	0.23	1	08/25/21	08/25/21 23:04	WB
cis-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 23:04	WB
trans-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/25/21	08/25/21 23:04	WB
1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/25/21	08/25/21 23:04	WB
Ethyl acetate	ND		ug/m³	3.60	3.60	1	08/25/21	08/25/21 23:04	WB
Ethylbenzene	0.30	J	ug/m³	0.87	0.22	1	08/25/21	08/25/21 23:04	WB
4-Ethyltoluene	0.25	J	ug/m³	0.98	0.25	1	08/25/21	08/25/21 23:04	WB
Freon 113	0.54	J	ug/m³	1.50	0.38	1	08/25/21	08/25/21 23:04	WB

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sam Hamner, Senior Chemist

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report



1500 Caton Center Dr Suite G **Baltimore MD 21227** 410-247-7600 www.mdspectral.com

> Reported: 08/31/21 14:22

**Project: AC SATELLITE** 

Project Number: [none] Project Manager: Amber Confer

#### **CO-ELEVATOR LOBBY** 21082410-001 1082527-01 (Vapor) Sample Date: 08/20/21

			Reporting	Detection				
Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
C/MS) Pı	epared by	y TO-15 F	rep (continued)					
ND		ug/m³	1.40	1.40	1	08/25/21	08/25/21 23:04	WB
0.78	J	ug/m³	0.82	0.21	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	2.10	2.10	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	14.0	14.0	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	0.82	0.15	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	1.10	0.40	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	0.72	0.21	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	18.0	18.0	1	08/25/21	08/25/21 23:04	WB
1.18		ug/m³	0.59	0.34	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	0.82	0.82	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	1.10	0.70	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	0.34	0.34	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	0.98	0.40	1	08/25/21	08/25/21 23:04	WB
0.38	J	ug/m³	0.85	0.15	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	1.40	0.35	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	1.40	0.70	1	08/25/21	08/25/21 23:04	WB
0.29	J	ug/m³	0.59	0.15	1	08/25/21	08/25/21 23:04	WB
1.17		$ug/m^3$	0.75	0.35	1	08/25/21	08/25/21 23:04	WB
ND		$ug/m^3$	1.50	0.38	1	08/25/21	08/25/21 23:04	WB
ND		$ug/m^3$	1.10	0.28	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	1.10	0.28	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	1.10	0.28	1	08/25/21	08/25/21 23:04	WB
2.70		ug/m³	1.10	0.28	1	08/25/21	08/25/21 23:04	WB
0.29	J	$ug/m^3$	0.98	0.25	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	0.98	0.25	1	08/25/21	08/25/21 23:04	WB
0.33	J	$ug/m^3$	0.93	0.23	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	0.70	0.70	1	08/25/21	08/25/21 23:04	WB
ND		ug/m³	0.87	0.22	1	08/25/21	08/25/21 23:04	WB
ND		$ug/m^3$	0.51	0.13	1	08/25/21	08/25/21 23:04	WB
0.30	J	$ug/m^3$	0.87	0.22	1	08/25/21	08/25/21 23:04	WB
0.78	J	ug/m³	1.70	0.43	1	08/25/21	08/25/21 23:04	WB
	ND 0.78 ND	ND  ND  ND  ND  ND  ND  ND  ND  ND  ND	C/MS) Prepared by TO-15 F           ND         ug/m³           0.78         J         ug/m³           ND         ug/m³           ND <td>  ND</td> <td>C/MS) Prepared by TO-15 Prep (continued)           ND         ug/m³         1.40         1.40           0.78         J ug/m³         0.82         0.21           ND         ug/m³         2.10         2.10           ND         ug/m³         14.0         14.0           ND         ug/m³         14.0         14.0           ND         ug/m³         0.82         0.15           ND         ug/m³         0.82         0.15           ND         ug/m³         1.10         0.40           ND         ug/m³         0.72         0.21           ND         ug/m³         0.59         0.34           ND         ug/m³         0.82         0.82           ND         ug/m³         0.82         0.82           ND         ug/m³         0.82         0.82           ND         ug/m³         0.34         0.34           ND         ug/m³         0.34         0.34           ND         ug/m³         0.98         0.40           0.38         J ug/m³         0.85         0.15           ND         ug/m³         0.40         0.35           ND         <t< td=""><td>C/MS) Prepared by TO-15 Prep (continued)           ND         ug/m³         1.40         1.40         1           0.78         J         ug/m³         0.82         0.21         1           ND         ug/m³         2.10         2.10         1           ND         ug/m³         14.0         14.0         1           ND         ug/m³         1.40         14.0         1           ND         ug/m³         0.82         0.15         1           ND         ug/m³         0.82         0.15         1           ND         ug/m³         0.72         0.21         1           ND         ug/m³         18.0         18.0         1           1.18         ug/m³         0.59         0.34         1           ND         ug/m³         0.82         0.82         1           ND         ug/m³         0.82         0.82         1           ND         ug/m³         0.34         0.34         1           ND         ug/m³         0.34         0.34         1           ND         ug/m³         0.85         0.15         1           ND         ug/m³</td><td>C/MS) Prepared by TO-15 Prep (continued)           ND         ug/m²         1.40         1.40         1         08/25/21           0.78         J         ug/m²         0.82         0.21         1         08/25/21           ND         ug/m²         2.10         2.10         1         08/25/21           ND         ug/m³         14.0         14.0         1         08/25/21           ND         ug/m³         1.40         14.0         1         08/25/21           ND         ug/m³         1.10         0.40         1         08/25/21           ND         ug/m³         1.10         0.40         1         08/25/21           ND         ug/m³         1.80         18.0         1         08/25/21           ND         ug/m³         1.80         18.0         1         08/25/21           ND         ug/m³         0.82         0.82         1         08/25/21           ND         ug/m³         0.82         0.82         1         08/25/21           ND         ug/m³         0.14         0.34         1         08/25/21           ND         ug/m³         0.34         0.34         1</td><td>C/MS) Prepared by TO-15 Prep (continued)           ND         ug/m²         1.40         1.40         1         08/25/21         08/25/21         23.04           0.78         J         ug/m²         0.82         0.21         1         08/25/21         08/25/21         23.04           ND         ug/m²         2.10         2.10         1         08/25/21         08/25/21         23.04           ND         ug/m²         14.0         14.0         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.82         0.15         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.82         0.15         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.10         0.40         1         08/25/21         08/25/21         23.04           ND         ug/m²         1.80         18.0         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.59         0.34         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.10         0.82         0.82         1</td></t<></td>	ND	C/MS) Prepared by TO-15 Prep (continued)           ND         ug/m³         1.40         1.40           0.78         J ug/m³         0.82         0.21           ND         ug/m³         2.10         2.10           ND         ug/m³         14.0         14.0           ND         ug/m³         14.0         14.0           ND         ug/m³         0.82         0.15           ND         ug/m³         0.82         0.15           ND         ug/m³         1.10         0.40           ND         ug/m³         0.72         0.21           ND         ug/m³         0.59         0.34           ND         ug/m³         0.82         0.82           ND         ug/m³         0.82         0.82           ND         ug/m³         0.82         0.82           ND         ug/m³         0.34         0.34           ND         ug/m³         0.34         0.34           ND         ug/m³         0.98         0.40           0.38         J ug/m³         0.85         0.15           ND         ug/m³         0.40         0.35           ND <t< td=""><td>C/MS) Prepared by TO-15 Prep (continued)           ND         ug/m³         1.40         1.40         1           0.78         J         ug/m³         0.82         0.21         1           ND         ug/m³         2.10         2.10         1           ND         ug/m³         14.0         14.0         1           ND         ug/m³         1.40         14.0         1           ND         ug/m³         0.82         0.15         1           ND         ug/m³         0.82         0.15         1           ND         ug/m³         0.72         0.21         1           ND         ug/m³         18.0         18.0         1           1.18         ug/m³         0.59         0.34         1           ND         ug/m³         0.82         0.82         1           ND         ug/m³         0.82         0.82         1           ND         ug/m³         0.34         0.34         1           ND         ug/m³         0.34         0.34         1           ND         ug/m³         0.85         0.15         1           ND         ug/m³</td><td>C/MS) Prepared by TO-15 Prep (continued)           ND         ug/m²         1.40         1.40         1         08/25/21           0.78         J         ug/m²         0.82         0.21         1         08/25/21           ND         ug/m²         2.10         2.10         1         08/25/21           ND         ug/m³         14.0         14.0         1         08/25/21           ND         ug/m³         1.40         14.0         1         08/25/21           ND         ug/m³         1.10         0.40         1         08/25/21           ND         ug/m³         1.10         0.40         1         08/25/21           ND         ug/m³         1.80         18.0         1         08/25/21           ND         ug/m³         1.80         18.0         1         08/25/21           ND         ug/m³         0.82         0.82         1         08/25/21           ND         ug/m³         0.82         0.82         1         08/25/21           ND         ug/m³         0.14         0.34         1         08/25/21           ND         ug/m³         0.34         0.34         1</td><td>C/MS) Prepared by TO-15 Prep (continued)           ND         ug/m²         1.40         1.40         1         08/25/21         08/25/21         23.04           0.78         J         ug/m²         0.82         0.21         1         08/25/21         08/25/21         23.04           ND         ug/m²         2.10         2.10         1         08/25/21         08/25/21         23.04           ND         ug/m²         14.0         14.0         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.82         0.15         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.82         0.15         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.10         0.40         1         08/25/21         08/25/21         23.04           ND         ug/m²         1.80         18.0         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.59         0.34         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.10         0.82         0.82         1</td></t<>	C/MS) Prepared by TO-15 Prep (continued)           ND         ug/m³         1.40         1.40         1           0.78         J         ug/m³         0.82         0.21         1           ND         ug/m³         2.10         2.10         1           ND         ug/m³         14.0         14.0         1           ND         ug/m³         1.40         14.0         1           ND         ug/m³         0.82         0.15         1           ND         ug/m³         0.82         0.15         1           ND         ug/m³         0.72         0.21         1           ND         ug/m³         18.0         18.0         1           1.18         ug/m³         0.59         0.34         1           ND         ug/m³         0.82         0.82         1           ND         ug/m³         0.82         0.82         1           ND         ug/m³         0.34         0.34         1           ND         ug/m³         0.34         0.34         1           ND         ug/m³         0.85         0.15         1           ND         ug/m³	C/MS) Prepared by TO-15 Prep (continued)           ND         ug/m²         1.40         1.40         1         08/25/21           0.78         J         ug/m²         0.82         0.21         1         08/25/21           ND         ug/m²         2.10         2.10         1         08/25/21           ND         ug/m³         14.0         14.0         1         08/25/21           ND         ug/m³         1.40         14.0         1         08/25/21           ND         ug/m³         1.10         0.40         1         08/25/21           ND         ug/m³         1.10         0.40         1         08/25/21           ND         ug/m³         1.80         18.0         1         08/25/21           ND         ug/m³         1.80         18.0         1         08/25/21           ND         ug/m³         0.82         0.82         1         08/25/21           ND         ug/m³         0.82         0.82         1         08/25/21           ND         ug/m³         0.14         0.34         1         08/25/21           ND         ug/m³         0.34         0.34         1	C/MS) Prepared by TO-15 Prep (continued)           ND         ug/m²         1.40         1.40         1         08/25/21         08/25/21         23.04           0.78         J         ug/m²         0.82         0.21         1         08/25/21         08/25/21         23.04           ND         ug/m²         2.10         2.10         1         08/25/21         08/25/21         23.04           ND         ug/m²         14.0         14.0         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.82         0.15         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.82         0.15         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.10         0.40         1         08/25/21         08/25/21         23.04           ND         ug/m²         1.80         18.0         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.59         0.34         1         08/25/21         08/25/21         23.04           ND         ug/m²         0.10         0.82         0.82         1

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**Reported:** 08/31/21 14:22

Project: AC SATELLITE
Project Number: [none]

