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

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

Indoor Air Quality Assessment Report

at

Cora Kelly School for Math, Science, and Technology

3600 Commonwealth Ave,
Alexandria, VA 22305

Report Prepared for:

John Contreras

Alexandria City Public Schools

2601 Cameron Mills Rd, Alexandria, VA 22302

Dated: October 14, 2021

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ABBREVIATIONS AND ACRONYMS

AHU	Air-Handling Unit
AIHA	American Industrial Hygiene Association
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
ASTM	American Society for Testing and Materials
CO	Carbon Monoxide
CO2	Carbon Dioxide
EMLAP	Environmental Microbiology Laboratory Accreditation Program
HVAC	Heating, Ventilating, And Air-Conditioning
IAQ	Indoor Air Quality
NIST	National Institute for Standards and Technology
NVLAP	National Voluntary Laboratory Accreditation Program
RH	Relative Humidity

Abbreviations involving scientific volume and measurements involving media or water sampling

Spores/m3	Mold spores per cubic meter of air
LPM	Liters Per Minute
NTE	Not to exceed
°F	degree Fahrenheit
PPM	Parts Per Million

1. Executive Summary

Total Environmental Concepts (TEC) was contracted by Alexandria City Public Schools (ACPS) to perform Indoor Air Quality (IAQ) assessments at 19 schools. Douglas MacArthur Elementary was out of service and assessed last.The original list included:

- Alexandria City High School (AC)
- AC Satellie 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 MacAurthur 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 Cora Kelly School for Math on Thursday, August 12, 2021. ACPS required that the testing to be based on the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) guidelines. ACPS provided site plans and fifteen (15) sampling locations per school. Only (12) samplng locations were provided for this location. ACPS chose sampling locations based on maintanance records and a review of facilities maintenance related issues. These sampling locations were selected to collect representative IAQ data in these specific areas and to document any areas of potential concern observed during the site assessment. ACPS required that TEC test for the following major indoor air pollutants:

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

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

- Carbon Monoxide
- Carbon Dioxide
- Humidity
- Temperature

- Oxygen

Summary of findings and recommendaitons during this limited IAQ investigation:

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

  Findings:

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

  Recommendations:

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

  None of the results from the twelve sampling locations at Cora Kelly Elementary School were indicative of mold issues.

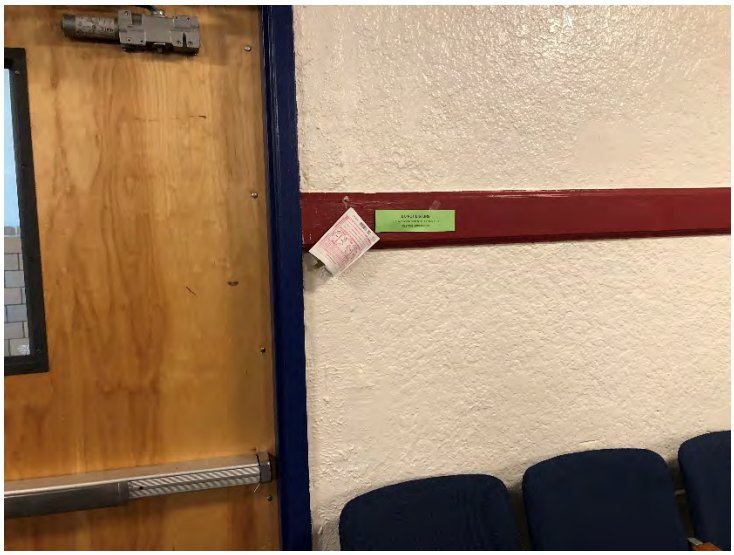
- **Radon** – levels recorded in all locations were less than 4pCi/L, as recommended by EPA and HUD.
- **VOCs** – The levels of volitile organic compounds (VOCs) recorded at each location were within acceptable ranges, when compared to EPA Regional Screening Levels (RSLs).
- **4-PCH** – levels recorded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

2. Assesment Methods

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

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

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



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

The 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 eight (8) hours or time weighted four (4) hour runs. 4-PCH analytical results can be found in Appendix E.

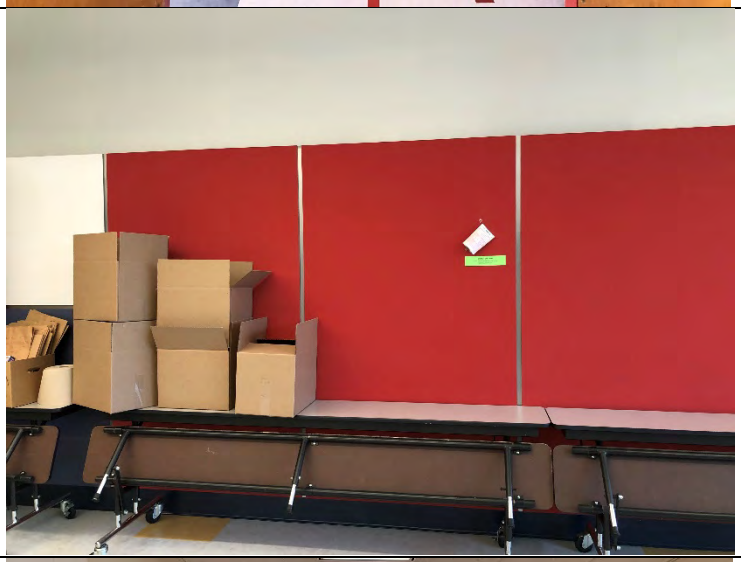
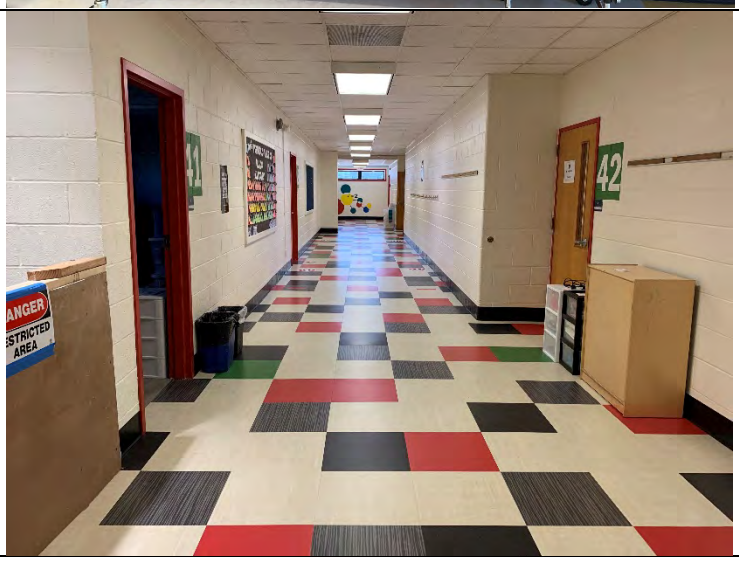
TO+15 (VOCs) samples were collected using ENTECH Instruments 1.4L SUMMA canisters with an ENTECH regulator attachment (photograph below). Canisters were deployed at each location for a run time of eight (8) hours or a time weighted run time of four (4) hours. Internal pressure readings were recorded 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. Teperature and relative humidity readings can be found in Section 5 Mold Sampling Results, below.

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

3. Visual Observations

Sample Location	August 12, 2021	Visual Observations
Classroom 11	TEC observed standard classroom materials in storage in classrooms 11 during sampling.	

Cafeteria	Entrance to the cafeteria of Cora Kelly.	
Cafeteria	TEC observed a portion of cafeteria materials were in storage during sampling.	
Second Floor Hallway	The second floor hallway of Cora Kelly which hosts rooms 38-46.	

4. Conditions for Human Occupancy

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

4.1 Temperature

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

4.2 Relative Humidity

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

4.3 Carbon Dioxide

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

4.4 Carbon Monoxide

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

4.5 Multi-gas Detector Readings

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

5. Mold Sampling Results

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

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

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

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

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

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

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

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

Findings:

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

Recommendations:

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

None of the results from the twelve sampling locations at Cora Kelly Elementary School were indicative of mold issues.

Mold analytical results can be found in Appendix A.

6. Radon Gas Sampling Results

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

7. Formaldehyde Gas Sampling Results

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

8. TO+15 (VOC) Sampling Results

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

9. 4-PCH Sampling Results

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

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

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

Table 1

Multi-Gas Detector Readings				
Location	VOC	CO	OXYGEN	H2S
Cafeteria	0.0	0.0	20.8	0.0
Media Center	0.0	0.0	20.8	0.0
40	0.0	0.0	20.8	0.0
Hallway 38/40 Stairs	0.0	0.0	20.8	0.0
Hallway 46	0.0	0.0	20.8	0.0
Office	0.0	0.0	20.8	0.0
8	0.0	0.0	20.8	0.0
11	0.0	0.0	20.8	0.0
Hallway 18	0.0	0.0	20.8	0.0
26	0.0	0.0	20.8	0.0
Hallway 20	0.0	0.0	20.8	0.0
29	0.0	0.0	20.8	0.0

Table 2

Results of Analytes by Location						
Location	Radon	Mold		TO+15 VOCs	4PCH	Formaldehyde
		AVG: 77 F	AVG: 62 %			
Cafeteria	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Media Center	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
40	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hallway 38/40 Stairs	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hallway 46	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Office	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
8	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
11	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hallway by 18	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
26	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
Hallway by 20	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL
29	< 4 pCi/L	Spore Count Normal		< RSL	< 6.5 ug/m3	< RSL

11. Quality Control Program

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

Appendix A: Mold Analytical Results

HAYES MICROBIAL CONSULTING

#21029733

Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road
Suite B
Lorton, VA 22079

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

Cora Kelly School for Math
3600 Common Wealth Ave

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

We would like to thank you for trusting Hayes Microbial for your analytical needs!
We received 14 samples by FedEx in good condition for this project on August 13th, 2021.