Project Manager: Amber Confer

#### CO-SATELLITE CAMPUS 21082410-002 1082527-02 (Vapor) Sample Date: 08/20/21

				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (Ge	<u>C/M</u> S) Pi	repared b	<u>y TO</u> -15 F		`			<u> </u>	
Acetone	20.1		ug/m³	2.40	2.40	1	08/26/21	08/26/21 00:05	WB
Benzene	0.26	J	ug/m³	0.64	0.16	1	08/26/21	08/26/21 00:05	WB
Benzyl chloride	ND		$ug/m^3$	1.00	0.25	1	08/26/21	08/26/21 00:05	WB
Bromodichloromethane	ND		$ug/m^3$	1.30	0.33	1	08/26/21	08/26/21 00:05	WB
Bromoform	ND		$ug/m^3$	2.10	0.53	1	08/26/21	08/26/21 00:05	WB
Bromomethane	ND		$ug/m^3$	0.78	0.20	1	08/26/21	08/26/21 00:05	WB
1,3-Butadiene	ND		$ug/m^3$	0.44	0.44	1	08/26/21	08/26/21 00:05	WB
Carbon disulfide	ND		$ug/m^3$	1.56	1.56	1	08/26/21	08/26/21 00:05	WB
Carbon tetrachloride	ND		$ug/m^3$	1.30	0.33	1	08/26/21	08/26/21 00:05	WB
Chlorobenzene	ND		$ug/m^3$	0.92	0.23	1	08/26/21	08/26/21 00:05	WB
Chloroethane	ND		$ug/m^3$	0.53	0.27	1	08/26/21	08/26/21 00:05	WB
Chloroform	ND		$ug/m^3$	0.97	0.24	1	08/26/21	08/26/21 00:05	WB
Chloromethane	1.01		$ug/m^3$	0.41	0.10	1	08/26/21	08/26/21 00:05	WB
3-Chloropropene	ND		$ug/m^3$	0.63	0.16	1	08/26/21	08/26/21 00:05	WB
Cyclohexane	0.59	J	$ug/m^3$	0.69	0.17	1	08/26/21	08/26/21 00:05	WB
Dibromochloromethane	ND		$ug/m^3$	1.30	0.33	1	08/26/21	08/26/21 00:05	WB
1,2-Dibromoethane (EDB)	ND		$ug/m^3$	1.40	0.35	1	08/26/21	08/26/21 00:05	WB
1,2-Dichlorobenzene	ND		$ug/m^3$	1.20	0.30	1	08/26/21	08/26/21 00:05	WB
1,3-Dichlorobenzene	ND		$ug/m^3$	1.20	0.30	1	08/26/21	08/26/21 00:05	WB
1,4-Dichlorobenzene	ND		$ug/m^3$	1.20	0.30	1	08/26/21	08/26/21 00:05	WB
Dichlorodifluoromethane	2.67		ug/m³	0.99	0.99	1	08/26/21	08/26/21 00:05	WB
1,1-Dichloroethane	ND		$ug/m^3$	0.81	0.20	1	08/26/21	08/26/21 00:05	WB
1,2-Dichloroethane	ND		$ug/m^3$	0.81	0.20	1	08/26/21	08/26/21 00:05	WB
1,1-Dichloroethene	ND		$ug/m^3$	0.79	0.20	1	08/26/21	08/26/21 00:05	WB
cis-1,2-Dichloroethene	ND		$ug/m^3$	0.79	0.20	1	08/26/21	08/26/21 00:05	WB
trans-1,2-Dichloroethene	ND		$ug/m^3$	0.79	0.20	1	08/26/21	08/26/21 00:05	WB
1,2-Dichloropropane	ND		$ug/m^3$	0.92	0.23	1	08/26/21	08/26/21 00:05	WB
cis-1,3-Dichloropropene	ND		$ug/m^3$	0.91	0.23	1	08/26/21	08/26/21 00:05	WB
trans-1,3-Dichloropropene	ND		$ug/m^3$	0.91	0.23	1	08/26/21	08/26/21 00:05	WB
1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/26/21	08/26/21 00:05	WB
Ethyl acetate	ND		ug/m³	3.60	3.60	1	08/26/21	08/26/21 00:05	WB
Ethylbenzene	0.26	J	ug/m³	0.87	0.22	1	08/26/21	08/26/21 00:05	WB
4-Ethyltoluene	ND		ug/m³	0.98	0.25	1	08/26/21	08/26/21 00:05	WB
Freon 113	0.46	J	ug/m³	1.50	0.38	1	08/26/21	08/26/21 00:05	WB

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**Reported:** 08/31/21 14:22

**Project: AC SATELLITE** 

Project Number: [none]
Project Manager: Amber Confer

#### CO-SATELLITE CAMPUS 21082410-002 1082527-02 (Vapor) Sample Date: 08/20/21

				Sample Date: 0	0/20/21				
				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (C	GC/MS) Pi	repared b	y TO-15 I	Prep (continued)					
Freon 114	ND		ug/m³	1.40	1.40	1	08/26/21	08/26/21 00:05	WB
n-Heptane	0.53	J	ug/m³	0.82	0.21	1	08/26/21	08/26/21 00:05	WB
Hexachlorobutadiene	ND		ug/m³	2.10	2.10	1	08/26/21	08/26/21 00:05	WB
Hexane	ND		ug/m³	14.0	14.0	1	08/26/21	08/26/21 00:05	WB
2-Hexanone	ND		ug/m³	0.82	0.15	1	08/26/21	08/26/21 00:05	WB
Isopropylbenzene (Cumene)	ND		ug/m³	1.10	0.40	1	08/26/21	08/26/21 00:05	WB
Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.72	0.21	1	08/26/21	08/26/21 00:05	WB
Methylene chloride	18.1	L	ug/m³	18.0	18.0	1	08/26/21	08/26/21 00:05	WB
Methyl ethyl ketone (2-Butanone)	1.27		$ug/m^3$	0.59	0.34	1	08/26/21	08/26/21 00:05	WB
Methyl isobutyl ketone	ND		ug/m³	0.82	0.82	1	08/26/21	08/26/21 00:05	WB
Naphthalene	ND		$ug/m^3$	1.10	0.70	1	08/26/21	08/26/21 00:05	WB
Propene	ND		$ug/m^3$	0.34	0.34	1	08/26/21	08/26/21 00:05	WB
n-Propylbenzene	ND		$ug/m^3$	0.98	0.40	1	08/26/21	08/26/21 00:05	WB
Styrene	0.34	J	ug/m³	0.85	0.15	1	08/26/21	08/26/21 00:05	WB
,1,2,2-Tetrachloroethane	ND		$ug/m^3$	1.40	0.35	1	08/26/21	08/26/21 00:05	WB
Tetrachloroethene	ND		$ug/m^3$	1.40	0.70	1	08/26/21	08/26/21 00:05	WB
Tetrahydrofuran	0.21	J	ug/m³	0.59	0.15	1	08/26/21	08/26/21 00:05	WB
Гoluene	1.02		$ug/m^3$	0.75	0.35	1	08/26/21	08/26/21 00:05	WB
,2,4-Trichlorobenzene	ND		ug/m³	1.50	0.38	1	08/26/21	08/26/21 00:05	WB
1,1,1-Trichloroethane	ND		ug/m³	1.10	0.28	1	08/26/21	08/26/21 00:05	WB
1,1,2-Trichloroethane	ND		$ug/m^3$	1.10	0.28	1	08/26/21	08/26/21 00:05	WB
Trichloroethene	ND		$ug/m^3$	1.10	0.28	1	08/26/21	08/26/21 00:05	WB
Trichlorofluoromethane (Freon 11)	2.30		$ug/m^3$	1.10	0.28	1	08/26/21	08/26/21 00:05	WB
1,2,4-Trimethylbenzene	0.25	J	ug/m³	0.98	0.25	1	08/26/21	08/26/21 00:05	WB
1,3,5-Trimethylbenzene	ND		ug/m³	0.98	0.25	1	08/26/21	08/26/21 00:05	WB
2,2,4-Trimethylpentane	0.28	J	ug/m³	0.93	0.23	1	08/26/21	08/26/21 00:05	WB
Vinyl acetate	ND		ug/m³	0.70	0.70	1	08/26/21	08/26/21 00:05	WB
Vinyl bromide	ND		ug/m³	0.87	0.22	1	08/26/21	08/26/21 00:05	WB
Vinyl chloride	ND		ug/m³	0.51	0.13	1	08/26/21	08/26/21 00:05	WB
o-Xylene	0.30	J	ug/m³	0.87	0.22	1	08/26/21	08/26/21 00:05	WB
m- & p-Xylenes	0.69	J	ug/m³	1.70	0.43	1	08/26/21	08/26/21 00:05	WB
Surrogate: 4-Bromofluorobenzene		7.	3-115	101 %	08/26/21	l	08/26/21 00:05		

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**Reported:** 08/31/21 14:22

Project Number: [none]
Project Manager: Amber Confer

**Project: AC SATELLITE** 

CO-210-4A CLASS 21082410-003 1082527-03 (Vapor) Sample Date: 08/20/21

Sample Date: 08/20/21												
				Reporting	Detection							
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst			
Volatile Organics by EPA TO-1	5 (GC/MS) P	repared b	y TO-15 P	rep								
Acetone	17.9		$ug/m^3$	2.40	2.40	1	08/26/21	08/26/21 01:07	WB			
Benzene	0.26	J	$ug/m^3$	0.64	0.16	1	08/26/21	08/26/21 01:07	WB			
Benzyl chloride	ND		ug/m³	1.00	0.25	1	08/26/21	08/26/21 01:07	WB			
Bromodichloromethane	ND		$ug/m^3$	1.30	0.33	1	08/26/21	08/26/21 01:07	WB			
Bromoform	ND		$ug/m^3$	2.10	0.53	1	08/26/21	08/26/21 01:07	WB			
Bromomethane	ND		$ug/m^3$	0.78	0.20	1	08/26/21	08/26/21 01:07	WB			
1,3-Butadiene	ND		$ug/m^3$	0.44	0.44	1	08/26/21	08/26/21 01:07	WB			
Carbon disulfide	ND		$ug/m^3$	1.56	1.56	1	08/26/21	08/26/21 01:07	WB			
Carbon tetrachloride	0.38	J	$ug/m^3$	1.30	0.33	1	08/26/21	08/26/21 01:07	WB			
Chlorobenzene	ND		ug/m³	0.92	0.23	1	08/26/21	08/26/21 01:07	WB			
Chloroethane	ND		$ug/m^3$	0.53	0.27	1	08/26/21	08/26/21 01:07	WB			
Chloroform	ND		$ug/m^3$	0.97	0.24	1	08/26/21	08/26/21 01:07	WB			
Chloromethane	1.01		$ug/m^3$	0.41	0.10	1	08/26/21	08/26/21 01:07	WB			
3-Chloropropene	ND		$ug/m^3$	0.63	0.16	1	08/26/21	08/26/21 01:07	WB			
Cyclohexane	0.55	J	$ug/m^3$	0.69	0.17	1	08/26/21	08/26/21 01:07	WB			
Dibromochloromethane	ND		$ug/m^3$	1.30	0.33	1	08/26/21	08/26/21 01:07	WB			
1,2-Dibromoethane (EDB)	ND		$ug/m^3$	1.40	0.35	1	08/26/21	08/26/21 01:07	WB			
1,2-Dichlorobenzene	ND		$ug/m^3$	1.20	0.30	1	08/26/21	08/26/21 01:07	WB			
1,3-Dichlorobenzene	ND		$ug/m^3$	1.20	0.30	1	08/26/21	08/26/21 01:07	WB			
1,4-Dichlorobenzene	ND		$ug/m^3$	1.20	0.30	1	08/26/21	08/26/21 01:07	WB			
Dichlorodifluoromethane	2.72		$ug/m^3$	0.99	0.99	1	08/26/21	08/26/21 01:07	WB			
1,1-Dichloroethane	ND		$ug/m^3$	0.81	0.20	1	08/26/21	08/26/21 01:07	WB			
1,2-Dichloroethane	ND		$ug/m^3$	0.81	0.20	1	08/26/21	08/26/21 01:07	WB			
1,1-Dichloroethene	ND		$ug/m^3$	0.79	0.20	1	08/26/21	08/26/21 01:07	WB			
cis-1,2-Dichloroethene	ND		$ug/m^3$	0.79	0.20	1	08/26/21	08/26/21 01:07	WB			
trans-1,2-Dichloroethene	ND		$ug/m^3$	0.79	0.20	1	08/26/21	08/26/21 01:07	WB			
1,2-Dichloropropane	ND		$ug/m^3$	0.92	0.23	1	08/26/21	08/26/21 01:07	WB			
cis-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/26/21	08/26/21 01:07	WB			
trans-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/26/21	08/26/21 01:07	WB			
1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/26/21	08/26/21 01:07	WB			
Ethyl acetate	ND		ug/m³	3.60	3.60	1	08/26/21	08/26/21 01:07	WB			
Ethylbenzene	0.26	J	ug/m³	0.87	0.22	1	08/26/21	08/26/21 01:07	WB			
4-Ethyltoluene	ND		ug/m³	0.98	0.25	1	08/26/21	08/26/21 01:07	WB			
Freon 113	0.46	J	ug/m³	1.50	0.38	1	08/26/21	08/26/21 01:07	WB			

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**Project: AC SATELLITE** 

Project Number: [none]
Project Manager: Amber Confer

CO-210-4A CLASS 21082410-003 1082527-03 (Vapor) Sample Date: 08/20/21

				Sample Date: 0	3/20/21				
				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (C	GC/MS) Pi	repared b	y TO-15 F	Prep (continued)					
Freon 114	ND		ug/m³	1.40	1.40	1	08/26/21	08/26/21 01:07	WB
n-Heptane	0.37	J	ug/m³	0.82	0.21	1	08/26/21	08/26/21 01:07	WB
Hexachlorobutadiene	ND		$ug/m^3$	2.10	2.10	1	08/26/21	08/26/21 01:07	WB
Hexane	ND		$ug/m^3$	14.0	14.0	1	08/26/21	08/26/21 01:07	WB
2-Hexanone	ND		ug/m³	0.82	0.15	1	08/26/21	08/26/21 01:07	WB
(sopropylbenzene (Cumene)	ND		ug/m³	1.10	0.40	1	08/26/21	08/26/21 01:07	WB
Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.72	0.21	1	08/26/21	08/26/21 01:07	WB
Methylene chloride	ND		ug/m³	18.0	18.0	1	08/26/21	08/26/21 01:07	WB
Methyl ethyl ketone (2-Butanone)	1.00		ug/m³	0.59	0.34	1	08/26/21	08/26/21 01:07	WB
Methyl isobutyl ketone	ND		ug/m³	0.82	0.82	1	08/26/21	08/26/21 01:07	WB
Naphthalene	ND		ug/m³	1.10	0.70	1	08/26/21	08/26/21 01:07	WB
Propene	ND		ug/m³	0.34	0.34	1	08/26/21	08/26/21 01:07	WB
-Propylbenzene	ND		ug/m³	0.98	0.40	1	08/26/21	08/26/21 01:07	WB
Styrene	0.30	J	ug/m³	0.85	0.15	1	08/26/21	08/26/21 01:07	WB
,1,2,2-Tetrachloroethane	ND		ug/m³	1.40	0.35	1	08/26/21	08/26/21 01:07	WB
Tetrachloroethene	ND		ug/m³	1.40	0.70	1	08/26/21	08/26/21 01:07	WB
Tetrahydrofuran	0.21	J	ug/m³	0.59	0.15	1	08/26/21	08/26/21 01:07	WB
Toluene	0.98		ug/m³	0.75	0.35	1	08/26/21	08/26/21 01:07	WB
,2,4-Trichlorobenzene	ND		$ug/m^3$	1.50	0.38	1	08/26/21	08/26/21 01:07	WB
,1,1-Trichloroethane	ND		$ug/m^3$	1.10	0.28	1	08/26/21	08/26/21 01:07	WB
1,1,2-Trichloroethane	ND		$ug/m^3$	1.10	0.28	1	08/26/21	08/26/21 01:07	WB
Trichloroethene	ND		ug/m³	1.10	0.28	1	08/26/21	08/26/21 01:07	WB
Trichlorofluoromethane (Freon 11)	2.25		ug/m³	1.10	0.28	1	08/26/21	08/26/21 01:07	WB
,2,4-Trimethylbenzene	ND		$ug/m^3$	0.98	0.25	1	08/26/21	08/26/21 01:07	WB
,3,5-Trimethylbenzene	ND		ug/m³	0.98	0.25	1	08/26/21	08/26/21 01:07	WB
2,2,4-Trimethylpentane	0.23	J	ug/m³	0.93	0.23	1	08/26/21	08/26/21 01:07	WB
/inyl acetate	ND		$ug/m^3$	0.70	0.70	1	08/26/21	08/26/21 01:07	WB
Vinyl bromide	ND		ug/m³	0.87	0.22	1	08/26/21	08/26/21 01:07	WB
Vinyl chloride	ND		ug/m³	0.51	0.13	1	08/26/21	08/26/21 01:07	WB
o-Xylene	0.26	J	ug/m³	0.87	0.22	1	08/26/21	08/26/21 01:07	WB
m- & p-Xylenes	0.69	J	ug/m³	1.70	0.43	1	08/26/21	08/26/21 01:07	WB