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

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

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

EPA Laboratory ID: VA01419

Lab ID: #188863

DPH License: #PH-0198

Gary Lewis
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8382 Terminal Road Suite B
Lorton, VA 22079
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Cora Kelly School for Math
3600 Common Wealth Ave

#21029733

Spore Trap
SOP - HMC#101

Sample Number	1	4318860		2	4318849		3	4318839		4	4318859	
Sample Name	**Cafeteria**			**Cafeteria**			**Media Center**			**40**		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m^3			13 spores/m^3			13 spores/m^3			13 spores/m^3		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	**Raw Count**	**Count / m^3**	**% of Total**	**Raw Count**	**Count / m^3**	**% of Total**	**Raw Count**	**Count / m^3**	**% of Total**	**Raw Count**	**Count / m^3**	**% of Total**
Alternaria												
Ascospores	2	27	50.0%	3	40	75.0%	2	27	100.0%	2	27	50.0%
Aspergillus|Penicillium												
Basidiospores				1	13	25.0%				1	13	25.0%
Bipolaris|Drechslera												
Chaetomium												
Cladosporium										1	13	25.0%
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes	1	13	25.0%									
Pithomyces	1	13	25.0%									
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	4	53	100%	4	53	100%	2	27	100%	4	53	100%

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

Collected: **Aug 12, 2021** Received: **Aug 13, 2021** Reported: **Aug 13, 2021**

Project Analyst: Ramesh Poluri, PhD P. Ramesh Date: **08 - 13 - 2021**

Reviewed By: Steve Hayes, BSMT Stephen N. Hayes Date: **08 - 13 - 2021**

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Cora Kelly School for Math
3600 Common Wealth Ave

#21029733

Spore Trap
SOP - HMC#101

Sample Number	5	4318854		6	4318845		7	4318828		8	4318823	
Sample Name	**Hallway 38/40 Stairs**			**Hallway by 46**			**P Office**			**8**		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m^3			13 spores/m^3			13 spores/m^3			13 spores/m^3		
Background	2			2			2			2		
Fragments	ND			ND			ND			ND		
Organism	**Raw Count**	**Count / m^3**	**% of Total**	**Raw Count**	**Count / m^3**	**% of Total**	**Raw Count**	**Count / m^3**	**% of Total**	**Raw Count**	**Count / m^3**	**% of Total**
Alternaria												
Ascospores	4	53	66.7%	3	40	75.0%	2	27	50.0%	2	27	100.0%
Aspergillus|Penicillium												
Basidiospores	1	13	16.7%									
Bipolaris|Drechslera												
Chaetomium												
Cladosporium	1	13	16.7%				1	13	25.0%			
Curvularia							1	13	25.0%			
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces				1	13	25.0%						
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	6	79	100%	4	53	100%	4	53	100%	2	27	100%

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

Collected: **Aug 12, 2021** Received: **Aug 13, 2021** Reported: **Aug 13, 2021**

Project Analyst: Ramesh Poluri, PhD P. Ramesh Date: **08 - 13 - 2021**

Reviewed By: Steve Hayes, BSMT Stephen N. Hayes Date: **08 - 13 - 2021**

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#21029733

Spore Trap
SOP - HMC#101

Sample Number	9	4318821		10	4318818		11	4318827		12	4318822	
Sample Name	11			Hallway by 18			26			Hallway by 20		
Sample Volume	75.00 liter			75.00 liter			75.00 liter			75.00 liter		
Reporting Limit	13 spores/m^3			13 spores/m^3			13 spores/m^3			13 spores/m^3		
Background	2			2			2			1		
Fragments	ND			ND			ND			ND		
Organism	**Raw Count**	**Count / m^3**	**% of Total**	**Raw Count**	**Count / m^3**	**% of Total**	**Raw Count**	**Count / m^3**	**% of Total**	**Raw Count**	**Count / m^3**	**% of Total**
Alternaria												
Ascospores	1	13	50.0%	4	53	80.0%	3	40	75.0%	1	13	100.0%
Aspergillus|Penicillium												
Basidiospores	1	13	50.0%	1	13	20.0%	1	13	25.0%			
Bipolaris|Drechslera												
Chaetomium												
Cladosporium												
Curvularia												
Epicoccum												
Fusarium												
Memnoniella												
Myxomycetes												
Pithomyces												
Stachybotrys												
Stemphylium												
Torula												
Ulocladium												
Total	2	26	100%	5	66	100%	4	53	100%	1	13	100%

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

Collected: **Aug 12, 2021** Received: **Aug 13, 2021** Reported: **Aug 13, 2021**

Project Analyst: Ramesh Poluri, PhD P. Ramesh Date: **08 - 13 - 2021**

Reviewed By: Steve Hayes, BSMT Stephen N. Hayes Date: **08 - 13 - 2021**

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Cora Kelly School for Math
3600 Common Wealth Ave

#21029733

Spore Trap
SOP - HMC#101

Sample Number	13	4318844		14	4318823	
Sample Name	29			Outside of Cafe		
Sample Volume	75.00 liter			75.00 liter		
Reporting Limit	13 spores/m³			13 spores/m³		
Background	2			2		
Fragments	ND			ND		
Organism	**Raw Count**	**Count / m³**	**% of Total**	**Raw Count**	**Count / m³**	**% of Total**
Alternaria				5	67	<1%
Ascospores	2	27	100.0%	224	2987	34.2%
Aspergillus|Penicillium				3	40	<1%
Basidiospores				160	2133	24.4%
Bipolaris|Drechslera				2	27	<1%
Chaetomium						
Cladosporium				256	3413	39.1%
Curvularia						
Epicoccum				2	27	<1%
Fusarium						
Memnoniella						
Myxomycetes				1	13	<1%
Pithomyces				1	13	<1%
Stachybotrys						
Stemphylium						
Torula				1	13	<1%
Ulocladium						
Total	2	27	100%	655	8733	100%

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

Collected: **Aug 12, 2021** Received: **Aug 13, 2021** Reported: **Aug 13, 2021**

Project Analyst: Ramesh Poluri, PhD P. Ramesh Date: **08 - 13 - 2021**

Reviewed By: Steve Hayes, BSMT Stephen N. Hayes Date: **08 - 13 - 2021**

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

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

Cora Kelly School for Math
3600 Common Wealth Ave

#21029733

Spore Trap Information

Reporting Limit	The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated.
Blanks	Results have not been corrected for field or laboratory blanks.
Background	The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows: **NBD:** No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD) **1 :** <5% of field occluded. No spores will be uncountable. **2 :** 5-25% of field occluded. **3 :** 25-75% of field occluded. **4 :** 75-90% of field occluded. **5 :** >90% of field occluded. Suggested recollection of sample.
Fragments	Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification.
Control Comparisons	There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments.
Water Damage Indicator Common Allergen Slightly Higher than Baseline Significantly Higher than Baseline Ratio Abnormality	**Blue:** These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem. **Green:** Although all molds are potential allergens, these are the most common allergens that may be found indoors. **Orange:** The spore count is slightly higher than the outside count and may or may not indicate a source of contamination. **Red:** The spore count is significantly higher than the baseline count and probably indicates a source of contamination. **Violet:** The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors.
Color Coding	Fungi that are present in indoor samples at levels lower than 200 per cubic meter are not color coded on the report, unless they are one of the water damage indicators.

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Organism Descriptions

Alternaria

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

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

Ascospores

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

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

Aspergillus|Penicillium

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

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

Basidiospores

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

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

Bipolaris|Drechslera

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

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

Cladosporium

Habitat: One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts.

Effects: A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis.

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Organism Descriptions

Curvularia

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

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

Epicoccum

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

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

Myxomycetes

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

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

Pithomyces

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

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

Torula

Habitat: Found in soil and on wood and grasses. Occasionally found growing indoors on cellulose containing materials.

Effects: A known allergen. No known cases of human infection.

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Mold

Total Environmental Concepts, Inc.

Placement Tech	
Placement Date	8/12/21
Address	3600 commonwealth ave

Pickup → 8/16/21

Sample #	Location/ room	Volume ~~Flow Rate~~	Sampling Time	Pump Start Time	Pump End Time	Comments
43188860	cafeteria	75L		1:36pm	145pm	84° F = 49% rem
43188849	cafeteria			1:53pm	2pm	
43188839	Media Center			2:12pm	220	551. 179°f
43188859	40			2:27	234	
43188854	Hallway 38/40 stairs			2:28	2:35	
43188845	hallway by 46			237	244	
43188828	P office			254		67% 77°f.
43188823	8			306pm	315	
43188821	11			316	323	
43188818	hallway by 18			329	336	
43188827	26			309	316	
43188822	hallway by 20			321	328	
43188844	29			355	402	
43188823	outside of cafe	↓		355	402	77°f

Appendix B: Radon Analytical Results

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723528 Result: 1.5 ± 0.3 pCi/l
Location: media center - N

CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 2:00 pm
Ended : 2021-08-16 at 2:00 pm
Hours/MST% : 96 hours 13.9% 70°F

Kit #: 9723529 Result: 1.3 ± 0.3 pCi/l
Location: media center - S

CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 2:00 pm
Ended : 2021-08-16 at 2:00 pm
Hours/MST% : 96 hours 15.1% 70°F

Kit #: 9723530 Result: < 0.3 pCi/l
Location: class 40

CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 2:00 pm
Ended : 2021-08-16 at 3:00 pm
Hours/MST% : 97 hours 14.0% 70°F

Kit #: 9723531 Result: < 0.3 pCi/l
Location: Hallway R39 R40

CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 3:00 pm
Ended : 2021-08-16 at 3:00 pm
Hours/MST% : 96 hours 11.3% 70°F

Kit #: 9723532 Result: < 0.3 pCi/l
Location: Hallway R45 R46

CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-14 at 2:00 pm
Ended : 2021-08-16 at 3:00 pm
Hours/MST% : 49 hours 13.5% 70°F

Kit #: 9723533 Result: 0.5 ± 0.3 pCi/l
Location:

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 3:00 pm
Ended : 2021-08-16 at 2:00 pm
Hours/MST% : 95 hours 17.5% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723534 Result: 0.6 ± 0.3 pCi/l
Location: Class 11-1
, CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 3:00 pm
Ended : 2021-08-16 at 2:00 pm
Hours/MST% : 95 hours 16.4% 70°F

Kit #: 9723535 Result: 0.6 ± 0.3 pCi/l
Location: principal office
, CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 3:00 pm
Ended : 2021-08-16 at 3:00 pm
Hours/MST% : 96 hours 14.2% 70°F

Kit #: 9723536 Result: 0.7 ± 0.3 pCi/l
Location: Class 29
, CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 3:00 pm
Ended : 2021-08-16 at 2:00 pm
Hours/MST% : 95 hours 17.4% 70°F

Kit #: 9723537 Result: 0.9 ± 0.3 pCi/l
Location: Class 26
, CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 3:00 pm
Ended : 2021-08-16 at 2:00 pm
Hours/MST% : 95 hours 15.7% 70°F

Kit #: 9723538 Result: 0.6 ± 0.3 pCi/l
Location: Hallway R20 R24
, CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 3:00 pm
Ended : 2021-08-16 at 2:00 pm
Hours/MST% : 95 hours 16.7% 70°F

Kit #: 9723542 Result: 0.5 ± 0.3 pCi/l
Location: Hallway R15 R17
, CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 3:00 pm
Ended : 2021-08-16 at 2:00 pm
Hours/MST% : 95 hours 17.4% 70°F

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723544 Result: 0.6 ± 0.3 pCi/l
Location: class 11-2

CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 3:00 pm
Ended : 2021-08-16 at 2:00 pm
Hours/MST% : 95 hours 17.5% 70°F

Kit #: 9723584 Result: ????
Location: Travel Blank

Analysis Note : MI
Analyzed : 2021-08-17 at 2:00 pm
Started : 0000-00-00 at
Ended : 0000-00-00 at
Hours/MST% : 0 hours 4.5% 70°F

Kit #: 9723519 Result: 0.6 ± 0.3 pCi/l
Location: cafe-4

CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 2:00 pm
Ended : 2021-08-16 at 2:00 pm
Hours/MST% : 96 hours 15.4% 70°F

Kit #: 9723520 Result: < 0.3 pCi/l
Location: cafe-3

CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 2:00 pm
Ended : 2021-08-16 at 2:00 pm
Hours/MST% : 96 hours 14.8% 70°F

Kit #: 9723522 Result: < 0.3 pCi/l
Location: cafe-B/cafe-2

CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 1:00 pm
Ended : 2021-08-16 at 2:00 pm
Hours/MST% : 97 hours 5.8% 70°F

Kit #: 9723526 Result: 0.6 ± 0.3 pCi/l
Location: cafe-1

CK

Analysis Note :
Analyzed : 2021-08-17 at 2:00 pm
Started : 2021-08-12 at 1:00 pm
Ended : 2021-08-16 at 2:00 pm
Hours/MST% : 97 hours 13.3% 70°F

Total Environmental Concepts, Inc.

Placement Tech		Sample Type	Radon	Pickup Tech	
Placement Date	8/12/21	Sample Media		Pickup Date	8/16/21
Address	3600 Commonwealth Ave			Email	Kford@tecipro

Sample #	Location/ room	SQFT >2000	HVAC Y/N	Window Y/N	Fan Y/N	Time In	Time out	Comment
CK9723526	CK Cafeteria 1		Y	Y	N	13:33		
CK9723522B	CK Cafeteria 2			Y		13:44		
CK9723520	CK Cafeteria 3			N		13:48		
CK9723519D	CK Cafeteria 4			N		13:48		
CK9723529	CK Media center 5			N		14:11		
CK9723528	CK Media center N			N		14:11		
CK9723531	CK Hallway R39 R40			Y		14:30		
CK9723530	CK Class 40			Y		14:28		
CK9723532	CK Hallway R45 R46			N		14:35		
CK9723536	CK Class 29			Y		15:00		
CK9723537	CK Class 26			Y		15:09		
CK9723535	CK Principal office			N		14:54		
CK9723538	CK Hallway R20 R24			N		15:19		
CK9723537	CK Class 8			Y		15:30		
CK9723534	CK Class 11-1			Y		15:33		
CK9723542	CK Hallway R15 R17			N		15:38		
CK9723544D	CK Class 11-2			Y		15:44		
CKNB9723584	CKNB travel Blank		—	←	—	[illegible]		

Appendix C: VOCs (TO+15) Analytical Results

PHASE SEPARATION SCIENCE

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www.phaseonline.com

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

September 27, 2021

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

Reference: PSS Project No: **21092007**
Project Name: ACPS IAQ Testing
Project Location: Cora Kelly
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) **21092007**.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 25, 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

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800-932-9047
www.phaseonline.com

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21092007

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/20/2021 at 03:10 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21092007-001	CK - Outdoor	AIR	09/17/21 19:11
21092007-002	CK - Office	AIR	09/17/21 19:13
21092007-003	CK - Library	AIR	09/17/21 19:18
21092007-004	CK - Cafeteria	AIR	09/17/21 19:21
21092007-005	CK - Class 29	AIR	09/17/21 19:41
21092007-007	CK - 20 - 19	AIR	09/17/21 19:47
21092007-008	CK - Class 8	AIR	09/17/21 19:51
21092007-009	CK - Class 11	AIR	09/17/21 19:55
21092007-010	CK - Hall 15-17	AIR	09/17/21 19:58
21092007-011	CK - Hall 38-39	AIR	09/17/21 19:25
21092007-012	CK - Class 40	AIR	09/17/21 19:26
21092007-013	CK - Hall 45-46	AIR	09/17/21 19:29

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.

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Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21092007

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

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Outdoor **Date/Time Sampled: 09/17/2021 19:11** **PSS Sample ID: 21092007-001**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS | Analytical Method: EPA TO-15 | Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**11**	ug/M3	9.5		1	09/24/21	09/24/21 04:23	1055
Benzene	ND	ug/M3	0.32		1	09/24/21	09/24/21 04:23	1055
Benzyl Chloride	ND	ug/M3	1.0		1	09/24/21	09/24/21 04:23	1055
Bromodichloromethane	ND	ug/M3	1.3		1	09/24/21	09/24/21 04:23	1055
Bromoform	ND	ug/M3	2.1		1	09/24/21	09/24/21 04:23	1055
Bromomethane	ND	ug/M3	0.78		1	09/24/21	09/24/21 04:23	1055
1,3-Butadiene	ND	ug/M3	0.44		1	09/24/21	09/24/21 04:23	1055
2-Butanone (MEK)	**1.8**	ug/M3	1.5		1	09/24/21	09/24/21 04:23	1055
Carbon Disulfide	ND	ug/M3	12		1	09/24/21	09/24/21 04:23	1055
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/24/21	09/24/21 04:23	1055
Chlorobenzene	ND	ug/M3	0.92		1	09/24/21	09/24/21 04:23	1055
Chloroethane	ND	ug/M3	0.53		1	09/24/21	09/24/21 04:23	1055
Chloroform	ND	ug/M3	0.98		1	09/24/21	09/24/21 04:23	1055
Chloromethane	**0.85**	ug/M3	0.41		1	09/24/21	09/24/21 04:23	1055
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/24/21	09/24/21 04:23	1055
Cyclohexane	ND	ug/M3	0.69		1	09/24/21	09/24/21 04:23	1055
Dibromochloromethane	ND	ug/M3	1.7		1	09/24/21	09/24/21 04:23	1055
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 04:23	1055
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 04:23	1055
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 04:23	1055
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 04:23	1055
Dichlorodifluoromethane	**1.2**	ug/M3	0.99		1	09/24/21	09/24/21 04:23	1055
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 04:23	1055
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 04:23	1055
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 04:23	1055
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 04:23	1055
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 04:23	1055
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/24/21	09/24/21 04:23	1055
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 04:23	1055
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 04:23	1055
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 04:23	1055
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/24/21	09/24/21 04:23	1055
Ethyl Acetate	ND	ug/M3	0.72		1	09/24/21	09/24/21 04:23	1055
Ethylbenzene	ND	ug/M3	0.43		1	09/24/21	09/24/21 04:23	1055
4-Ethyltoluene	ND	ug/M3	0.98		1	09/24/21	09/24/21 04:23	1055

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Outdoor **Date/Time Sampled: 09/17/2021 19:11** **PSS Sample ID: 21092007-001**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS | Analytical Method: EPA TO-15 | Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/24/21	09/24/21 04:23	1055
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/24/21	09/24/21 04:23	1055
n-Hexane	ND	ug/M3	14		1	09/24/21	09/24/21 04:23	1055
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 04:23	1055
Isopropylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 04:23	1055
Methylene Chloride	ND	ug/M3	14		1	09/24/21	09/24/21 04:23	1055
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 04:23	1055
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/24/21	09/24/21 04:23	1055
Naphthalene	**0.63**	ug/M3	0.52		1	09/24/21	09/24/21 04:23	1055
Propylene	ND	ug/M3	1.7		1	09/24/21	09/24/21 04:23	1055
n-Propylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 04:23	1055
Styrene	ND	ug/M3	4.3		1	09/24/21	09/24/21 04:23	1055
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 04:23	1055
Tetrachloroethene	ND	ug/M3	1.4		1	09/24/21	09/24/21 04:23	1055
Tetrahydrofuran	ND	ug/M3	0.59		1	09/24/21	09/24/21 04:23	1055
Toluene	**2.8**	ug/M3	0.38		1	09/24/21	09/24/21 04:23	1055
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/24/21	09/24/21 04:23	1055
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 04:23	1055
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 04:23	1055
Trichloroethene	ND	ug/M3	1.1		1	09/24/21	09/24/21 04:23	1055
Trichlorofluoromethane	**1.1**	ug/M3	1.1		1	09/24/21	09/24/21 04:23	1055
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 04:23	1055
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 04:23	1055
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 04:23	1055
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/24/21	09/24/21 04:23	1055
Vinyl acetate	ND	ug/M3	1.8		1	09/24/21	09/24/21 04:23	1055
Bromoethene	ND	ug/M3	0.87		1	09/24/21	09/24/21 04:23	1055
Vinyl chloride	ND	ug/M3	0.51		1	09/24/21	09/24/21 04:23	1055
m&p-Xylene	ND	ug/M3	0.87		1	09/24/21	09/24/21 04:23	1055
o-Xylene	ND	ug/M3	0.43		1	09/24/21	09/24/21 04:23	1055