 Surrogate: 4-Bromofluorobenzene
 73-115
 100 %
 08/26/21
 08/26/21 01:07

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sam Hamner, Senior Chemist



Project Number: [none]

Project Manager: Amber Confer

**Project: AC SATELLITE** 

## **Analytical Results**

\*nelac

1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

**Reported:** 08/31/21 14:22

21082410-004 1082527-04 (Vapor) Sample Date: 08/20/21

**CO-230-1A OFFICE** 

				Sample Date: 0	8/20/21				
				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-1	15 (GC/MS) Pi	repared b	y TO-15 I	Prep					
Acetone	22.4		ug/m³	2.40	2.40	1	08/26/21	08/26/21 01:41	WB
Benzene	0.29	J	ug/m³	0.64	0.16	1	08/26/21	08/26/21 01:41	WB
Benzyl chloride	ND		ug/m³	1.00	0.25	1	08/26/21	08/26/21 01:41	WB
Bromodichloromethane	ND		ug/m³	1.30	0.33	1	08/26/21	08/26/21 01:41	WB
Bromoform	ND		ug/m³	2.10	0.53	1	08/26/21	08/26/21 01:41	WB
Bromomethane	ND		ug/m³	0.78	0.20	1	08/26/21	08/26/21 01:41	WB
1,3-Butadiene	ND		ug/m³	0.44	0.44	1	08/26/21	08/26/21 01:41	WB
Carbon disulfide	ND		ug/m³	1.56	1.56	1	08/26/21	08/26/21 01:41	WB
Carbon tetrachloride	0.44	J	ug/m³	1.30	0.33	1	08/26/21	08/26/21 01:41	WB
Chlorobenzene	ND		ug/m³	0.92	0.23	1	08/26/21	08/26/21 01:41	WB
Chloroethane	ND		ug/m³	0.53	0.27	1	08/26/21	08/26/21 01:41	WB
Chloroform	2.15		ug/m³	0.97	0.24	1	08/26/21	08/26/21 01:41	WB
Chloromethane	1.18		ug/m³	0.41	0.10	1	08/26/21	08/26/21 01:41	WB
3-Chloropropene	ND		ug/m³	0.63	0.16	1	08/26/21	08/26/21 01:41	WB
Cyclohexane	1.03		ug/m³	0.69	0.17	1	08/26/21	08/26/21 01:41	WB
Dibromochloromethane	ND		ug/m³	1.30	0.33	1	08/26/21	08/26/21 01:41	WB
1,2-Dibromoethane (EDB)	ND		ug/m³	1.40	0.35	1	08/26/21	08/26/21 01:41	WB
1,2-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/26/21	08/26/21 01:41	WB
1,3-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/26/21	08/26/21 01:41	WB
1,4-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/26/21	08/26/21 01:41	WB
Dichlorodifluoromethane	3.56		ug/m³	0.99	0.99	1	08/26/21	08/26/21 01:41	WB
1,1-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/26/21	08/26/21 01:41	WB
1,2-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/26/21	08/26/21 01:41	WB
1,1-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/26/21	08/26/21 01:41	WB
cis-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/26/21	08/26/21 01:41	WB
trans-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/26/21	08/26/21 01:41	WB
1,2-Dichloropropane	ND		ug/m³	0.92	0.23	1	08/26/21	08/26/21 01:41	WB
cis-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/26/21	08/26/21 01:41	WB
trans-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/26/21	08/26/21 01:41	WB
1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/26/21	08/26/21 01:41	WB
Ethyl acetate	ND		ug/m³	3.60	3.60	1	08/26/21	08/26/21 01:41	WB
Ethylbenzene	0.26	J	ug/m³	0.87	0.22	1	08/26/21	08/26/21 01:41	WB
4-Ethyltoluene	0.25	J	ug/m³	0.98	0.25	1	08/26/21	08/26/21 01:41	WB
Freon 113	0.54	J	ug/m³	1.50	0.38	1	08/26/21	08/26/21 01:41	WB

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Sam Hamner, Senior Chemist



Project Number: [none]

Project Manager: Amber Confer

**Project: AC SATELLITE** 

## **Analytical Results**

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1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

**Reported:** 08/31/21 14:22

CO-230-1A OFFICE 21082410-004 1082527-04 (Vapor)

				Sample Date: 08	3/20/21				
				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (C	GC/MS) P	repared b	y TO-15 F	Prep (continued)					
Freon 114	ND	-	ug/m³	1.40	1.40	1	08/26/21	08/26/21 01:41	WB
n-Heptane	0.57	J	ug/m³	0.82	0.21	1	08/26/21	08/26/21 01:41	WB
Hexachlorobutadiene	ND		ug/m³	2.10	2.10	1	08/26/21	08/26/21 01:41	WB
Hexane	ND		ug/m³	14.0	14.0	1	08/26/21	08/26/21 01:41	WB
2-Hexanone	0.16	J	ug/m³	0.82	0.15	1	08/26/21	08/26/21 01:41	WB
sopropylbenzene (Cumene)	ND		ug/m³	1.10	0.40	1	08/26/21	08/26/21 01:41	WB
Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.72	0.21	1	08/26/21	08/26/21 01:41	WB
Methylene chloride	ND		ug/m³	18.0	18.0	1	08/26/21	08/26/21 01:41	WB
Methyl ethyl ketone (2-Butanone)	1.45		ug/m³	0.59	0.34	1	08/26/21	08/26/21 01:41	WB
Methyl isobutyl ketone	ND		ug/m³	0.82	0.82	1	08/26/21	08/26/21 01:41	WB
Naphthalene	ND		ug/m³	1.10	0.70	1	08/26/21	08/26/21 01:41	WB
Propene	ND		ug/m³	0.34	0.34	1	08/26/21	08/26/21 01:41	WB
-Propylbenzene	ND		ug/m³	0.98	0.40	1	08/26/21	08/26/21 01:41	WB
styrene	0.38	J	ug/m³	0.85	0.15	1	08/26/21	08/26/21 01:41	WB
,1,2,2-Tetrachloroethane	ND		ug/m³	1.40	0.35	1	08/26/21	08/26/21 01:41	WB
Cetrachloroethene	ND		ug/m³	1.40	0.70	1	08/26/21	08/26/21 01:41	WB
Tetrahydrofuran	0.24	J	ug/m³	0.59	0.15	1	08/26/21	08/26/21 01:41	WB
Coluene	1.21		ug/m³	0.75	0.35	1	08/26/21	08/26/21 01:41	WB
,2,4-Trichlorobenzene	ND		ug/m³	1.50	0.38	1	08/26/21	08/26/21 01:41	WB
,1,1-Trichloroethane	ND		ug/m³	1.10	0.28	1	08/26/21	08/26/21 01:41	WB
,1,2-Trichloroethane	ND		ug/m³	1.10	0.28	1	08/26/21	08/26/21 01:41	WB
Frichloroethene	ND		ug/m³	1.10	0.28	1	08/26/21	08/26/21 01:41	WB
Frichlorofluoromethane (Freon 11)	3.26		ug/m³	1.10	0.28	1	08/26/21	08/26/21 01:41	WB
,2,4-Trimethylbenzene	0.29	J	ug/m³	0.98	0.25	1	08/26/21	08/26/21 01:41	WB
,3,5-Trimethylbenzene	ND		ug/m³	0.98	0.25	1	08/26/21	08/26/21 01:41	WB
,2,4-Trimethylpentane	0.33	J	ug/m³	0.93	0.23	1	08/26/21	08/26/21 01:41	WB
inyl acetate	ND		ug/m³	0.70	0.70	1	08/26/21	08/26/21 01:41	WB
inyl bromide	ND		ug/m³	0.87	0.22	1	08/26/21	08/26/21 01:41	WB
Vinyl chloride	ND		ug/m³	0.51	0.13	1	08/26/21	08/26/21 01:41	WB
o-Xylene	0.30	J	ug/m³	0.87	0.22	1	08/26/21	08/26/21 01:41	WB
n- & p-Xylenes	0.78	J	ug/m³	1.70	0.43	1	08/26/21	08/26/21 01:41	WB
Surrogate: 4-Bromofluorobenzene		7.	3-115	100 %	08/26/21		08/26/21 01:41		

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Sam Hamner, Senior Chemist



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1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