Surrogate(s)	*Recovery*		*Limits*				
4-Bromofluorobenzene	*112*	*%*	*87-120*		*1*	*09/24/21*	*09/24/21 04:23*	*1055*

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Office **Date/Time Sampled: 09/17/2021 19:13** **PSS Sample ID: 21092007-002**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS | Analytical Method: EPA TO-15 | Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**15**	ug/M3	9.5		1	09/24/21	09/24/21 05:17	1055
Benzene	ND	ug/M3	0.32		1	09/24/21	09/24/21 05:17	1055
Benzyl Chloride	ND	ug/M3	1.0		1	09/24/21	09/24/21 05:17	1055
Bromodichloromethane	ND	ug/M3	1.3		1	09/24/21	09/24/21 05:17	1055
Bromoform	ND	ug/M3	2.1		1	09/24/21	09/24/21 05:17	1055
Bromomethane	ND	ug/M3	0.78		1	09/24/21	09/24/21 05:17	1055
1,3-Butadiene	ND	ug/M3	0.44		1	09/24/21	09/24/21 05:17	1055
2-Butanone (MEK)	ND	ug/M3	1.5		1	09/24/21	09/24/21 05:17	1055
Carbon Disulfide	ND	ug/M3	12		1	09/24/21	09/24/21 05:17	1055
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/24/21	09/24/21 05:17	1055
Chlorobenzene	ND	ug/M3	0.92		1	09/24/21	09/24/21 05:17	1055
Chloroethane	ND	ug/M3	0.53		1	09/24/21	09/24/21 05:17	1055
Chloroform	**0.98**	ug/M3	0.98		1	09/24/21	09/24/21 05:17	1055
Chloromethane	**0.87**	ug/M3	0.41		1	09/24/21	09/24/21 05:17	1055
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/24/21	09/24/21 05:17	1055
Cyclohexane	ND	ug/M3	0.69		1	09/24/21	09/24/21 05:17	1055
Dibromochloromethane	ND	ug/M3	1.7		1	09/24/21	09/24/21 05:17	1055
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 05:17	1055
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 05:17	1055
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 05:17	1055
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 05:17	1055
Dichlorodifluoromethane	**1.3**	ug/M3	0.99		1	09/24/21	09/24/21 05:17	1055
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 05:17	1055
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 05:17	1055
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 05:17	1055
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 05:17	1055
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 05:17	1055
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/24/21	09/24/21 05:17	1055
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 05:17	1055
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 05:17	1055
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 05:17	1055
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/24/21	09/24/21 05:17	1055
Ethyl Acetate	ND	ug/M3	0.72		1	09/24/21	09/24/21 05:17	1055
Ethylbenzene	ND	ug/M3	0.43		1	09/24/21	09/24/21 05:17	1055
4-Ethyltoluene	ND	ug/M3	0.98		1	09/24/21	09/24/21 05:17	1055

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Office **Date/Time Sampled: 09/17/2021 19:13** **PSS Sample ID: 21092007-002**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS | Analytical Method: EPA TO-15 | Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/24/21	09/24/21 05:17	1055
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/24/21	09/24/21 05:17	1055
n-Hexane	ND	ug/M3	14		1	09/24/21	09/24/21 05:17	1055
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 05:17	1055
Isopropylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 05:17	1055
Methylene Chloride	ND	ug/M3	14		1	09/24/21	09/24/21 05:17	1055
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 05:17	1055
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/24/21	09/24/21 05:17	1055
Naphthalene	**0.79**	ug/M3	0.52		1	09/24/21	09/24/21 05:17	1055
Propylene	ND	ug/M3	1.7		1	09/24/21	09/24/21 05:17	1055
n-Propylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 05:17	1055
Styrene	ND	ug/M3	4.3		1	09/24/21	09/24/21 05:17	1055
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 05:17	1055
Tetrachloroethene	ND	ug/M3	1.4		1	09/24/21	09/24/21 05:17	1055
Tetrahydrofuran	ND	ug/M3	0.59		1	09/24/21	09/24/21 05:17	1055
Toluene	**2.8**	ug/M3	0.38		1	09/24/21	09/24/21 05:17	1055
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/24/21	09/24/21 05:17	1055
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 05:17	1055
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 05:17	1055
Trichloroethene	ND	ug/M3	1.1		1	09/24/21	09/24/21 05:17	1055
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 05:17	1055
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 05:17	1055
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 05:17	1055
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 05:17	1055
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/24/21	09/24/21 05:17	1055
Vinyl acetate	ND	ug/M3	1.8		1	09/24/21	09/24/21 05:17	1055
Bromoethene	ND	ug/M3	0.87		1	09/24/21	09/24/21 05:17	1055
Vinyl chloride	ND	ug/M3	0.51		1	09/24/21	09/24/21 05:17	1055
m&p-Xylene	ND	ug/M3	0.87		1	09/24/21	09/24/21 05:17	1055
o-Xylene	ND	ug/M3	0.43		1	09/24/21	09/24/21 05:17	1055

Surrogate(s)	*Recovery*		*Limits*				
4-Bromofluorobenzene	*111*	*%*	*87-120*		*1*	*09/24/21*	*09/24/21 05:17*	*1055*

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Library **Date/Time Sampled: 09/17/2021 19:18** **PSS Sample ID: 21092007-003**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS | Analytical Method: EPA TO-15 | Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**16**	ug/M3	9.5		1	09/24/21	09/24/21 07:50	1055
Benzene	ND	ug/M3	0.32		1	09/24/21	09/24/21 07:50	1055
Benzyl Chloride	ND	ug/M3	1.0		1	09/24/21	09/24/21 07:50	1055
Bromodichloromethane	ND	ug/M3	1.3		1	09/24/21	09/24/21 07:50	1055
Bromoform	ND	ug/M3	2.1		1	09/24/21	09/24/21 07:50	1055
Bromomethane	ND	ug/M3	0.78		1	09/24/21	09/24/21 07:50	1055
1,3-Butadiene	ND	ug/M3	0.44		1	09/24/21	09/24/21 07:50	1055
2-Butanone (MEK)	ND	ug/M3	1.5		1	09/24/21	09/24/21 07:50	1055
Carbon Disulfide	ND	ug/M3	12		1	09/24/21	09/24/21 07:50	1055
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/24/21	09/24/21 07:50	1055
Chlorobenzene	ND	ug/M3	0.92		1	09/24/21	09/24/21 07:50	1055
Chloroethane	ND	ug/M3	0.53		1	09/24/21	09/24/21 07:50	1055
Chloroform	ND	ug/M3	0.98		1	09/24/21	09/24/21 07:50	1055
Chloromethane	**0.97**	ug/M3	0.41		1	09/24/21	09/24/21 07:50	1055
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/24/21	09/24/21 07:50	1055
Cyclohexane	ND	ug/M3	0.69		1	09/24/21	09/24/21 07:50	1055
Dibromochloromethane	ND	ug/M3	1.7		1	09/24/21	09/24/21 07:50	1055
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 07:50	1055
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 07:50	1055
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 07:50	1055
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 07:50	1055
Dichlorodifluoromethane	**1.6**	ug/M3	0.99		1	09/24/21	09/24/21 07:50	1055
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 07:50	1055
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 07:50	1055
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 07:50	1055
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 07:50	1055
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 07:50	1055
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/24/21	09/24/21 07:50	1055
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 07:50	1055
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 07:50	1055
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 07:50	1055
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/24/21	09/24/21 07:50	1055
Ethyl Acetate	ND	ug/M3	0.72		1	09/24/21	09/24/21 07:50	1055
Ethylbenzene	ND	ug/M3	0.43		1	09/24/21	09/24/21 07:50	1055
4-Ethyltoluene	ND	ug/M3	0.98		1	09/24/21	09/24/21 07:50	1055

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Library **Date/Time Sampled: 09/17/2021 19:18** **PSS Sample ID: 21092007-003**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS | Analytical Method: EPA TO-15 | Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/24/21	09/24/21 07:50	1055
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/24/21	09/24/21 07:50	1055
n-Hexane	ND	ug/M3	14		1	09/24/21	09/24/21 07:50	1055
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 07:50	1055
Isopropylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 07:50	1055
Methylene Chloride	ND	ug/M3	14		1	09/24/21	09/24/21 07:50	1055
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 07:50	1055
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/24/21	09/24/21 07:50	1055
Naphthalene	**0.68**	ug/M3	0.52		1	09/24/21	09/24/21 07:50	1055
Propylene	ND	ug/M3	1.7		1	09/24/21	09/24/21 07:50	1055
n-Propylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 07:50	1055
Styrene	ND	ug/M3	4.3		1	09/24/21	09/24/21 07:50	1055
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 07:50	1055
Tetrachloroethene	ND	ug/M3	1.4		1	09/24/21	09/24/21 07:50	1055
Tetrahydrofuran	ND	ug/M3	0.59		1	09/24/21	09/24/21 07:50	1055
Toluene	**2.3**	ug/M3	0.38		1	09/24/21	09/24/21 07:50	1055
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/24/21	09/24/21 07:50	1055
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 07:50	1055
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 07:50	1055
Trichloroethene	ND	ug/M3	1.1		1	09/24/21	09/24/21 07:50	1055
Trichlorofluoromethane	**1.2**	ug/M3	1.1		1	09/24/21	09/24/21 07:50	1055
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 07:50	1055
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 07:50	1055
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 07:50	1055
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/24/21	09/24/21 07:50	1055
Vinyl acetate	ND	ug/M3	1.8		1	09/24/21	09/24/21 07:50	1055
Bromoethene	ND	ug/M3	0.87		1	09/24/21	09/24/21 07:50	1055
Vinyl chloride	ND	ug/M3	0.51		1	09/24/21	09/24/21 07:50	1055
m&p-Xylene	ND	ug/M3	0.87		1	09/24/21	09/24/21 07:50	1055
o-Xylene	ND	ug/M3	0.43		1	09/24/21	09/24/21 07:50	1055