**Reported:** 08/31/21 14:22

Project: AC SATELLITE

Project Number: [none]
Project Manager: Amber Confer

CO-CAFE 21082410-005 1082527-05 (Vapor) Sample Date: 08/20/21

Name	Reporting Detection													
Volatile Organics by EPA TO-15 (GC/MS) Prepared by TO-15 Prep														
Actone						Limit (LOD)	Dilution	Prepared	Analyzed	Analyst				
Benzene         0.29         J         ug/m²         0.64         0.16         1         08/26/21         08/26/21         02/26/21         WB           Benzyl chloride         ND         ug/m²         1.00         0.25         1         08/26/21         08/26/21         02/26/21         WB           Bromodichloromethane         ND         ug/m²         2.10         0.53         1         08/26/21         08/26/21         02/22         WB           Bromonoform         ND         ug/m²         2.10         0.53         1         08/26/21         08/26/21         02/22         WB           Bromonoform         ND         ug/m²         0.78         0.20         1         08/26/21         08/26/21         02/22         WB           Bromonoform         ND         ug/m²         0.44         0.44         0.44         0.44         0.44         0.44         0.44         0.44         0.44         0.44         0.44         0.44         0.44         0.44         0.44         0.44         0.44         0.826/21         08/26/21         08/26/21         0.226/21         08/26/21         08/26/21         0.226/21         0.226/21         0.226/21         0.226/21         0.226/21         0.226/21 </th <th><b>Volatile Organics by EPA TO-</b></th> <th>15 (GC/MS) Pi</th> <th>repared by</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	<b>Volatile Organics by EPA TO-</b>	15 (GC/MS) Pi	repared by											
Benzyl chloride				-										
Bromodichloromethane			J	_										
Bromoform   ND	•			-										
Bromomethane   ND														
1,3-Butadiene         ND         ug/m²         0.44         0.44         1         082621         082621 02:22         WB           Carbon disulfide         ND         ug/m²         1.56         1.56         1         082621         082621 02:22         WB           Carbon tetrachloride         0.44         J         ug/m²         1.30         0.33         1         082621         082621 02:22         WB           Chlorochane         ND         ug/m²         0.53         0.27         1         082621         082621 02:22         WB           Chloroform         ND         ug/m²         0.53         0.27         1         082621         082621 02:22         WB           Chloroform         ND         ug/m²         0.41         0.10         1         082621         082621 02:22         WB           Chloromethane         1.28         ug/m²         0.63         0.16         0.10         0         082621         082621 02:22         WB           Chloromethane         ND         ug/m²         0.69         0.17         1         082621         082621 02:22         WB           Cyclohexae         ND         ug/m²         1.30         0.33         1         08		ND		ug/m³	2.10	0.53	1	08/26/21	08/26/21 02:22	WB				
Carbon disulfide         ND         ug/m²         1.56         1.56         1         082621         082621         0.222         WB           Carbon tetrachloride         0.44         J         ug/m²         0.92         0.23         1         082621         082621 02:22         WB           Chlorobenzene         ND         ug/m²         0.92         0.23         1         082621         082621 02:22         WB           Chlorocthane         ND         ug/m²         0.93         0.27         1         0.82621         0826210:22         WB           Chloromethane         ND         ug/m²         0.53         0.27         1         0.82621         0826210:22         WB           Chloromethane         1.28         ug/m²         0.41         0.10         1         082621         0826210:22         WB           Chloromethane         ND         ug/m²         0.63         0.16         1         082621         0826210:22         WB           Chloromethane         ND         ug/m²         0.69         0.17         1         082621         0826210:22         WB           Lj-Dichloromethane         ND         ug/m²         1.40         0.35         1	Bromomethane	ND		ug/m³	0.78	0.20	1	08/26/21	08/26/21 02:22	WB				
Carbon tetrachloride         0.44         J         ug/m²         1.30         0.33         1         08/26/21         08/26/21 0.222         WB           Chlorobenzene         ND         ug/m²         0.92         0.23         1         08/26/21         08/26/21 0.222         WB           Chlorochtane         ND         ug/m²         0.53         0.27         1         08/26/21         08/26/21 0.222         WB           Chlorochtane         ND         ug/m²         0.41         0.10         1         08/26/21         08/26/21 0.222         WB           Chloromethane         1.28         ug/m²         0.63         0.16         1         08/26/21         08/26/21 0.222         WB           Cyctobexane         0.55         Jug/m²         0.69         0.17         1         08/26/21         08/26/21 0.222         WB           Dibromochloromethane         ND         ug/m²         1.40         0.35         1         08/26/21         08/26/21 0.222         WB           1,2-Dirchlorobenzene         ND         ug/m²         1.20         0.30         1         08/26/21         08/26/21 0.222         WB           1,4-Dichlorochenzene         ND         ug/m²         1.20         0.30<	1,3-Butadiene	ND		ug/m³	0.44	0.44	1	08/26/21	08/26/21 02:22	WB				
Chlorobenzene         ND         ug/m³         0.92         0.23         1         08/26/21         08/26/21         WB           Chloroethane         ND         ug/m³         0.53         0.27         1         08/26/21         08/26/21         02/22         WB           Chloroethane         ND         ug/m³         0.97         0.24         1         08/26/21         08/26/21         02/22         WB           Chloromethane         1.28         ug/m³         0.41         0.10         1         08/26/21         08/26/21         02/22         WB           Chloromethane         1.D         ug/m³         0.63         0.16         1         08/26/21         08/26/21         02/22         WB           Cyclohexane         0.55         J         ug/m³         0.69         0.17         1         08/26/21         08/26/21 02:22         WB           Dibromochloromethane         ND         ug/m³         1.40         0.35         1         08/26/21         08/26/21 02:22         WB           1,2-Dichlorobenzene         ND         ug/m³         1.20         0.30         1         08/26/21         08/26/21 02:22         WB           LjDichlorobenzene         ND <th< td=""><td>Carbon disulfide</td><td>ND</td><td></td><td>ug/m³</td><td>1.56</td><td>1.56</td><td>1</td><td>08/26/21</td><td>08/26/21 02:22</td><td>WB</td></th<>	Carbon disulfide	ND		ug/m³	1.56	1.56	1	08/26/21	08/26/21 02:22	WB				
Chloroethane ND ug/m² 0.53 0.27 1 0826/21 0826/21 02:22 WB Chloroform ND ug/m² 0.97 0.24 1 0826/21 0826/21 02:22 WB Chloroform ND ug/m² 0.41 0.10 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.63 0.16 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.63 0.16 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.69 0.17 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 1.30 0.33 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 1.30 0.33 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 1.30 0.33 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 1.20 0.30 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 1.20 0.30 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 1.20 0.30 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 1.20 0.30 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 1.20 0.30 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.99 0.99 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.81 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.81 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.81 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.81 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene ND ug/m² 0.79 0.20 1 0826/21 0826/21 02:22 WB Chloropropene	Carbon tetrachloride	0.44	J	$ug/m^3$	1.30	0.33	1	08/26/21	08/26/21 02:22	WB				
Chloroform         ND         ug/m²         0.97         0.24         1         08/26/21         08/26/21 02:22         WB           Chloromethane         1.28         ug/m²         0.41         0.10         1         08/26/21         08/26/21 02:22         WB           3-Chloropropene         ND         ug/m²         0.63         0.16         1         08/26/21         08/26/21 02:22         WB           Cyclobexane         0.55         J         ug/m²         0.69         0.17         1         08/26/21         08/26/21 02:22         WB           Dibromochloromethane         ND         ug/m²         1.30         0.33         1         08/26/21         08/26/21 02:22         WB           1,2-Dibromochlaromethane (EDB)         ND         ug/m²         1.40         0.35         1         08/26/21         08/26/21 02:22         WB           1,2-Dichlorobenzene         ND         ug/m²         1.20         0.30         1         08/26/21         08/26/21 02:22         WB           1,4-Dichlorobenzene         ND         ug/m²         1.20         0.30         1         08/26/21         08/26/21 02:22         WB           Dichlorodifluoromethane         3.07         ug/m²         0.99	Chlorobenzene	ND		ug/m³	0.92	0.23	1	08/26/21	08/26/21 02:22	WB				
Chloromethane         1.28         ug/m²         0.41         0.10         1         08/26/21         08/26/21 02:22         WB           3-Chloropropene         ND         ug/m²         0.63         0.16         1         08/26/21         08/26/21 02:22         WB           Cyclohexane         0.55         J         ug/m²         0.69         0.17         1         08/26/21         08/26/21 02:22         WB           Dibromochloromethane         ND         ug/m²         1.30         0.33         1         08/26/21         08/26/21 02:22         WB           1,2-Dibromochloromethane (EDB)         ND         ug/m²         1.40         0.35         1         08/26/21         08/26/21 02:22         WB           1,2-Dichlorobenzene         ND         ug/m²         1.20         0.30         1         08/26/21         08/26/21 02:22         WB           1,4-Dichlorobenzene         ND         ug/m²         1.20         0.30         1         08/26/21         08/26/21 02:22         WB           1,4-Dichlorobenzene         ND         ug/m²         0.99         0.99         1         08/26/21         08/26/21 02:22         WB           1,4-Dichlorobtane         ND         ug/m²         0.81 <td>Chloroethane</td> <td>ND</td> <td></td> <td>ug/m³</td> <td>0.53</td> <td>0.27</td> <td>1</td> <td>08/26/21</td> <td>08/26/21 02:22</td> <td>WB</td>	Chloroethane	ND		ug/m³	0.53	0.27	1	08/26/21	08/26/21 02:22	WB				
Second Comment   Seco	Chloroform	ND		$ug/m^3$	0.97	0.24	1	08/26/21	08/26/21 02:22	WB				
Cyclohexane         0.55         J         ug/m³         0.69         0.17         1         08/26/21         08/26/21 02:22         WB           Dibromochloromethane         ND         ug/m³         1.30         0.33         1         08/26/21         08/26/21 02:22         WB           1,2-Dibromoethane (EDB)         ND         ug/m³         1.40         0.35         1         08/26/21         08/26/21 02:22         WB           1,2-Dichlorobenzene         ND         ug/m³         1.20         0.30         1         08/26/21         08/26/21 02:22         WB           1,3-Dichlorobenzene         ND         ug/m³         1.20         0.30         1         08/26/21         08/26/21 02:22         WB           1,4-Dichlorobenzene         ND         ug/m³         1.20         0.30         1         08/26/21         08/26/21 02:22         WB           Dichlorodifluoromethane         3.07         ug/m³         1.20         0.30         1         08/26/21         08/26/21 02:22         WB           1,1-Dichloroethane         ND         ug/m³         0.81         0.20         1         08/26/21         08/26/21 02:22         WB           1,2-Dichloroethane         ND         ug/m³         0	Chloromethane	1.28		ug/m³	0.41	0.10	1	08/26/21	08/26/21 02:22	WB				
Dibromochloromethane ND ug/m³ 1.30 0.33 1 08/26/21 02:22 WB 1,2-Dibromochloromethane (EDB) ND ug/m³ 1.40 0.35 1 08/26/21 02:22 WB 1,2-Dichlorobenzene ND ug/m³ 1.20 0.30 1 08/26/21 02:22 WB 1,3-Dichlorobenzene ND ug/m³ 1.20 0.30 1 08/26/21 08/26/21 02:22 WB 1,3-Dichlorobenzene ND ug/m³ 1.20 0.30 1 08/26/21 08/26/21 02:22 WB 1,4-Dichlorobenzene ND ug/m³ 1.20 0.30 1 08/26/21 08/26/21 02:22 WB 1,4-Dichlorobenzene ND ug/m³ 0.99 0.99 1 08/26/21 08/26/21 02:22 WB 1,1-Dichlorothane ND ug/m³ 0.81 0.20 1 08/26/21 08/26/21 02:22 WB 1,1-Dichlorothane ND ug/m³ 0.81 0.20 1 08/26/21 08/26/21 02:22 WB 1,1-Dichlorothane ND ug/m³ 0.81 0.20 1 08/26/21 08/26/21 02:22 WB 1,1-Dichlorothane ND ug/m³ 0.79 0.20 1 08/26/21 08/26/21 02:22 WB 1,1-Dichlorothene ND ug/m³ 0.79 0.20 1 08/26/21 08/26/21 02:22 WB 1,2-Dichlorothene ND ug/m³ 0.79 0.20 1 08/26/21 08/26/21 02:22 WB 1,2-Dichlorothene ND ug/m³ 0.79 0.20 1 08/26/21 08/26/21 02:22 WB 1,2-Dichlorothene ND ug/m³ 0.79 0.20 1 08/26/21 08/26/21 02:22 WB 1,2-Dichlorothene ND ug/m³ 0.79 0.20 1 08/26/21 08/26/21 02:22 WB 1,2-Dichloropropane ND ug/m³ 0.79 0.20 1 08/26/21 08/26/21 02:22 WB 1,3-Dichloropropane ND ug/m³ 0.91 0.23 1 08/26/21 08/26/21 02:22 WB 1 1,3-Dichloropropane ND ug/m³ 0.91 0.23 1 08/26/21 08/26/21 02:22 WB 1 1,4-Dioxane ND ug/m³ 0.91 0.23 1 08/26/21 08/26/21 02:22 WB 1 1,4-Dioxane ND ug/m³ 0.72 0.18 1 08/26/21 08/26/21 02:22 WB 1 1,4-Dioxane ND ug/m³ 0.72 0.18 1 08/26/21 08/26/21 02:22 WB 1 1,4-Dioxane ND ug/m³ 0.72 0.18 1 08/26/21 08/26/21 02:22 WB 1 1,4-Dioxane ND ug/m³ 0.72 0.18 1 08/26/21 08/26/21 02:22 WB 1 1,4-Dioxane ND ug/m³ 0.72 0.18 1 08/26/21 08/26/21 02:22 WB 1 1,4-Dioxane ND ug/m³ 0.72 0.18 1 08/26/21 08/26/21 02:22 WB 1 1,4-Dioxane ND ug/m³ 0.72 0.18 1 08/26/21 08/26/21 02:22 WB 1 1,4-Dioxane ND ug/m³ 0.72 0.18 1 08/26/21 08/26/21 02:22 WB 1 1,4-Dioxane ND ug/m³ 0.72 0.18 1 08/26/21 08/26/21 02:22 WB 1 1,4-Dioxane ND ug/m³ 0.72 0.18 1 08/26/21 08/26/21 02:22 WB 1 1,4-Dioxane ND ug/m³ 0.72 0.72 0.18 1 08/26/21 08/26/21 02:22 WB 1 1,4-Dioxane ND ug/m³ 0.72 0.72 0.1	3-Chloropropene	ND		ug/m³	0.63	0.16	1	08/26/21	08/26/21 02:22	WB				
1,2-Dibromoethane (EDB)   ND	Cyclohexane	0.55	J	$ug/m^3$	0.69	0.17	1	08/26/21	08/26/21 02:22					
1,2-Dichlorobenzene ND ug/m³ 1.20 0.30 1 08/26/21 08/26/21 02:22 WB 1,3-Dichlorobenzene ND ug/m³ 1.20 0.30 1 08/26/21 08/26/21 02:22 WB 1,4-Dichlorobenzene ND ug/m³ 1.20 0.30 1 08/26/21 08/26/21 02:22 WB 1,4-Dichlorobenzene ND ug/m³ 0.99 0.99 1 08/26/21 08/26/21 02:22 WB 1,1-Dichloroethane ND ug/m³ 0.81 0.20 1 08/26/21 08/26/21 02:22 WB 1,2-Dichloroethane ND ug/m³ 0.81 0.20 1 08/26/21 08/26/21 02:22 WB 1,1-Dichloroethane ND ug/m³ 0.81 0.20 1 08/26/21 08/26/21 02:22 WB 1,1-Dichloroethane ND ug/m³ 0.79 0.20 1 08/26/21 08/26/21 02:22 WB 2,2-Dichloroethene ND ug/m³ 0.79 0.20 1 08/26/21 08/26/21 02:22 WB 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Dibromochloromethane	ND		ug/m³	1.30	0.33	1	08/26/21	08/26/21 02:22	WB				
1,3-Dichlorobenzene         ND         ug/m³         1,20         0.30         1         08/26/21         08/26/21 02:22         WB           1,4-Dichlorobenzene         ND         ug/m³         1,20         0.30         1         08/26/21         08/26/21 02:22         WB           Dichlorodifluoromethane         3.07         ug/m³         0.99         0.99         1         08/26/21         08/26/21 02:22         WB           1,1-Dichloroethane         ND         ug/m³         0.81         0.20         1         08/26/21         08/26/21 02:22         WB           1,2-Dichloroethane         ND         ug/m³         0.81         0.20         1         08/26/21         08/26/21 02:22         WB           1,1-Dichloroethene         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           cis-1,2-Dichloroethene         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           trans-1,2-Dichloropropane         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           cis-1,3-Dichloropropane         ND         ug/m³         0.91 <td>1,2-Dibromoethane (EDB)</td> <td>ND</td> <td></td> <td>ug/m³</td> <td>1.40</td> <td>0.35</td> <td>1</td> <td>08/26/21</td> <td>08/26/21 02:22</td> <td>WB</td>	1,2-Dibromoethane (EDB)	ND		ug/m³	1.40	0.35	1	08/26/21	08/26/21 02:22	WB				
1,4-Dichlorobenzene       ND       ug/m³       1,20       0.30       1       08/26/21       08/26/21 02:22       WB         Dichlorodifluoromethane       3.07       ug/m³       0.99       0.99       1       08/26/21       08/26/21 02:22       WB         1,1-Dichloroethane       ND       ug/m³       0.81       0.20       1       08/26/21       08/26/21 02:22       WB         1,2-Dichloroethane       ND       ug/m³       0.81       0.20       1       08/26/21       08/26/21 02:22       WB         1,1-Dichloroethene       ND       ug/m³       0.79       0.20       1       08/26/21       08/26/21 02:22       WB         1,2-Dichloroethene       ND       ug/m³       0.79       0.20       1       08/26/21       08/26/21 02:22       WB         1,2-Dichloroethene       ND       ug/m³       0.79       0.20       1       08/26/21       08/26/21 02:22       WB         1,2-Dichloroptopane       ND       ug/m³       0.92       0.23       1       08/26/21       08/26/21 02:22       WB         cis-1,3-Dichloropropene       ND       ug/m³       0.91       0.23       1       08/26/21       08/26/21 02:22       WB         trans-1,3-Di	1,2-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/26/21	08/26/21 02:22	WB				
Dichlorodifluoromethane         3.07         ug/m³         0.99         0.99         1         08/26/21         08/26/21 02:22         WB           1,1-Dichloroethane         ND         ug/m³         0.81         0.20         1         08/26/21         08/26/21 02:22         WB           1,2-Dichloroethane         ND         ug/m³         0.81         0.20         1         08/26/21         08/26/21 02:22         WB           1,1-Dichloroethane         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           1,1-Dichloroethene         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           cis-1,2-Dichloroethene         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           1,2-Dichloroethene         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           1,2-Dichloroptopane         ND         ug/m³         0.91         0.23         1         08/26/21         08/26/21 02:22         WB           trans-1,3-Dichloroptopene         ND         ug/m³         0.91	1,3-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/26/21	08/26/21 02:22	WB				
1,1-Dichloroethane         ND         ug/m³         0.81         0.20         1         08/26/21         08/26/21 02:22         WB           1,2-Dichloroethane         ND         ug/m³         0.81         0.20         1         08/26/21         08/26/21 02:22         WB           1,1-Dichloroethane         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           cis-1,2-Dichloroethane         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           trans-1,2-Dichloroethane         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           trans-1,2-Dichloroethane         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           1,2-Dichloropropane         ND         ug/m³         0.92         0.23         1         08/26/21         08/26/21 02:22         WB           cis-1,3-Dichloropropene         ND         ug/m³         0.91         0.23         1         08/26/21         08/26/21 02:22         WB           1,4-Dioxane         ND         ug/m³         0.72	1,4-Dichlorobenzene	ND		ug/m³	1.20	0.30	1	08/26/21	08/26/21 02:22	WB				
1,2-Dichloroethane       ND       ug/m³       0.81       0.20       1       08/26/21       08/26/21 02:22       WB         1,1-Dichloroethene       ND       ug/m³       0.79       0.20       1       08/26/21       08/26/21 02:22       WB         cis-1,2-Dichloroethene       ND       ug/m³       0.79       0.20       1       08/26/21       08/26/21 02:22       WB         trans-1,2-Dichloroethene       ND       ug/m³       0.79       0.20       1       08/26/21       08/26/21 02:22       WB         1,2-Dichloropropane       ND       ug/m³       0.79       0.20       1       08/26/21       08/26/21 02:22       WB         cis-1,3-Dichloropropane       ND       ug/m³       0.91       0.23       1       08/26/21       08/26/21 02:22       WB         trans-1,3-Dichloropropene       ND       ug/m³       0.91       0.23       1       08/26/21       08/26/21 02:22       WB         1,4-Dioxane       ND       ug/m³       0.72       0.18       1       08/26/21       08/26/21 02:22       WB         Ethyl acetate       ND       ug/m³       0.87       0.22       1       08/26/21       08/26/21 02:22       WB         Ethylbenzene <td>Dichlorodifluoromethane</td> <td>3.07</td> <td></td> <td>ug/m³</td> <td>0.99</td> <td>0.99</td> <td>1</td> <td>08/26/21</td> <td>08/26/21 02:22</td> <td>WB</td>	Dichlorodifluoromethane	3.07		ug/m³	0.99	0.99	1	08/26/21	08/26/21 02:22	WB				
1,1-Dichloroethene         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           cis-1,2-Dichloroethene         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           trans-1,2-Dichloroethene         ND         ug/m³         0.79         0.20         1         08/26/21         08/26/21 02:22         WB           1,2-Dichloropropane         ND         ug/m³         0.92         0.23         1         08/26/21         08/26/21 02:22         WB           cis-1,3-Dichloropropene         ND         ug/m³         0.91         0.23         1         08/26/21         08/26/21 02:22         WB           trans-1,3-Dichloropropene         ND         ug/m³         0.91         0.23         1         08/26/21         08/26/21 02:22         WB           1,4-Dioxane         ND         ug/m³         0.72         0.18         1         08/26/21         08/26/21 02:22         WB           Ethyl acetate         ND         ug/m³         0.87         0.22         1         08/26/21         08/26/21 02:22         WB           Ethylbenzene         0.26         J         ug/m³         0.87 </td <td>1,1-Dichloroethane</td> <td>ND</td> <td></td> <td>ug/m³</td> <td>0.81</td> <td>0.20</td> <td>1</td> <td>08/26/21</td> <td>08/26/21 02:22</td> <td>WB</td>	1,1-Dichloroethane	ND		ug/m³	0.81	0.20	1	08/26/21	08/26/21 02:22	WB				
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1,2-Dichloropropane         ND         ug/m³         0.92         0.23         1         08/26/21         08/26/21 02:22         WB           cis-1,3-Dichloropropene         ND         ug/m³         0.91         0.23         1         08/26/21         08/26/21 02:22         WB           trans-1,3-Dichloropropene         ND         ug/m³         0.91         0.23         1         08/26/21         08/26/21 02:22         WB           1,4-Dioxane         ND         ug/m³         0.72         0.18         1         08/26/21         08/26/21 02:22         WB           Ethyl acetate         ND         ug/m³         3.60         3.60         1         08/26/21         08/26/21 02:22         WB           Ethylbenzene         0.26         J         ug/m³         0.87         0.22         1         08/26/21         08/26/21 02:22         WB           4-Ethyltoluene         0.25         J         ug/m³         0.98         0.25         1         08/26/21         08/26/21 02:22         WB	cis-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/26/21	08/26/21 02:22	WB				
cis-1,3-Dichloropropene ND ug/m³ 0.91 0.23 1 08/26/21 02:22 WB trans-1,3-Dichloropropene ND ug/m³ 0.91 0.23 1 08/26/21 02:22 WB 1,4-Dioxane ND ug/m³ 0.72 0.18 1 08/26/21 08/26/21 02:22 WB Ethyl acetate ND ug/m³ 3.60 3.60 1 08/26/21 08/26/21 02:22 WB Ethylbenzene 0.26 J ug/m³ 0.87 0.22 1 08/26/21 08/26/21 02:22 WB 4-Ethyltoluene 0.25 J ug/m³ 0.98 0.25 1 08/26/21 08/26/21 02:22 WB	trans-1,2-Dichloroethene	ND		ug/m³	0.79	0.20	1	08/26/21	08/26/21 02:22	WB				
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1,4-Dioxane         ND         ug/m³         0.72         0.18         1         08/26/21         08/26/21 02:22         WB           Ethyl acetate         ND         ug/m³         3.60         3.60         1         08/26/21         08/26/21 02:22         WB           Ethylbenzene         0.26         J         ug/m³         0.87         0.22         1         08/26/21         08/26/21 02:22         WB           4-Ethyltoluene         0.25         J         ug/m³         0.98         0.25         1         08/26/21         08/26/21 02:22         WB	cis-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/26/21	08/26/21 02:22	WB				
Ethyl acetate         ND         ug/m³         3.60         3.60         1         08/26/21         08/26/21         02:22         WB           Ethylbenzene         0.26         J         ug/m³         0.87         0.22         1         08/26/21         08/26/21         02:22         WB           4-Ethyltoluene         0.25         J         ug/m³         0.98         0.25         1         08/26/21         08/26/21         02:22         WB	trans-1,3-Dichloropropene	ND		ug/m³	0.91	0.23	1	08/26/21	08/26/21 02:22	WB				
Ethyl acetate         ND         ug/m³         3.60         3.60         1         08/26/21         08/26/21 02:22         WB           Ethylbenzene         0.26         J         ug/m³         0.87         0.22         1         08/26/21         08/26/21 02:22         WB           4-Ethyltoluene         0.25         J         ug/m³         0.98         0.25         1         08/26/21         08/26/21 02:22         WB	1,4-Dioxane	ND		ug/m³	0.72	0.18	1	08/26/21	08/26/21 02:22	WB				
Ethylbenzene         0.26         J         ug/m³         0.87         0.22         1         08/26/21         08/26/21         02:22         WB           4-Ethyltoluene         0.25         J         ug/m³         0.98         0.25         1         08/26/21         08/26/21         02:22         WB		ND		ug/m³	3.60		1	08/26/21	08/26/21 02:22	WB				
<b>4-Ethyltoluene 0.25</b> J ug/m³ 0.98 0.25 1 08/26/21 02:22 WB	•		J	-			1	08/26/21	08/26/21 02:22	WB				
·	·		J	_			1	08/26/21	08/26/21 02:22	WB				
	•	0.54	J	ug/m³	1.50	0.38	1	08/26/21	08/26/21 02:22	WB				

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sam Hamner, Senior Chemist



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1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

**Reported:** 08/31/21 14:22

Project: AC SATELLITE
Project Number: [none]

Project Manager: Amber Confer

CO-CAFE 21082410-005 1082527-05 (Vapor) Sample Date: 08/20/21

				Sample Date: 0	5/20/21				
				Reporting	Detection				
Analyte	Result	Notes	Units	Limit (MRL)	Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA TO-15 (C	GC/MS) Pi	repared b	y TO-15 F	Prep (continued)					
Freon 114	ND		ug/m³	1.40	1.40	1	08/26/21	08/26/21 02:22	WB
n-Heptane	0.57	J	ug/m³	0.82	0.21	1	08/26/21	08/26/21 02:22	WB
Hexachlorobutadiene	ND		$ug/m^3$	2.10	2.10	1	08/26/21	08/26/21 02:22	WB
Hexane	ND		$ug/m^3$	14.0	14.0	1	08/26/21	08/26/21 02:22	WB
2-Hexanone	0.20	J	ug/m³	0.82	0.15	1	08/26/21	08/26/21 02:22	WB
Isopropylbenzene (Cumene)	ND		$ug/m^3$	1.10	0.40	1	08/26/21	08/26/21 02:22	WB
Methyl tert-butyl ether (MTBE)	ND		$ug/m^3$	0.72	0.21	1	08/26/21	08/26/21 02:22	WB
Methylene chloride	ND		$ug/m^3$	18.0	18.0	1	08/26/21	08/26/21 02:22	WB
Methyl ethyl ketone (2-Butanone)	1.24		ug/m³	0.59	0.34	1	08/26/21	08/26/21 02:22	WB
Methyl isobutyl ketone	ND		$ug/m^3$	0.82	0.82	1	08/26/21	08/26/21 02:22	WB
Naphthalene	ND		$ug/m^3$	1.10	0.70	1	08/26/21	08/26/21 02:22	WB
Propene	ND		ug/m³	0.34	0.34	1	08/26/21	08/26/21 02:22	WB
n-Propylbenzene	ND		ug/m³	0.98	0.40	1	08/26/21	08/26/21 02:22	WB
Styrene	0.34	J	ug/m³	0.85	0.15	1	08/26/21	08/26/21 02:22	WB
1,1,2,2-Tetrachloroethane	ND		$ug/m^3$	1.40	0.35	1	08/26/21	08/26/21 02:22	WB
Tetrachloroethene	ND		$ug/m^3$	1.40	0.70	1	08/26/21	08/26/21 02:22	WB
Tetrahydrofuran	0.21	J	ug/m³	0.59	0.15	1	08/26/21	08/26/21 02:22	WB
Toluene	1.13		$ug/m^3$	0.75	0.35	1	08/26/21	08/26/21 02:22	WB
1,2,4-Trichlorobenzene	ND		$ug/m^3$	1.50	0.38	1	08/26/21	08/26/21 02:22	WB
1,1,1-Trichloroethane	ND		$ug/m^3$	1.10	0.28	1	08/26/21	08/26/21 02:22	WB
1,1,2-Trichloroethane	ND		$ug/m^3$	1.10	0.28	1	08/26/21	08/26/21 02:22	WB
Trichloroethene	ND		$ug/m^3$	1.10	0.28	1	08/26/21	08/26/21 02:22	WB
Trichlorofluoromethane (Freon 11)	2.42		$ug/m^3$	1.10	0.28	1	08/26/21	08/26/21 02:22	WB
1,2,4-Trimethylbenzene	0.25	J	$ug/m^3$	0.98	0.25	1	08/26/21	08/26/21 02:22	WB
1,3,5-Trimethylbenzene	ND		$ug/m^3$	0.98	0.25	1	08/26/21	08/26/21 02:22	WB
2,2,4-Trimethylpentane	0.28	J	$ug/m^3$	0.93	0.23	1	08/26/21	08/26/21 02:22	WB
Vinyl acetate	ND		ug/m³	0.70	0.70	1	08/26/21	08/26/21 02:22	WB
Vinyl bromide	ND		$ug/m^3$	0.87	0.22	1	08/26/21	08/26/21 02:22	WB
Vinyl chloride	ND		$ug/m^3$	0.51	0.13	1	08/26/21	08/26/21 02:22	WB
o-Xylene	0.35	J	$ug/m^3$	0.87	0.22	1	08/26/21	08/26/21 02:22	WB
m- & p-Xylenes	0.83	J	ug/m³	1.70	0.43	1	08/26/21	08/26/21 02:22	WB
Surrogate: 4-Bromofluorobenzene		7.	B-115	101 %	08/26/21	!	08/26/21 02:22		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sam Hamner, Senior Chemist



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1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

**Reported:** 08/31/21 14:22

**Project: AC SATELLITE** 

Project Number: [none]
Project Manager: Amber Confer

## **Notes and Definitions**

L	Analyte is a	possible	laboratory	contaminant
L	Amaryte is a	possible	iauuiaiuiy	Comaminan

J Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).