Surrogate(s)	*Recovery*		*Limits*				
4-Bromofluorobenzene	*110*	*%*	*87-120*		*1*	*09/24/21*	*09/24/21 07:50*	*1055*

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Cafeteria **Date/Time Sampled: 09/17/2021 19:21** **PSS Sample ID: 21092007-004**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS | Analytical Method: EPA TO-15 | Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**12**	ug/M3	9.5		1	09/24/21	09/24/21 08:45	1055
Benzene	ND	ug/M3	0.32		1	09/24/21	09/24/21 08:45	1055
Benzyl Chloride	ND	ug/M3	1.0		1	09/24/21	09/24/21 08:45	1055
Bromodichloromethane	ND	ug/M3	1.3		1	09/24/21	09/24/21 08:45	1055
Bromoform	ND	ug/M3	2.1		1	09/24/21	09/24/21 08:45	1055
Bromomethane	ND	ug/M3	0.78		1	09/24/21	09/24/21 08:45	1055
1,3-Butadiene	ND	ug/M3	0.44		1	09/24/21	09/24/21 08:45	1055
2-Butanone (MEK)	ND	ug/M3	1.5		1	09/24/21	09/24/21 08:45	1055
Carbon Disulfide	ND	ug/M3	12		1	09/24/21	09/24/21 08:45	1055
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/24/21	09/24/21 08:45	1055
Chlorobenzene	ND	ug/M3	0.92		1	09/24/21	09/24/21 08:45	1055
Chloroethane	ND	ug/M3	0.53		1	09/24/21	09/24/21 08:45	1055
Chloroform	ND	ug/M3	0.98		1	09/24/21	09/24/21 08:45	1055
Chloromethane	**0.78**	ug/M3	0.41		1	09/24/21	09/24/21 08:45	1055
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/24/21	09/24/21 08:45	1055
Cyclohexane	ND	ug/M3	0.69		1	09/24/21	09/24/21 08:45	1055
Dibromochloromethane	ND	ug/M3	1.7		1	09/24/21	09/24/21 08:45	1055
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 08:45	1055
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 08:45	1055
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 08:45	1055
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 08:45	1055
Dichlorodifluoromethane	**1.2**	ug/M3	0.99		1	09/24/21	09/24/21 08:45	1055
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 08:45	1055
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 08:45	1055
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 08:45	1055
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 08:45	1055
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 08:45	1055
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/24/21	09/24/21 08:45	1055
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 08:45	1055
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 08:45	1055
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 08:45	1055
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/24/21	09/24/21 08:45	1055
Ethyl Acetate	ND	ug/M3	0.72		1	09/24/21	09/24/21 08:45	1055
Ethylbenzene	ND	ug/M3	0.43		1	09/24/21	09/24/21 08:45	1055
4-Ethyltoluene	ND	ug/M3	0.98		1	09/24/21	09/24/21 08:45	1055

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Cafeteria **Date/Time Sampled: 09/17/2021 19:21** **PSS Sample ID: 21092007-004**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/24/21	09/24/21 08:45	1055
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/24/21	09/24/21 08:45	1055
n-Hexane	ND	ug/M3	14		1	09/24/21	09/24/21 08:45	1055
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 08:45	1055
Isopropylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 08:45	1055
Methylene Chloride	ND	ug/M3	14		1	09/24/21	09/24/21 08:45	1055
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 08:45	1055
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/24/21	09/24/21 08:45	1055
Naphthalene	**0.58**	ug/M3	0.52		1	09/24/21	09/24/21 08:45	1055
Propylene	ND	ug/M3	1.7		1	09/24/21	09/24/21 08:45	1055
n-Propylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 08:45	1055
Styrene	ND	ug/M3	4.3		1	09/24/21	09/24/21 08:45	1055
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 08:45	1055
Tetrachloroethene	ND	ug/M3	1.4		1	09/24/21	09/24/21 08:45	1055
Tetrahydrofuran	ND	ug/M3	0.59		1	09/24/21	09/24/21 08:45	1055
Toluene	**3.1**	ug/M3	0.38		1	09/24/21	09/24/21 08:45	1055
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/24/21	09/24/21 08:45	1055
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 08:45	1055
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 08:45	1055
Trichloroethene	ND	ug/M3	1.1		1	09/24/21	09/24/21 08:45	1055
Trichlorofluoromethane	**1.1**	ug/M3	1.1		1	09/24/21	09/24/21 08:45	1055
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 08:45	1055
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 08:45	1055
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 08:45	1055
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/24/21	09/24/21 08:45	1055
Vinyl acetate	ND	ug/M3	1.8		1	09/24/21	09/24/21 08:45	1055
Bromoethene	ND	ug/M3	0.87		1	09/24/21	09/24/21 08:45	1055
Vinyl chloride	ND	ug/M3	0.51		1	09/24/21	09/24/21 08:45	1055
m&p-Xylene	ND	ug/M3	0.87		1	09/24/21	09/24/21 08:45	1055
o-Xylene	ND	ug/M3	0.43		1	09/24/21	09/24/21 08:45	1055

Surrogate(s)	*Recovery*		*Limits*				
4-Bromofluorobenzene	*111*	*%*	*87-120*		*1*	*09/24/21*	*09/24/21 08:45*	*1055*

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Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Class 29 **Date/Time Sampled: 09/17/2021 19:41** **PSS Sample ID: 21092007-005**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**19**	ug/M3	9.5		1	09/24/21	09/24/21 09:40	1055
Benzene	ND	ug/M3	0.32		1	09/24/21	09/24/21 09:40	1055
Benzyl Chloride	ND	ug/M3	1.0		1	09/24/21	09/24/21 09:40	1055
Bromodichloromethane	ND	ug/M3	1.3		1	09/24/21	09/24/21 09:40	1055
Bromoform	ND	ug/M3	2.1		1	09/24/21	09/24/21 09:40	1055
Bromomethane	ND	ug/M3	0.78		1	09/24/21	09/24/21 09:40	1055
1,3-Butadiene	ND	ug/M3	0.44		1	09/24/21	09/24/21 09:40	1055
2-Butanone (MEK)	**1.7**	ug/M3	1.5		1	09/24/21	09/24/21 09:40	1055
Carbon Disulfide	ND	ug/M3	12		1	09/24/21	09/24/21 09:40	1055
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/24/21	09/24/21 09:40	1055
Chlorobenzene	ND	ug/M3	0.92		1	09/24/21	09/24/21 09:40	1055
Chloroethane	ND	ug/M3	0.53		1	09/24/21	09/24/21 09:40	1055
Chloroform	ND	ug/M3	0.98		1	09/24/21	09/24/21 09:40	1055
Chloromethane	**0.91**	ug/M3	0.41		1	09/24/21	09/24/21 09:40	1055
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/24/21	09/24/21 09:40	1055
Cyclohexane	ND	ug/M3	0.69		1	09/24/21	09/24/21 09:40	1055
Dibromochloromethane	ND	ug/M3	1.7		1	09/24/21	09/24/21 09:40	1055
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 09:40	1055
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 09:40	1055
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 09:40	1055
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 09:40	1055
Dichlorodifluoromethane	**1.5**	ug/M3	0.99		1	09/24/21	09/24/21 09:40	1055
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 09:40	1055
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 09:40	1055
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 09:40	1055
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 09:40	1055
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 09:40	1055
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/24/21	09/24/21 09:40	1055
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 09:40	1055
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 09:40	1055
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 09:40	1055
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/24/21	09/24/21 09:40	1055
Ethyl Acetate	ND	ug/M3	0.72		1	09/24/21	09/24/21 09:40	1055
Ethylbenzene	ND	ug/M3	0.43		1	09/24/21	09/24/21 09:40	1055
4-Ethyltoluene	ND	ug/M3	0.98		1	09/24/21	09/24/21 09:40	1055

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Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Class 29 **Date/Time Sampled: 09/17/2021 19:41** **PSS Sample ID: 21092007-005**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/24/21	09/24/21 09:40	1055
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/24/21	09/24/21 09:40	1055
n-Hexane	ND	ug/M3	14		1	09/24/21	09/24/21 09:40	1055
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 09:40	1055
Isopropylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 09:40	1055
Methylene Chloride	ND	ug/M3	14		1	09/24/21	09/24/21 09:40	1055
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 09:40	1055
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/24/21	09/24/21 09:40	1055
Naphthalene	**2.0**	ug/M3	0.52		1	09/24/21	09/24/21 09:40	1055
Propylene	ND	ug/M3	1.7		1	09/24/21	09/24/21 09:40	1055
n-Propylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 09:40	1055
Styrene	ND	ug/M3	4.3		1	09/24/21	09/24/21 09:40	1055
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 09:40	1055
Tetrachloroethene	ND	ug/M3	1.4		1	09/24/21	09/24/21 09:40	1055
Tetrahydrofuran	ND	ug/M3	0.59		1	09/24/21	09/24/21 09:40	1055
Toluene	**4.0**	ug/M3	0.38		1	09/24/21	09/24/21 09:40	1055
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/24/21	09/24/21 09:40	1055
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 09:40	1055
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 09:40	1055
Trichloroethene	ND	ug/M3	1.1		1	09/24/21	09/24/21 09:40	1055
Trichlorofluoromethane	**1.1**	ug/M3	1.1		1	09/24/21	09/24/21 09:40	1055
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 09:40	1055
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 09:40	1055
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 09:40	1055
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/24/21	09/24/21 09:40	1055
Vinyl acetate	ND	ug/M3	1.8		1	09/24/21	09/24/21 09:40	1055
Bromoethene	ND	ug/M3	0.87		1	09/24/21	09/24/21 09:40	1055
Vinyl chloride	ND	ug/M3	0.51		1	09/24/21	09/24/21 09:40	1055
m&p-Xylene	**1.0**	ug/M3	0.87		1	09/24/21	09/24/21 09:40	1055
o-Xylene	ND	ug/M3	0.43		1	09/24/21	09/24/21 09:40	1055