E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered

an estimate (CLP E-flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

%-Solids Percent Solids is a supportive test and as such does not require accreditation

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sam Hamner, Senior Chemist



## Chain of Custody Form for Subcontracted Analyses

Page 1 of 1

Phase Separation So 6630 Baltimore Nat Baltimore, MD 212 Phone: (410) 747-8 Fax: (410) 788-872 For Questions or	ional Pike 28 770	mber Confer	Proje Proje <b>Rep</b> e	ect Number : ort To LOD	21082410 Alexandria, VA N/A : No rue On :09/01/21 05:00	Mary	oles Transferred To: land Spectral Service Caton Center Drive more, MD 21227 e: 410-247-7600	ces, Inc. e, Suite G	1944
Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative	27
21082410-001	CO-Blevator Lobby	08/20/21	16:14	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON	- 0
21082410-002	CO-Satellite Campus	08/20/21	16:05	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON	-02
21082410-003	CO-210-4A Class	08/20/21	16:03	Air	VOCs in Air by GC/MS (subbed)	TO-15	Air Canister	NON	- 0 3
21082410-004	CO-230-1A Office	08/20/21	16:08	Air	VOCs in Air by GC/MS (subbed)	TO-15 Air Canister NON		NON	- 04
21082410-005	CO-Cafe	08/20/21	16:10	Air	VOCs in Air by GC/MS (subbed)	TO-15	TO-15 Air Canister NON		- 0
Send Repor	erables Required:  t Attn: reporting@ Ca	phaseonline.co	E		· · · · · · · · · · · · · · · · · · ·	~ ~	nvoicing@phaseo	nline.com	
Samples Relinquish	ned By :	Date :	T	`ime:	Samples Received By :				
Samples Relinquish	ned By:	Date : 0/1	<u>5/ん</u> 1 1	Гіте : <u>    :  </u>	Samples Received By: Lori	Foster		•	
Samples Relinquish	ed By:	Date:		Time:	Samples Received By:				

Client Contact Information		Project Ma	Project Manager Arabe Confer	1000	37.00	Carrier:								of .	, 2003
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		Site Contact:	ct												
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PO#		Rush (Specify)	cify)	-											
Client Sample ID	Sample Date Start	Time Start (24 hr clock)	Sample Date Stop	Time Stop (24 hr dock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Fleid ("Hg):∵ (Slop)	Incoming Canister Pressure ("Hg) (Lab)	Sample Regutator ID Can ID		Can Size (L)	TO-15 FULL 1	IdmA / toobril Soll Gas / Sui		ejnam <del>m</del> oD	
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TO-15\_COC.xls



## **Case Narrative**

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

Project Name: A.C. Satellite
PSS Project No.: 21082410

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:**

Stop date not recorded on COC; flow controllers provided were for 8 hour sampling period. End date of 8/20/21 used.

Incoming pressures not taken at PSS; samples subbed out. Incoming pressures will be taken at subcontracted lab.

21082410: Analyses associated with analyst code 4010 were performed by Maryland Spectral Services, Inc., 1500 Caton Center Drive, Suite G, Baltimore, MD 21227 - VA 460156

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

EPA TO-15: 1,2-Dichlorotetrafluoroethane, Chloroethane, Dibromochloromethane



## Lab Chronology

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

Project Name: A.C. Satellite
PSS Project No.: 21082410

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
<b>EPA TO-15</b>	CO-Elevator Lobby	Initial	21082410-001	A	187016	187016	08/24/2021 15:56	08/24/2021 15:56
	CO-Satellite Campus	Initial	21082410-002	A	187016	187016	08/24/2021 15:56	08/24/2021 15:56
	CO-210-4A Class	Initial	21082410-003	A	187016	187016	08/24/2021 15:56	08/24/2021 15:56
	CO-230-1A Office	Initial	21082410-004	A	187016	187016	08/24/2021 15:56	08/24/2021 15:56
	CO-Cafe	Initial	21082410-005	A	187016	187016	08/24/2021 15:56	08/24/2021 15:56

## 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

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	CONTA	ст:	EMA	IL:			3		Canister Pressure in field ("Hg) Start	Canister Pressure in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	slab	nt Air			
١	PROJE	CT NAME:	1 1 10	PROJECT#:	V			Sample Reg. ID	Press ) Star	Press Stop	Canis ("Hg)	Soil Gas / Subslab	ndoor/Ambient Air	TO-15 Full List	ist	
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	SAMPL	ER(S):				•	Can ID	San	Car	Car	Pre	Soil	ī	ρ̈́	Spe	REMARKS
Q	PSS ID	SAMPLE IDENTIFICATION	DATE START	Time Start (24hr clock)	DATE STOP	Time Stop (24hr clock)							/			
1	1	CO- Elevetor Colly	8/20/21	938		1614	3054	04685	30x	6						
	2	(O-Satellite Compus	11	1012		1605	3679	04717	30	10.5						
-	3	CO-ZID-4A Class	11	1017		1603	9613	04704	30+	13						- 4
	4	CO-230-14 Office	10	1026		1608	10185.	05607	29	0						- 100
	5	O-Cefe	11	1030		16/6	10184	10232	30+	10						,
ł																- 12
1							•									
ı																
						,										
5	1	uished By: (1)	Date 8/24/21	Time 3:40 <	Received By:	Mh	4	Reques 5-Day Next Day	sted TAT	( <b>One TA</b> -Day mergen	T per CC	C) 2-Day Other			oing Ca	
		uished By (2)	Date	Time	Received By:			Data Delivera							8/24	181
	Relinq	uished By: (3)	Date	Time	Received By:			Special Instr	uctions:							
	Relinquished By: (4)  Date  Time  Received By:										a				•	

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.



## **Sample Receipt Checklist**

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

Project Name: A.C. Satellite PSS Project No.: 21082410

Client Name Total Environmental Concepts - Lort Received By Thomas Wingate

**Delivered By** Client

Tracking No Not Applicable

Logged In By Thomas Wingate

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>Not Provided</u>

COC agrees with sample labels?

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

Holding Time Total No. of Samples Received 5

All Samples Received Within Holding Time(s)? Yes Total No. of Containers Received 5

**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



## **Sample Receipt Checklist**

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

Project Name: A.C. Satellite PSS Project No.: 21082410

Client Name Total Environmental Concepts - Lorto Received By Thomas Wingate

**Delivered By** Client

Tracking No Not Applicable

Logged In By Thomas Wingate

## 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.

Stop date not recorded on COC; flow controllers provided were for 8 hour sampling period. End date of 8/20/21 used.

Incoming pressures not taken at PSS; samples subbed out. Incoming pressures will be taken at subcontracted lab.

Samples Inspected/Checklist Completed By:	Thomas Wingate	Date: 08/24/2021
PM Review and Approval:	•	Date: 08/24/2021

## 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 ~ (800) 932-9047

PSS CLIENT: A.C. CKITE/// TE		OFFICE LOCATION:			PSS Work Order #	Order #:	30	7	PAGE	5			
BILL TO (if different):	РНО	PHONE #:			7	01689110							
CONTACT:	EMAIL:	· :			~		25		qeT				
PROJECT NAME:	4	PROJECT#:			9	GI .gə	ressu Start	ressu Stop	I (gH")	nəidm	tsiJ II	ts	
SITE LOCATION:		P.O. #			ال	Ple R	(6H")	(6H")	saure		n∃ ∂l	ial Li	
SAMPLER(S):				7.4	Can	meS	bləñ	bləñ	Pres		-OT		REMARKS
PSS ID SAMPLE IDENTIFICATION	DATE	Time Start (24hr clock)	DATE STOP	Time Stop (24hr clock)							,,		
(O-Elevetor Lolda,	02			1614	3054	24689	785	ی					
2 (B-5.411)te Camps	1	1012		1605	5679	4比加	35	10.5		4		1	
3 (CD-210-4A Class	11	4101		1603	2196	40440	30+	13					
4 (D-230-14 OFFice	) /	9701		1608	10185	D5607	29	0					
5 (B-C. Fe	)/	1030		16/6	H8101	25201	1 +CE	10					
					•								
Pethoquished By: (1)	Date (7)	Time	Received By:		4)=	Reques	Requested TAT (One TAT per COC) 5-Day Not Day	ne TAT po			Shippir	Shipping Carrier:	1310
Relinquished By (2)	Date	Time	Received By		9.		ables Requ	ired:			1 00	-	\$
Relinquished By: (3)	Date	Time	Received By:			Special Instructions:	actions:						
Relinguished By: (4)	Date	Tigo	Received Bv.										

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.: 21082527

September 3, 2021

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

Reference: PSS Project No: 21082527

Project Name: ACPS IAQ Testing Project Location: AC Satellite Campus

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) 21082527.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on September 29, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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

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

Sincerely,

**Dan Prucnal**Laboratory Manager





## **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.: 21082527

## **Project ID: 4920002**

The following samples were received under chain of custody by Phase Separation Science (PSS) on 08/25/2021 at 05:35 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected	
21082527-001	CO- Elevator Lobby	AIR	08/20/21 00:00	
21082527-002	CO- Satellite Campus	AIR	08/20/21 00:00	
21082527-003	CO- 2104A Class	AIR	08/20/21 00:00	
21082527-004	CO- 230-1A Office	AIR	08/20/21 00:00	
21082527-005	CO- Cafe	AIR	08/20/21 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.

## Standard Flags/Abbreviations:

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

## **Certifications:**

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



Ms. Amber Confer Phase Separation Science, Inc. 6630 Baltimore National Pike Baltimore, MD 21228 September 02, 2021

Account# 15354 Login# L545277

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on August 27, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

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

Sincerely,

SGS Galson

Lisa Swab Laboratory Director

Lisa Luab

Enclosure(s)



## ANALYTICAL REPORT

Account : 15354 Login No.: L545277

## **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 <a href="http://www.sgsgalson.com">http://www.sgsgalson.com</a> 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 in2 - Square Inches ng - Nanograms



LABORATORY ANALYSIS REPORT

## GALSON

Client : Phase Separation Science, Inc. Site : AC SATELLITE CAMPUS Project No. : ACPS IAQ TESTING-4920002

6601 Kirkville Road East Syracuse, NY 13057

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

(315) 432-5227

Date Sampled : 20-AUG-21 Date Received : 27-AUG-21

Login No. : L545277

Date Analyzed : 31-AUG-21

Report ID : 1262678

Account No.: 15354

## Formaldehyde

wdd	<pre>&lt;0.01 &lt;0.01 &lt;0.01 </pre>	<0.01 <0.01
Conc mg/m3	<pre></pre>	<0.01 <0.02
Total ug	0 > > 4 4	<0.4 <0.4
Time minutes	247 231 232	226 222
<u>Lab ID</u>	L545277-1 L545277-2 L545277-3	L545277-4 L545277-5
Sample ID	CO-ELEVATOR LOBBY CO-SATELITE CAMPUS CO-2104A CLASS	CO-230-1A OFFICE CO-CAFE

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

Approved by: NKP		
Submitted by: JLL	: 02-SEP-21	or : MWJ
Submitte	Date	Supervisor
on: 0.4 ug	: mod. OSHA 1007; HPLC/UV	: Assay 581
Level of Quantitation: 0.4 ug	Analytical Method	Collection Media

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Version 1.000



LABORATORY FOOTNOTE REPORT

## GALSON

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

Client Name : Phase Separation Science, Inc. Site : AC SATELLITE CAMPUS Project No. : ACPS IAQ TESTING-4920002

Date Sampled : 20-AUG-21 Date Received: 27-AUG-21 Date Analyzed: 31-AUG-21

Login No. : L545277 Account No.: 15354

L545277 (Report ID: 1262678):

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 1-5). SOPS: LC-SOP-4(23)

ID: 1262678): L545277 (Report

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.

Mean Recovery Accuracy Parameter

+/-12.1%

Formaldehyde

Page 6 of 11

Version 1.000

# 1752801/

1757

22313E40165461239 late:08/27/21

Initials:BGF Shipper: UPS

ore National Pike Phase Separation Science

MD 21228

Client 

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

Prep:UNKNOWN

www.sgsgalson.com

Email address: reporting@phaseonline.com

6630 Baltimor	rt No.*: Baltimore, MD	0778 777 077 8770	Phone No. : 410-141-0110	Cell No.:	Email Results to : Amber Confer
New Client?	lient Account No.*:				22/

Invoice To*: Phase Separation Science	
	1

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

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

Samples submitted using the FreeSamplingBadges<sup>TM</sup> Program

Samples submitted using the FreePumpLoan<sup>TM</sup> Program

Hexavalent Chromium Process (e.g., welding Cal OSHA PD5433 PD5283 mod. OSHA 1007: TPLC/UV PD5424 mod. OSHA 1007: TPLC/JUV PD5499 mod. OSHA 1007: TPLC/UV PD4488 mod. OSHA 1007: TPLC/UV mod. OSHA 1007: TPLC/UV mod, OSHA 1007: TPLC/UV mod, OSHA 1007; TPLC/UV mod. OSHA 1007: TPLC/UV Method Reference<sup>A</sup> mod, OSHA 1007; TPLC/UV mod. OSHA 1007: TPLC/UV mod, OSHA 1007; TPLC/UV Other (specify): ☐ MSHA Sampled by: Analysis Requested\* State samples were collected in (e.g., NY) Project: ACPS IAQ testing - 4920002 Formaldehyde ≶ Sample Units\*: L, m!,min,in2,cm2,ft2 List description of industry or Process/interferences present in sampling area: min min m: min Tin min min ᆵ min min Sample Volume Sample Time Sample Area\* atellite compas 243 226 222 232 231 Assay N581 Adehyde Badge Assay N581 Aldehyde Badge Collection Medium Public grade school building V Date Sampled 08/20/21 08/20/21 08/20/21 08/20/21 08/20/21 Site Name: Comments (surcharge) 100% 150% 200% 35% 75% 20% % Sample Identification\* (Maxmlum of 20 Characters) CO- Elevator Lobby CO-Satelite Campus CO-230-1A Office Next Day by Noon 2 Business Days Same Day Next Day by 6pm 4 Business Days 3 Business Days Standard CO-2104A Class Need Results By: CO-CAFE

Agalson Laboratories will substitute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: V 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):

Print Name/Signature Time For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)\*: Date

Chain of Custody Relinquished by: Relinquished by:

Time 1126

ᢐ

Page\_

12/12/8 And die Date

> () rumul Dail. \* Required 1814s, failure to expect the transfer of the constant in a delay in Koursamples being processed. Brett Grenert-Fischer Samples received after 3pm will be considered as next day's business Received by: Received by: Print Name/Signature

Page 7 of 11

# Chain of Custody Form for Subcontracted Analyses



		4	20		Preservative	NON	NON	NON	NON	NON		 ıline.com		·	dus 8/27/21			
Samples Transferred To: SGS North America - NY	6601 Kirkville Road	East Syracuse, NY 13057	Old SGS Galson Labs. bsc Phone: 215, 427, 5227	1776-764-016	Type of Container	NONSC	NONSC	NONSC	NONSC	NONSC		invoicing@phaseonline.com			4 Burul - Sie			
Samp	1099	East	old S Phon		Method	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS	Samula .				Brett Grenert-Fischer But Burut - Thedan 8/27/21			
	W.O. No.: 21082527 AC Satellite Campus	r: 4920002	D: No	Report Due On:09/03/21 05:00	Analyses Required	Formaldehvde (mod. OSHA 1007; HPLC/UV)	Formaldehyde (mod. OSHA 1007; HPLC/UV)	· olumoS no D O man 3 a	Feriorin Q.C. of			Samples Received By : Brett Grei	Samples Received By:	Samples Received By:				
	W.O. No.:	Project Number: 4920002	Report To LOD: No		Time		00:00	00:00	00:00	00:00	-		ine.com U/S		Sholl Time:	Time:	Time:	
980	Science, Inc	National Pike	7-8770 8723	ray. (*15.)	Field Date	Sample ID	CO- Elevator Lobby	CO- Satellite Campus	CO-2104A Class	CO-230-1A Office	00/20/21	Data Deliverables Required: COA	Send Report Attn: reporting@phaseonline.com	Condition Upon Receipt:	Comments:	inquished By: Le Date:		Samples Relinquished By:
Service and servic	Phase Separation Science, Inc	6630 Baltimore National Pike Raltimore, MD 21228	Phone: (410) 747-8770	run. (are) run.	For Questions	Sample ID	21082527-001	21082527-002	21082527-003	21082527-004	21082527-005	Data De	Send Re	Condition Up	Comments:	Samples Rel	Samples Rel	Comples Re

Page 6 of 6 Report Reference:1 Generated:02-SEP-21 12:09

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of 11

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.: 21082527

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.

21082527: 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	ALSON	New Client? F	Report To*:	Report To*: Phase Separation Science 6630 Baltimore National Pike Baltimore, MD 21228	cience onal Pike 8	Invoice To	Invoice To*: Phase Separation Science	aration Scie	eou
6601 Kirkville Rd East Syracuse, NY 13 Tel: (315) 432-5227 888-432-LABS (5 www.sgsgalson.com	6601 Kirkville Rd East Syracuse, NY 13057 Tel: (315) 432-527 888-432-LABS (5227) www.sgsgalson.com		Phone No.*:410-747-8770 Cell No.: Email Results to:Amber Confer Email address:reporting@pha	Phone No.*: 410-747-8770  Cell No.: nail Results to: Amber Confer  Email address: reporting@phaseonline.com	ne.com	]	Phone No.: 410-747-8770  Email:invoicing@phaseonline.com P.O. No.:	aseonline.com	it Card Info.
Need Results By:	rge)		2	Samples submitted usi	Samples submitted using the FreePumpLoan <sup>TM</sup> Program		Samples submitted using the FreeSamplingBadges <sup>™</sup> Program	eeSamplingBadges	Tw Program
Standard 4 Business Days	35%	Somments:	Sate 11 16	James 1	Project: ACLO IAC G	ı	led by :		
3 Business Days									
2 Business Days	75%								
	100% L	ist description of ind	List description of industry or Process/interferences present in sampling area :	rences present in samp	ling area :		which	n OEL this data will	be used for:
Next Day by Noon	150%	Public grade s	Public grade school building			collected in (e.g., NY)	OSHA PEL OSHA MSHA	_ ACGIH TLV ]Other (specify):	Cal OSHA
Sample Identification* (Maxmium of 20 Characters)	ation* racters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, mł,min,in2,cm2,ft2	Analysis Requested*		Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
CO- Elevator Lobby	X.	08/20/21	Assay N581 Aldehyde Badge	2.47	min	Formaldehyde	рош	mod. OSHA 1007: TPLC/UV	PD5433
CO-Satelite Campus		08/20/21	Assay N581 Aldehyde Badge	231	min	Formaldehyde	рош	mod. OSHA 1007: TPLC/UV	PD5424
CO-2104A Class		08/20/21	Assay N581 Aldehyde Badge	232	min	Formaldehyde	шор	mod. OSHA 1007: TPLC/UV	PD5499
CO-230-1A Office		08/20/21	Assay N581 Aldehyde Badge	226	min	Formaldehyde	pom	mod. OSHA 1007; TPLC/UV	PD4488
CO-CAFE		08/20/21	Assay N581 Aldehyde Badge	222	min	Formaldehyde	рош	mod. OSHA 1007: TPLC/UV	PD5283
			Assay N581 Aldehyde Badge		min	Formaldehyde	рош	mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge		min	Formaldehyde	pom	mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge		min	Formaldehyde	pom	mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge		min	Formaldehyde	pom	mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge		min	Formaldehyde	pom	mod. OSHA 1007: TPLC/UV	
			Assay N581 Aldehyde Badge		min	Formaldehyde	pom	mod. OSHA 1007: TPLC/UV	
^Galson Laboratories will s	subsititute our ro	outine/preferred meth	od if it does not match	the method listed on th	e COC unless this box is	Agalson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: 🖊 Use method(s) listed on COC	listed on COC		
For metals analysis: if requ	esting an analyte	e with the option of a	lower LOQ, please indi	icate if the lower LOQ is	required (only available	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):	3):		
For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*	s) of silica neede	d must be indicated (	(Quartz, Cristobalite, an	nd/or Tridymite)* :					
Chain of Custody	Print	Print Name/Signature	П	Ţ		Print Name/Signature	/Signature	Date	e Time
Relinquished by:	)	went	218	SELI MENS	Received by :	ar ye	2		
Relinquished by :	e de la	3	\$		Received by:				-
		*	Samples * Required fields, failure		received after 3pm will be considered as next day's business to complete these fields may result in a delay in your sample	received after 3pm will be considered as next day's business to complete these fields may result in a delay in your samples being processed.	g processed.	Pa	Page of
					20 40 of 44	Weight 4 000	4 000		



## 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.: 21082527

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>Not Provided</u>

COC agrees with sample labels?

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

Holding Time Total No. of Samples Received 5

All Samples Received Within Holding Time(s)? Yes Total No. of Containers Received 5

**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 I longer	Date: 08/26/2021
	Amber Confer	

PM Review and Approval:

Lynn Jackson
Page 11 of 11

Date: 08/26/2021

Version 1.000

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	 lo.:				
Tel: (315) 4	32-5227		Cell No. :					Fma	lo.: ail :				
888-43	2-LABS (5227)							P.O. N	0.:				
www.sgsga	www.sgsgalson.com Email address:									le 🗆	Call for Cred	dit Card Ir	nfo.
			_										
Need Results By:	(surcharge)			Samples subn	nitted usin	g the FreePumpLoan <sup>™</sup>	Program	Samples s	submitted 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.,	NY)	OSHA PEL	_		Cal (	DSHA
Same Day	200%								MSHA	Other (	specify):		
Sample Identifi (Maxmium of 20 Cl		Date Sampled	Collection Medium	Sample \ Sample Sample	Sample Units*: L, ml,min,in2,cm2,ft2	Ana	alysis Reque	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: Us	se method(s	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 analyt	tes - 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			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.: 21082526

September 3, 2021

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

Reference: PSS Project No: 21082526

Project Name: ACPS IAQ Testing Project Location: AC Satellite Campus

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) **21082526**.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on September 29, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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

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

Sincerely,

Dan Prucnal
Laboratory Manager





## **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.: 21082526

## **Project ID: 4920002**

The following samples were received under chain of custody by Phase Separation Science (PSS) on 08/25/2021 at 05:35 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected	
21082526-001	CO- Elevator Lobby	AIR	08/20/21 00:00	
21082526-002	CO- Satellite Campus	AIR	08/20/21 00:00	
21082526-003	CO- 210-4A-Class	AIR	08/20/21 00:00	
21082526-004	CO- 230-1A Office	AIR	08/20/21 00:00	
21082526-005	CO-Cafe	AIR	08/20/21 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.

## Standard Flags/Abbreviations:

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

## **Certifications:**

NELAP Certifications: PA 68-03330, VA 460156 State Certifications: MD 179, WV 303

Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015



Ms. Amber Confer Phase Separation Science, Inc. 6630 Baltimore National Pike Baltimore, MD 21228 September 02, 2021

Account# 15354 Login# L545225

**Dear Amber Confer:** 

Enclosed are the analytical results for the samples received by our laboratory on August 27, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

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

Sincerely,

**SGS Galson** 

Lisa Swab Laboratory Director

Lisa Luab

**Enclosure(s)** 



## ANALYTICAL REPORT

Account : 15354 Login No. : L545225

## **Terms and Conditions & General Disclaimers**

- This document is issued by the Company under its General Conditions of Service accessible at <a href="http://www.sgs.com/en/Terms-and-conditions.aspx">http://www.sgs.com/en/Terms-and-conditions.aspx</a>. 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 <a href="https://www.sgsgalson.com">www.sgsgalson.com</a>.
- 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 <a href="http://www.sgsgalson.com">http://www.sgsgalson.com</a> 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.sqsqalson.com

Client : Phase Separation Science, Inc. Account No.: 15354 : AC SATELLITE CAMPUS Site Login No. : L545225

Project No. : ACPS IAQ TESTING-4920002

Date Sampled : 20-AUG-21 Date Analyzed : 31-AUG-21 Date Received : 27-AUG-21 Report ID : 1262965

## 4-Phenylcyclohexene (4PCH low LOQ)

Sample ID	Lab ID	Air Vol liter	Front uq	Back uq	Total <u>uq</u>	Conc mg/m3	
CO-ELEVATOR LOBBY	L545225-1	49.4	<0.2	<0.2	<0.2	<0.004	<0.0006
CO-SATELLITE CAMPUS	L545225-2	46.2	<0.2	<0.2	<0.2	<0.004	<0.0007
CO-210-4A CLASS	L545225-3	46.4	<0.2	<0.2	<0.2	<0.004	<0.0007
CO-230-1A OFFICE	L545225-4	45.2	<0.2	<0.2	<0.2	<0.005	<0.0007
CO-CAFE	L545225-5	44.44	<0.2	<0.2	<0.2	<0.005	<0.0007

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

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

Analytical Method : mod. NIOSH 1501; GC/PID Date : 02-SEP-21

Collection Media : 226-01 Supervisor : KAG





## **GALSON**

Client Name : Phase Separation Science, Inc.