Surrogate(s)	*Recovery*		*Limits*				
4-Bromofluorobenzene	*110*	*%*	*87-120*		*1*	*09/24/21*	*09/24/21 09:40*	*1055*

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Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - 20 - 19 **Date/Time Sampled: 09/17/2021 19:47** **PSS Sample ID: 21092007-007**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**18**	ug/M3	9.5		1	09/24/21	09/24/21 10:35	1055
Benzene	ND	ug/M3	0.32		1	09/24/21	09/24/21 10:35	1055
Benzyl Chloride	ND	ug/M3	1.0		1	09/24/21	09/24/21 10:35	1055
Bromodichloromethane	ND	ug/M3	1.3		1	09/24/21	09/24/21 10:35	1055
Bromoform	ND	ug/M3	2.1		1	09/24/21	09/24/21 10:35	1055
Bromomethane	ND	ug/M3	0.78		1	09/24/21	09/24/21 10:35	1055
1,3-Butadiene	ND	ug/M3	0.44		1	09/24/21	09/24/21 10:35	1055
2-Butanone (MEK)	**1.6**	ug/M3	1.5		1	09/24/21	09/24/21 10:35	1055
Carbon Disulfide	ND	ug/M3	12		1	09/24/21	09/24/21 10:35	1055
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/24/21	09/24/21 10:35	1055
Chlorobenzene	ND	ug/M3	0.92		1	09/24/21	09/24/21 10:35	1055
Chloroethane	ND	ug/M3	0.53		1	09/24/21	09/24/21 10:35	1055
Chloroform	**2.2**	ug/M3	0.98		1	09/24/21	09/24/21 10:35	1055
Chloromethane	**0.95**	ug/M3	0.41		1	09/24/21	09/24/21 10:35	1055
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/24/21	09/24/21 10:35	1055
Cyclohexane	ND	ug/M3	0.69		1	09/24/21	09/24/21 10:35	1055
Dibromochloromethane	ND	ug/M3	1.7		1	09/24/21	09/24/21 10:35	1055
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 10:35	1055
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 10:35	1055
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 10:35	1055
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 10:35	1055
Dichlorodifluoromethane	**1.4**	ug/M3	0.99		1	09/24/21	09/24/21 10:35	1055
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 10:35	1055
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 10:35	1055
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 10:35	1055
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 10:35	1055
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 10:35	1055
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/24/21	09/24/21 10:35	1055
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 10:35	1055
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 10:35	1055
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 10:35	1055
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/24/21	09/24/21 10:35	1055
Ethyl Acetate	ND	ug/M3	0.72		1	09/24/21	09/24/21 10:35	1055
Ethylbenzene	ND	ug/M3	0.43		1	09/24/21	09/24/21 10:35	1055
4-Ethyltoluene	ND	ug/M3	0.98		1	09/24/21	09/24/21 10:35	1055

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Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - 20 - 19 **Date/Time Sampled: 09/17/2021 19:47** **PSS Sample ID: 21092007-007**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS | Analytical Method: EPA TO-15 | Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	**2.5**	ug/M3	0.82		1	09/24/21	09/24/21 10:35	1055
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/24/21	09/24/21 10:35	1055
n-Hexane	ND	ug/M3	14		1	09/24/21	09/24/21 10:35	1055
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 10:35	1055
Isopropylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 10:35	1055
Methylene Chloride	**17**	ug/M3	14		1	09/24/21	09/24/21 10:35	1055
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 10:35	1055
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/24/21	09/24/21 10:35	1055
Naphthalene	**1.00**	ug/M3	0.52		1	09/24/21	09/24/21 10:35	1055
Propylene	ND	ug/M3	1.7		1	09/24/21	09/24/21 10:35	1055
n-Propylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 10:35	1055
Styrene	ND	ug/M3	4.3		1	09/24/21	09/24/21 10:35	1055
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 10:35	1055
Tetrachloroethene	ND	ug/M3	1.4		1	09/24/21	09/24/21 10:35	1055
Tetrahydrofuran	ND	ug/M3	0.59		1	09/24/21	09/24/21 10:35	1055
Toluene	**4.7**	ug/M3	0.38		1	09/24/21	09/24/21 10:35	1055
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/24/21	09/24/21 10:35	1055
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 10:35	1055
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 10:35	1055
Trichloroethene	ND	ug/M3	1.1		1	09/24/21	09/24/21 10:35	1055
Trichlorofluoromethane	**1.1**	ug/M3	1.1		1	09/24/21	09/24/21 10:35	1055
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 10:35	1055
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 10:35	1055
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 10:35	1055
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/24/21	09/24/21 10:35	1055
Vinyl acetate	ND	ug/M3	1.8		1	09/24/21	09/24/21 10:35	1055
Bromoethene	ND	ug/M3	0.87		1	09/24/21	09/24/21 10:35	1055
Vinyl chloride	ND	ug/M3	0.51		1	09/24/21	09/24/21 10:35	1055
m&p-Xylene	ND	ug/M3	0.87		1	09/24/21	09/24/21 10:35	1055
o-Xylene	ND	ug/M3	0.43		1	09/24/21	09/24/21 10:35	1055

Surrogate(s)	***Recovery***		***Limits***				
4-Bromofluorobenzene	*110*	*%*	*87-120*		*1*	*09/24/21*	*09/24/21 10:35*	*1055*

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Class 8 **Date/Time Sampled: 09/17/2021 19:51** **PSS Sample ID: 21092007-008**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**21**	ug/M3	9.5		1	09/24/21	09/24/21 11:31	1055
Benzene	ND	ug/M3	0.32		1	09/24/21	09/24/21 11:31	1055
Benzyl Chloride	ND	ug/M3	1.0		1	09/24/21	09/24/21 11:31	1055
Bromodichloromethane	ND	ug/M3	1.3		1	09/24/21	09/24/21 11:31	1055
Bromoform	ND	ug/M3	2.1		1	09/24/21	09/24/21 11:31	1055
Bromomethane	ND	ug/M3	0.78		1	09/24/21	09/24/21 11:31	1055
1,3-Butadiene	ND	ug/M3	0.44		1	09/24/21	09/24/21 11:31	1055
2-Butanone (MEK)	**1.7**	ug/M3	1.5		1	09/24/21	09/24/21 11:31	1055
Carbon Disulfide	ND	ug/M3	12		1	09/24/21	09/24/21 11:31	1055
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/24/21	09/24/21 11:31	1055
Chlorobenzene	ND	ug/M3	0.92		1	09/24/21	09/24/21 11:31	1055
Chloroethane	ND	ug/M3	0.53		1	09/24/21	09/24/21 11:31	1055
Chloroform	**3.8**	ug/M3	0.98		1	09/24/21	09/24/21 11:31	1055
Chloromethane	**1.1**	ug/M3	0.41		1	09/24/21	09/24/21 11:31	1055
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/24/21	09/24/21 11:31	1055
Cyclohexane	ND	ug/M3	0.69		1	09/24/21	09/24/21 11:31	1055
Dibromochloromethane	ND	ug/M3	1.7		1	09/24/21	09/24/21 11:31	1055
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 11:31	1055
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 11:31	1055
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 11:31	1055
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 11:31	1055
Dichlorodifluoromethane	ND	ug/M3	0.99		1	09/24/21	09/24/21 11:31	1055
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 11:31	1055
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 11:31	1055
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 11:31	1055
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 11:31	1055
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 11:31	1055
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/24/21	09/24/21 11:31	1055
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 11:31	1055
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 11:31	1055
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 11:31	1055
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/24/21	09/24/21 11:31	1055
Ethyl Acetate	ND	ug/M3	0.72		1	09/24/21	09/24/21 11:31	1055
Ethylbenzene	ND	ug/M3	0.43		1	09/24/21	09/24/21 11:31	1055
4-Ethyltoluene	ND	ug/M3	0.98		1	09/24/21	09/24/21 11:31	1055

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Class 8 **Date/Time Sampled: 09/17/2021 19:51** **PSS Sample ID: 21092007-008**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	**6.9**	ug/M3	0.82		1	09/24/21	09/24/21 11:31	1055
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/24/21	09/24/21 11:31	1055
n-Hexane	ND	ug/M3	14		1	09/24/21	09/24/21 11:31	1055
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 11:31	1055
Isopropylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 11:31	1055
Methylene Chloride	ND	ug/M3	14		1	09/24/21	09/24/21 11:31	1055
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 11:31	1055
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/24/21	09/24/21 11:31	1055
Naphthalene	**1.2**	ug/M3	0.52		1	09/24/21	09/24/21 11:31	1055
Propylene	ND	ug/M3	1.7		1	09/24/21	09/24/21 11:31	1055
n-Propylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 11:31	1055
Styrene	ND	ug/M3	4.3		1	09/24/21	09/24/21 11:31	1055
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 11:31	1055
Tetrachloroethene	ND	ug/M3	1.4		1	09/24/21	09/24/21 11:31	1055
Tetrahydrofuran	ND	ug/M3	0.59		1	09/24/21	09/24/21 11:31	1055
Toluene	**4.9**	ug/M3	0.38		1	09/24/21	09/24/21 11:31	1055
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/24/21	09/24/21 11:31	1055
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 11:31	1055
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 11:31	1055
Trichloroethene	ND	ug/M3	1.1		1	09/24/21	09/24/21 11:31	1055
Trichlorofluoromethane	**1.2**	ug/M3	1.1		1	09/24/21	09/24/21 11:31	1055
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 11:31	1055
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 11:31	1055
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 11:31	1055
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/24/21	09/24/21 11:31	1055
Vinyl acetate	ND	ug/M3	1.8		1	09/24/21	09/24/21 11:31	1055
Bromoethene	ND	ug/M3	0.87		1	09/24/21	09/24/21 11:31	1055
Vinyl chloride	ND	ug/M3	0.51		1	09/24/21	09/24/21 11:31	1055
m&p-Xylene	**0.87**	ug/M3	0.87		1	09/24/21	09/24/21 11:31	1055
o-Xylene	ND	ug/M3	0.43		1	09/24/21	09/24/21 11:31	1055

Surrogate(s)	*Recovery*		*Limits*				
4-Bromofluorobenzene	*110*	*%*	*87-120*		*1*	*09/24/21*	*09/24/21 11:31*	*1055*

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Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Class 11 **Date/Time Sampled: 09/17/2021 19:55** **PSS Sample ID: 21092007-009**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**20**	ug/M3	9.5		1	09/24/21	09/24/21 12:58	1055
Benzene	**0.32**	ug/M3	0.32		1	09/24/21	09/24/21 12:58	1055
Benzyl Chloride	ND	ug/M3	1.0		1	09/24/21	09/24/21 12:58	1055
Bromodichloromethane	ND	ug/M3	1.3		1	09/24/21	09/24/21 12:58	1055
Bromoform	ND	ug/M3	2.1		1	09/24/21	09/24/21 12:58	1055
Bromomethane	ND	ug/M3	0.78		1	09/24/21	09/24/21 12:58	1055
1,3-Butadiene	ND	ug/M3	0.44		1	09/24/21	09/24/21 12:58	1055
2-Butanone (MEK)	**1.9**	ug/M3	1.5		1	09/24/21	09/24/21 12:58	1055
Carbon Disulfide	ND	ug/M3	12		1	09/24/21	09/24/21 12:58	1055
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/24/21	09/24/21 12:58	1055
Chlorobenzene	ND	ug/M3	0.92		1	09/24/21	09/24/21 12:58	1055
Chloroethane	ND	ug/M3	0.53		1	09/24/21	09/24/21 12:58	1055
Chloroform	**4.0**	ug/M3	0.98		1	09/24/21	09/24/21 12:58	1055
Chloromethane	**0.95**	ug/M3	0.41		1	09/24/21	09/24/21 12:58	1055
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/24/21	09/24/21 12:58	1055
Cyclohexane	ND	ug/M3	0.69		1	09/24/21	09/24/21 12:58	1055
Dibromochloromethane	ND	ug/M3	1.7		1	09/24/21	09/24/21 12:58	1055
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 12:58	1055
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 12:58	1055
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 12:58	1055
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 12:58	1055
Dichlorodifluoromethane	**1.4**	ug/M3	0.99		1	09/24/21	09/24/21 12:58	1055
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 12:58	1055
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 12:58	1055
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 12:58	1055
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 12:58	1055
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 12:58	1055
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/24/21	09/24/21 12:58	1055
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 12:58	1055
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 12:58	1055
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 12:58	1055
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/24/21	09/24/21 12:58	1055
Ethyl Acetate	ND	ug/M3	0.72		1	09/24/21	09/24/21 12:58	1055
Ethylbenzene	ND	ug/M3	0.43		1	09/24/21	09/24/21 12:58	1055
4-Ethyltoluene	ND	ug/M3	0.98		1	09/24/21	09/24/21 12:58	1055

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Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Class 11 **Date/Time Sampled: 09/17/2021 19:55** **PSS Sample ID: 21092007-009**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	**15**	ug/M3	0.82		1	09/24/21	09/24/21 12:58	1055
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/24/21	09/24/21 12:58	1055
n-Hexane	ND	ug/M3	14		1	09/24/21	09/24/21 12:58	1055
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 12:58	1055
Isopropylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 12:58	1055
Methylene Chloride	**18**	ug/M3	14		1	09/24/21	09/24/21 12:58	1055
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 12:58	1055
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/24/21	09/24/21 12:58	1055
Naphthalene	**2.8**	ug/M3	0.52		1	09/24/21	09/24/21 12:58	1055
Propylene	ND	ug/M3	1.7		1	09/24/21	09/24/21 12:58	1055
n-Propylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 12:58	1055
Styrene	ND	ug/M3	4.3		1	09/24/21	09/24/21 12:58	1055
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 12:58	1055
Tetrachloroethene	ND	ug/M3	1.4		1	09/24/21	09/24/21 12:58	1055
Tetrahydrofuran	ND	ug/M3	0.59		1	09/24/21	09/24/21 12:58	1055
Toluene	**7.5**	ug/M3	0.38		1	09/24/21	09/24/21 12:58	1055
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/24/21	09/24/21 12:58	1055
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 12:58	1055
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 12:58	1055
Trichloroethene	ND	ug/M3	1.1		1	09/24/21	09/24/21 12:58	1055
Trichlorofluoromethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 12:58	1055
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 12:58	1055
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 12:58	1055
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 12:58	1055
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/24/21	09/24/21 12:58	1055
Vinyl acetate	ND	ug/M3	1.8		1	09/24/21	09/24/21 12:58	1055
Bromoethene	ND	ug/M3	0.87		1	09/24/21	09/24/21 12:58	1055
Vinyl chloride	ND	ug/M3	0.51		1	09/24/21	09/24/21 12:58	1055
m&p-Xylene	**1.1**	ug/M3	0.87		1	09/24/21	09/24/21 12:58	1055
o-Xylene	**0.52**	ug/M3	0.43		1	09/24/21	09/24/21 12:58	1055

Surrogate(s)	***Recovery***		***Limits***			
4-Bromofluorobenzene	*109*	*%*	*87-120*	*1*	*09/24/21*	*09/24/21 12:58*	*1055*

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Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Hall 15-17 **Date/Time Sampled: 09/17/2021 19:58** **PSS Sample ID: 21092007-010**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**22**	ug/M3	9.5		1	09/24/21	09/24/21 13:55	1055
Benzene	**0.32**	ug/M3	0.32		1	09/24/21	09/24/21 13:55	1055
Benzyl Chloride	ND	ug/M3	1.0		1	09/24/21	09/24/21 13:55	1055
Bromodichloromethane	ND	ug/M3	1.3		1	09/24/21	09/24/21 13:55	1055
Bromoform	ND	ug/M3	2.1		1	09/24/21	09/24/21 13:55	1055
Bromomethane	ND	ug/M3	0.78		1	09/24/21	09/24/21 13:55	1055
1,3-Butadiene	ND	ug/M3	0.44		1	09/24/21	09/24/21 13:55	1055
2-Butanone (MEK)	**2.1**	ug/M3	1.5		1	09/24/21	09/24/21 13:55	1055
Carbon Disulfide	ND	ug/M3	12		1	09/24/21	09/24/21 13:55	1055
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/24/21	09/24/21 13:55	1055
Chlorobenzene	ND	ug/M3	0.92		1	09/24/21	09/24/21 13:55	1055
Chloroethane	ND	ug/M3	0.53		1	09/24/21	09/24/21 13:55	1055
Chloroform	**4.1**	ug/M3	0.98		1	09/24/21	09/24/21 13:55	1055
Chloromethane	**0.95**	ug/M3	0.41		1	09/24/21	09/24/21 13:55	1055
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/24/21	09/24/21 13:55	1055
Cyclohexane	ND	ug/M3	0.69		1	09/24/21	09/24/21 13:55	1055
Dibromochloromethane	ND	ug/M3	1.7		1	09/24/21	09/24/21 13:55	1055
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 13:55	1055
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 13:55	1055
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 13:55	1055
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 13:55	1055
Dichlorodifluoromethane	**1.4**	ug/M3	0.99		1	09/24/21	09/24/21 13:55	1055
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 13:55	1055
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 13:55	1055
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 13:55	1055
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 13:55	1055
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 13:55	1055
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/24/21	09/24/21 13:55	1055
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 13:55	1055
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 13:55	1055
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 13:55	1055
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/24/21	09/24/21 13:55	1055
Ethyl Acetate	ND	ug/M3	0.72		1	09/24/21	09/24/21 13:55	1055
Ethylbenzene	ND	ug/M3	0.43		1	09/24/21	09/24/21 13:55	1055
4-Ethyltoluene	ND	ug/M3	0.98		1	09/24/21	09/24/21 13:55	1055

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Hall 15-17 **Date/Time Sampled: 09/17/2021 19:58** **PSS Sample ID: 21092007-010**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	**15**	ug/M3	0.82		1	09/24/21	09/24/21 13:55	1055
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/24/21	09/24/21 13:55	1055
n-Hexane	ND	ug/M3	14		1	09/24/21	09/24/21 13:55	1055
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 13:55	1055
Isopropylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 13:55	1055
Methylene Chloride	**51**	ug/M3	14		1	09/24/21	09/24/21 13:55	1055
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 13:55	1055
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/24/21	09/24/21 13:55	1055
Naphthalene	**1.3**	ug/M3	0.52		1	09/24/21	09/24/21 13:55	1055
Propylene	ND	ug/M3	1.7		1	09/24/21	09/24/21 13:55	1055
n-Propylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 13:55	1055
Styrene	ND	ug/M3	4.3		1	09/24/21	09/24/21 13:55	1055
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 13:55	1055
Tetrachloroethene	ND	ug/M3	1.4		1	09/24/21	09/24/21 13:55	1055
Tetrahydrofuran	ND	ug/M3	0.59		1	09/24/21	09/24/21 13:55	1055
Toluene	**5.2**	ug/M3	0.38		1	09/24/21	09/24/21 13:55	1055
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/24/21	09/24/21 13:55	1055
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 13:55	1055
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 13:55	1055
Trichloroethene	ND	ug/M3	1.1		1	09/24/21	09/24/21 13:55	1055
Trichlorofluoromethane	**1.1**	ug/M3	1.1		1	09/24/21	09/24/21 13:55	1055
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 13:55	1055
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 13:55	1055
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 13:55	1055
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/24/21	09/24/21 13:55	1055
Vinyl acetate	ND	ug/M3	1.8		1	09/24/21	09/24/21 13:55	1055
Bromoethene	ND	ug/M3	0.87		1	09/24/21	09/24/21 13:55	1055
Vinyl chloride	ND	ug/M3	0.51		1	09/24/21	09/24/21 13:55	1055
m&p-Xylene	**0.91**	ug/M3	0.87		1	09/24/21	09/24/21 13:55	1055
o-Xylene	ND	ug/M3	0.43		1	09/24/21	09/24/21 13:55	1055