Site : AC SATELLITE CAMPUS
Project No. : ACPS IAQ TESTING-4920002

Date Sampled: 20-AUG-21 Account No.: 15354
Date Received: 27-AUG-21 Login No.: L545225

Date Analyzed: 31-AUG-21

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

6601 Kirkville Road

East Syracuse, NY 13057 (315) 432-5227

L545225 (Report ID: 1262965):

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

L545225 (Report ID: 1262965):

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 lasa 100)	. / 100	00.28
4-Phenylcyclohexene (4PCH low LOQ)	+/-18%	88.2%

Z2313E40165461239 ate:08/27/21			54522	<u> 25</u>	2109	52524							
hipper:UPS nitials:BGF	1 <b>6</b> 4	New Client?	663	30 Baltim	ore Natio	nal Pike	Invoice To	*: <u>Phase S</u>	eparati	ion Scie	∍nce		
	# 11   BB))	Client Account N	No.*: Bat —	timore, Iv	AD 21228								
East Syracuse,		60	Phone No.* : 410	)-747 <b>-</b> 877	<b>′</b> 0		Phone N	Phone No.: 410-747-8770					
Tel: (315) 432- 888-432-L	2-5227 LABS (5227)	(85)	Cell No. :					il : <u>invoicing@</u>	phaseor	nline.com			
Email H			Email Results to : Am				P.O. N						
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Email address: rep	orting@p	haseonun	ne.com	Credit Car	d : Card on Fi	le 🔲	Call for Cred	dit Card Ir	nfo.	
<del></del>	(surcharge)	40.00		Samples sub		ng the FreePumpLoan™		ubmitted using th	e FreeSam	plingBadge	s™ Progra	ım	
Standard Standard			Name: AC Satellite Campus Project: ACPS IAQ testing - 4920002 Sampled by:										
4 Business Days 3 Business Days	35% 50%	Comments:											
2 Business Days	75%												
Next Day by 6pm		List description of ind	escription of industry or Process/interferences present in sampling area : State samples were Please indicate which OEL this date										
Next Day by Noon	150%	Public grade s	school				collected in (e.g., NY)	The second second					
Same Day	200%	Fubile grade 3	IDIIC Grade SCHOOL AIL NE) BEE & 127121 VA MSHA Other (specify):										
Sample Identificati (Maxmlum of 20 Chara		Date Sampled	Collection Medium	Sampl	Sample Volume Sample Units*: Sample Time Sample Area*  Analysis Requested*				Method F	Reference^	Process (	nt Chromium e.g., welding ainting, etc.)*	
CO - Eleviator Lob	·РÀ	08/20/21	Sm Charcoal tubes / 226-01	49.:A		L	4-Phenylcyclohexene		mod. NIC	OSH 1501			
CO - Satellite Campus	s	08/20/21	Sm Charcoal tubes / 226-01	46.2		L	4-Phenylcyclohexene		mod. NIC	OSH 1501			
CO - 210-4A Class		08/20/21	Sm Charcoal tubes / 226-01	46.4		L	4-Phenylcyclohexene		mod. NIC	OSH 1501			
CO - 230-1A Office		08/20/21	Sm Charcoal tubes / 226-01	45.2		L	4-Phenylcyclohexene		mod. NIC	OSH 1501			
CO - Cafe		08/20/21	Sm Charcoal tubes / 226-01	44.44		L	4-Phenylcyclohexene		mod. NIC	OSH 1501			
			Sm Charcoal tubes / 226-01			L	4-Phenylcyclohexene		mod. NIC	OSH 1501			
			Sm Charcoal tubes / 226-01			L	4-Phenylcyclohexene	··········	mod. NIC	OSH 1501			
			Sm Charcoal tubes / 226-01			L	4-Phenylcyclohexene		mod. NIC	OSH 1501			
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			Sm Charcoal tubes / 226-01			L	4-Phenylcyclohexene		mod. NIC	OSH 1501			
******			Sm Charcoal tubes / 226-01			L	4-Phenylcyclohexene		mod. NIC	OSH 1501			
^Galson Laboratories will su	ubsititute our	routine/preferred meth	nod if it does not match	the method	listed on the	e COC unless this box is	s checked: V Use method(s	) listed on COC	l				
For metals analysis: if reque	asting an analy	yte with the option of a	lower LOQ, please indi	cate if the Ic	ower LOQ is	required (only available	e for certain analytes - see SA	G):					
For crystalline silica: form(s)	) of silica need	led must be indicated (	(Quartz, Cristobalite, an	ıd/or Tridym	iite)* :					· · · · · · · · · · · · · · · · · · ·			
Chain of Custody	Prir	nt Name/Signature	c	Date	Time			e/Signature		Dat	te	Time	
Relinquished by:						Received by :	Brett Grenert-Fisch	ier But h	unut -	Fischer		1126	
Relinquished by :						Received by :				8127	121		
		* Re	•		•		s next day's business delay in your samples beii	ng processed.		Р	'age	of	



Phase Separation Science, Inc

## Chain of Custody Form for Subcontracted Analyses

21082526

W.O. No.:

Page 1 of 1

Samples Transferred To:

SGS North America - NY

6630 Baltimore National Pike Baltimore, MD 21228 Phone: (410) 747-8770 Fax: (410) 788-8723					: AC Satellite Campus : 4920002		6601 Kirkville Road East Syracuse, NY 13057				
` ,	For Questions or issues please contact: Amber Confer				Die On :09/03/21 05:00	Old Phon	Old SGS Galson Labs. bsc Phone: 315-432-5227				
Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative			
21082526-001	CO- Elevator Lobby	08/20/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON			
21082526-002	CO- Satellite Campus	08/20/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON			
21082526-003	CO- 210-4A-Class	08/20/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON			
21082526-004	CO- 230-1A Office	08/20/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON			
21082526-005	CO-Cafe	08/20/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON			
	erables Required:				Perform Q.C.	-					
Send Repo Airbill No.:	rt Attn: reporting@	phaseonline.co	m ups		Send I	InvoiceAttn: i	nvoicing@phaseo	nline.com			
Condition Upon R	eceipt :				· ·		<del></del>	`			
Comments:											
	shed By: Allino			Time:		Grenert-Fischer	but Dunut - F	ischer 8/27/21			
	shed By:	•			Samples Received By:			1100			
Samples Relinquis	shed By:	Date:		Γime:	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.: 21082526

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.

21082526: 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.

## 21082526

SGS G	ALSO	New Client?	Report To* : Ph		aration So ore Natio		Invoice T	Invoice To*: Phase Separation Science						
000	IALOUI	Client Account I			<del>/ID 2122</del> 8		ABOUT 1000000							
6601 Kirkvil East Syracu	le Rd ise, NY 13057		Phone No.* : 41	0-747-877	70		Phone N	Phone No.: 410-747-8770						
Tel: (315) 4 888-43:	32-5227 2-LABS (5227)		Cell No. :											
		E	mail Results to : An											
www.sgsga	iison.com		Email address: rep	orting@p	haseonlin	ie.com	Credit Ca	Credit Card : Card on File Call for Credit Card Info.						
		I		Samples su	bmitted usin	g the FreePumpLoan™	Program Samples	submitted using th	ne FreeSamplingBadg	es™ Progra	m			
Need Results By:	(surcharge)	Site Name : AC Sa	tallita Campus		Dro	ject : ACPS IAQ te	sting - 4920002 same	pled by :						
Standard  4 Business Days	35%		tellite Campus		Pro	ject: AUI U IAQ te	3th g - 4320002 3am	pied by .						
3 Business Days	50%	Comments :												
2 Business Days	75%													
Next Day by 6pm	100%	List description of ind	lescription of industry or Process/interferences present in sampling area : State samples were Please indicate which OEL this data will be us											
Next Day by Noon	150%	Public grade s	school				collected in (e.g., NY)		ACGIH TLV	Cal C	SHA			
Same Day	200%	Fublic grade s				VA	MSHA	Other (specify):						
Sample Identifi (Maxmium of 20 Cl						Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requ	ested*	Method Reference^	Process (e	nt Chromium e.g., welding ainting, etc.)*			
CO - Elevator La	ob by	08/20/21	08/20/21 Sm Charcoal tubes / 226-01 49.4						mod. NIOSH 1501					
CO - Satellite Camp	ous	08/20/21	Sm Charcoal tubes / 226-01	46.2		L	4-Phenylcyclohexene		mod. NIOSH 1501					
CO - 210-4A Class		08/20/21	Sm Charcoal tubes / 226-01	46.4		L	4-Phenylcyclohexene		mod. NIOSH 1501	4				
CO - 230-1A Office		08/20/21	Sm Charcoal tubes / 226-01	45.2		L	4-Phenylcyclohexene mod. NIOSH 1501							
CO - Cafe		08/20/21	Sm Charcoal tubes / 226-01	44.44		L	4-Phenylcyclohexene mod. NIOSH 1501							
			Sm Charcoal tubes / 226-01			L	4-Phenylcyclohexene	4-Phenylcyclohexene mod. NIOSH 1501						
			Sm Charcoal tubes / 226-01			L	4-Phenylcyclohexene		mod. NIOSH 1501					
			Sm Charcoal tubes / 226-01			L	4-Phenylcyclohexene		mod. NIOSH 1501					
			Sm Charcoal tubes / 226-01			L	4-Phenylcyclohexene		mod. NIOSH 1501					
			Sm Charcoal tubes / 226-01			L	4-Phenylcyclohexene		mod. NIOSH 1501					
			Sm Charcoal tubes / 226-01			L	4-Phenylcyclohexene		mod. NIOSH 1501					
^Galson Laboratories wil	Il subsititute ou	r routine/preferred metl	nod if it does not match	the method	l listed on th	e COC unless this box is	s checked: 🔽 Use method(:	s) listed on COC						
For metals analysis: if re-	questing an ana	lyte with the option of a	lower LOQ, please inc	licate if the I	ower LOQ is	required (only available	e for certain analytes - see SA	(G):						
For crystalline silica: form	n(s) of silica nee	eded must be indicated	(Quartz, Cristobalite, a	nd/or Tridyn	nite)*:			ii	,					
Chain of Custody								ne/Signature	D	ate	Time			
Relinquished by :	7	evt		5/21	1735		aren 40	5~						
Relinquished by :	ale	1 hope		26M		Received by:	a manda dan da barrelera ara		L.					
		* R	Sample equired fields, failur	s received e to compl	aπer 3pm v ete these f	wiii be considered as ields may result in a	s next day's business delay in your samples be	ing processed.		Page	of			



## **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.: 21082526

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>Not Provided</u>

COC agrees with sample labels?

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

Holding Time Total No. of Samples Received 5

All Samples Received Within Holding Time(s)? Yes Total No. of Containers Received 5

Preservation

10001 valion		
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 I longer	Date: 08/26/2021
	Amber Confer	

PM Review and Approval:

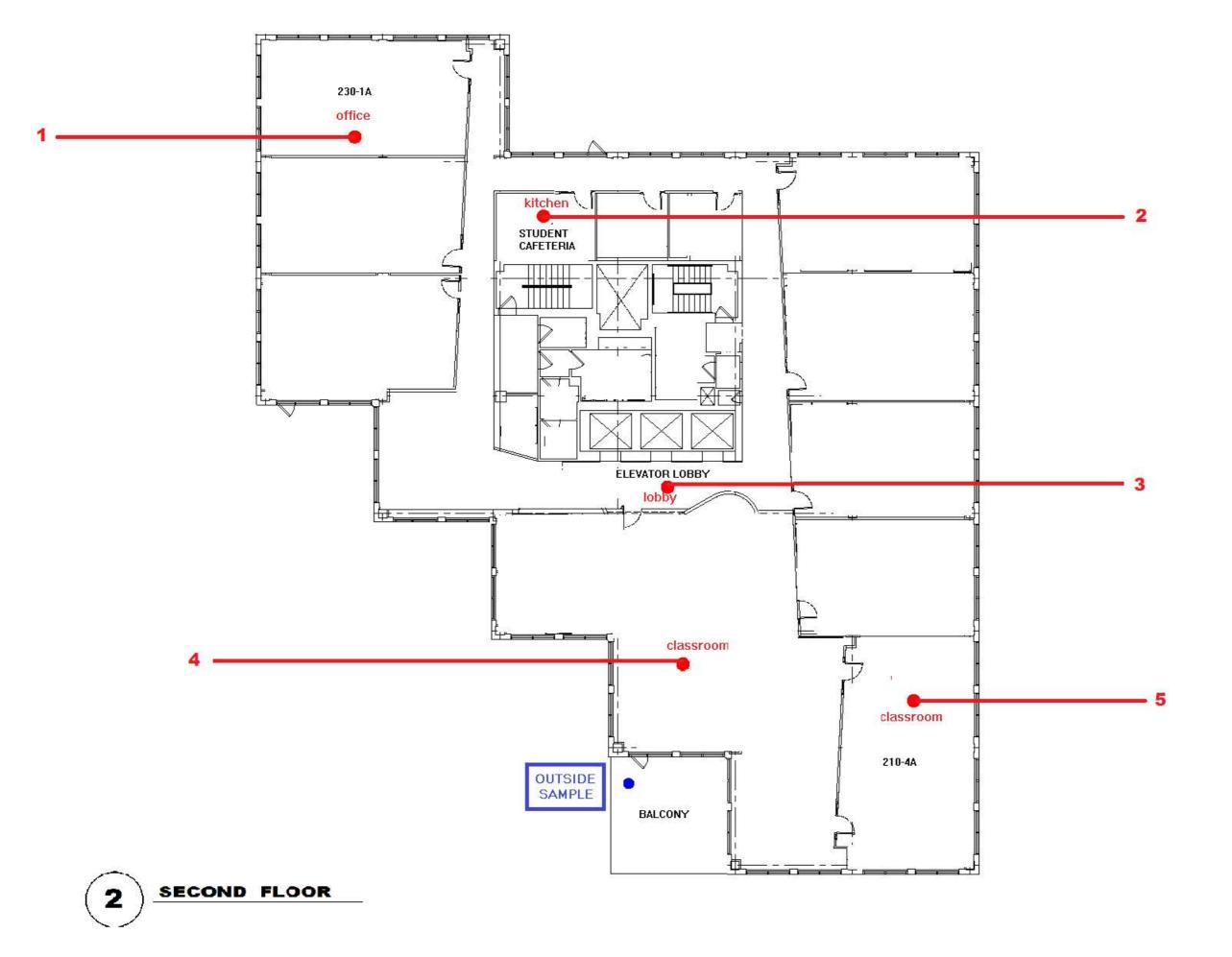
Lynn Jackson
Page 11 of 11

Date: 08/26/2021

Version 1.000

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	 lo.:				
Tel: (315) 4	32-5227		Cell No. :					Fma	lo.: ail :				
888-43	2-LABS (5227)							P.O. N	0.:				
www.sgsga	www.sgsgalson.com Email address:									le 🗆	Call for Cred	dit Card Ir	nfo.
			_										
Need Results By:	(surcharge)			Samples subn	nitted usin	g the FreePumpLoan <sup>™</sup>	Program	Samples s	submitted 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.,	NY)	OSHA PEL	_		Cal (	DSHA
Same Day	200%								MSHA	Other (	specify):		
Sample Identifi (Maxmium of 20 Cl		Date Sampled	Collection Medium	Sample \ Sample Sample	Sample Units*: L, ml,min,in2,cm2,ft2	Ana	alysis Reque	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: Us	se method(s	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 analyt	tes - 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			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







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

## ACPS Central Offices SATELLITE CAMPUS

1340 Braddock Road Alexandria, VA 22314





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

Phone: 703-567-4346 Fax: 703-567-3487





Central Offices, Lobby



Central Offices, Satellite Campus



Central Offices, 210-4A



Central Offices, 230-1A



Central Offices, Student Cafeteria