Surrogate(s)	*Recovery*		*Limits*				
4-Bromofluorobenzene	*110*	*%*	*87-120*		*1*	*09/24/21*	*09/24/21 13:55*	*1055*

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Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Hall 38-39 **Date/Time Sampled: 09/17/2021 19:25** **PSS Sample ID: 21092007-011**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**12**	ug/M3	9.5		1	09/24/21	09/24/21 14:50	1055
Benzene	ND	ug/M3	0.32		1	09/24/21	09/24/21 14:50	1055
Benzyl Chloride	ND	ug/M3	1.0		1	09/24/21	09/24/21 14:50	1055
Bromodichloromethane	ND	ug/M3	1.3		1	09/24/21	09/24/21 14:50	1055
Bromoform	ND	ug/M3	2.1		1	09/24/21	09/24/21 14:50	1055
Bromomethane	ND	ug/M3	0.78		1	09/24/21	09/24/21 14:50	1055
1,3-Butadiene	ND	ug/M3	0.44		1	09/24/21	09/24/21 14:50	1055
2-Butanone (MEK)	ND	ug/M3	1.5		1	09/24/21	09/24/21 14:50	1055
Carbon Disulfide	ND	ug/M3	12		1	09/24/21	09/24/21 14:50	1055
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/24/21	09/24/21 14:50	1055
Chlorobenzene	ND	ug/M3	0.92		1	09/24/21	09/24/21 14:50	1055
Chloroethane	ND	ug/M3	0.53		1	09/24/21	09/24/21 14:50	1055
Chloroform	ND	ug/M3	0.98		1	09/24/21	09/24/21 14:50	1055
Chloromethane	**0.83**	ug/M3	0.41		1	09/24/21	09/24/21 14:50	1055
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/24/21	09/24/21 14:50	1055
Cyclohexane	ND	ug/M3	0.69		1	09/24/21	09/24/21 14:50	1055
Dibromochloromethane	ND	ug/M3	1.7		1	09/24/21	09/24/21 14:50	1055
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 14:50	1055
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 14:50	1055
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 14:50	1055
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 14:50	1055
Dichlorodifluoromethane	**1.4**	ug/M3	0.99		1	09/24/21	09/24/21 14:50	1055
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 14:50	1055
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 14:50	1055
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 14:50	1055
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 14:50	1055
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 14:50	1055
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/24/21	09/24/21 14:50	1055
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 14:50	1055
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 14:50	1055
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 14:50	1055
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/24/21	09/24/21 14:50	1055
Ethyl Acetate	ND	ug/M3	0.72		1	09/24/21	09/24/21 14:50	1055
Ethylbenzene	ND	ug/M3	0.43		1	09/24/21	09/24/21 14:50	1055
4-Ethyltoluene	ND	ug/M3	0.98		1	09/24/21	09/24/21 14:50	1055

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Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Hall 38-39 **Date/Time Sampled: 09/17/2021 19:25** **PSS Sample ID: 21092007-011**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS | Analytical Method: EPA TO-15 | Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/24/21	09/24/21 14:50	1055
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/24/21	09/24/21 14:50	1055
n-Hexane	ND	ug/M3	14		1	09/24/21	09/24/21 14:50	1055
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 14:50	1055
Isopropylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 14:50	1055
Methylene Chloride	**30**	ug/M3	14		1	09/24/21	09/24/21 14:50	1055
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 14:50	1055
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/24/21	09/24/21 14:50	1055
Naphthalene	ND	ug/M3	0.52		1	09/24/21	09/24/21 14:50	1055
Propylene	ND	ug/M3	1.7		1	09/24/21	09/24/21 14:50	1055
n-Propylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 14:50	1055
Styrene	ND	ug/M3	4.3		1	09/24/21	09/24/21 14:50	1055
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 14:50	1055
Tetrachloroethene	ND	ug/M3	1.4		1	09/24/21	09/24/21 14:50	1055
Tetrahydrofuran	ND	ug/M3	0.59		1	09/24/21	09/24/21 14:50	1055
Toluene	ND	ug/M3	0.38		1	09/24/21	09/24/21 14:50	1055
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/24/21	09/24/21 14:50	1055
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 14:50	1055
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 14:50	1055
Trichloroethene	ND	ug/M3	1.1		1	09/24/21	09/24/21 14:50	1055
Trichlorofluoromethane	**1.1**	ug/M3	1.1		1	09/24/21	09/24/21 14:50	1055
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 14:50	1055
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 14:50	1055
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 14:50	1055
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/24/21	09/24/21 14:50	1055
Vinyl acetate	ND	ug/M3	1.8		1	09/24/21	09/24/21 14:50	1055
Bromoethene	ND	ug/M3	0.87		1	09/24/21	09/24/21 14:50	1055
Vinyl chloride	ND	ug/M3	0.51		1	09/24/21	09/24/21 14:50	1055
m&p-Xylene	ND	ug/M3	0.87		1	09/24/21	09/24/21 14:50	1055
o-Xylene	ND	ug/M3	0.43		1	09/24/21	09/24/21 14:50	1055

Surrogate(s)	*Recovery*		*Limits*				
4-Bromofluorobenzene	*109*	*%*	*87-120*		*1*	*09/24/21*	*09/24/21 14:50*	*1055*

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Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Class 40 **Date/Time Sampled: 09/17/2021 19:26** **PSS Sample ID: 21092007-012**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**13**	ug/M3	9.5		1	09/24/21	09/24/21 15:45	1055
Benzene	ND	ug/M3	0.32		1	09/24/21	09/24/21 15:45	1055
Benzyl Chloride	ND	ug/M3	1.0		1	09/24/21	09/24/21 15:45	1055
Bromodichloromethane	ND	ug/M3	1.3		1	09/24/21	09/24/21 15:45	1055
Bromoform	ND	ug/M3	2.1		1	09/24/21	09/24/21 15:45	1055
Bromomethane	ND	ug/M3	0.78		1	09/24/21	09/24/21 15:45	1055
1,3-Butadiene	ND	ug/M3	0.44		1	09/24/21	09/24/21 15:45	1055
2-Butanone (MEK)	**1.5**	ug/M3	1.5		1	09/24/21	09/24/21 15:45	1055
Carbon Disulfide	ND	ug/M3	12		1	09/24/21	09/24/21 15:45	1055
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/24/21	09/24/21 15:45	1055
Chlorobenzene	ND	ug/M3	0.92		1	09/24/21	09/24/21 15:45	1055
Chloroethane	ND	ug/M3	0.53		1	09/24/21	09/24/21 15:45	1055
Chloroform	ND	ug/M3	0.98		1	09/24/21	09/24/21 15:45	1055
Chloromethane	**0.85**	ug/M3	0.41		1	09/24/21	09/24/21 15:45	1055
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/24/21	09/24/21 15:45	1055
Cyclohexane	ND	ug/M3	0.69		1	09/24/21	09/24/21 15:45	1055
Dibromochloromethane	ND	ug/M3	1.7		1	09/24/21	09/24/21 15:45	1055
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 15:45	1055
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 15:45	1055
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 15:45	1055
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 15:45	1055
Dichlorodifluoromethane	**1.4**	ug/M3	0.99		1	09/24/21	09/24/21 15:45	1055
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 15:45	1055
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 15:45	1055
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 15:45	1055
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 15:45	1055
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 15:45	1055
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/24/21	09/24/21 15:45	1055
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 15:45	1055
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 15:45	1055
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 15:45	1055
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/24/21	09/24/21 15:45	1055
Ethyl Acetate	ND	ug/M3	0.72		1	09/24/21	09/24/21 15:45	1055
Ethylbenzene	ND	ug/M3	0.43		1	09/24/21	09/24/21 15:45	1055
4-Ethyltoluene	ND	ug/M3	0.98		1	09/24/21	09/24/21 15:45	1055

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Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Class 40 **Date/Time Sampled: 09/17/2021 19:26** **PSS Sample ID: 21092007-012**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/24/21	09/24/21 15:45	1055
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/24/21	09/24/21 15:45	1055
n-Hexane	ND	ug/M3	14		1	09/24/21	09/24/21 15:45	1055
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 15:45	1055
Isopropylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 15:45	1055
Methylene Chloride	**28**	ug/M3	14		1	09/24/21	09/24/21 15:45	1055
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 15:45	1055
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/24/21	09/24/21 15:45	1055
Naphthalene	ND	ug/M3	0.52		1	09/24/21	09/24/21 15:45	1055
Propylene	ND	ug/M3	1.7		1	09/24/21	09/24/21 15:45	1055
n-Propylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 15:45	1055
Styrene	ND	ug/M3	4.3		1	09/24/21	09/24/21 15:45	1055
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 15:45	1055
Tetrachloroethene	ND	ug/M3	1.4		1	09/24/21	09/24/21 15:45	1055
Tetrahydrofuran	ND	ug/M3	0.59		1	09/24/21	09/24/21 15:45	1055
Toluene	**2.1**	ug/M3	0.38		1	09/24/21	09/24/21 15:45	1055
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/24/21	09/24/21 15:45	1055
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 15:45	1055
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 15:45	1055
Trichloroethene	ND	ug/M3	1.1		1	09/24/21	09/24/21 15:45	1055
Trichlorofluoromethane	**1.2**	ug/M3	1.1		1	09/24/21	09/24/21 15:45	1055
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 15:45	1055
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 15:45	1055
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 15:45	1055
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/24/21	09/24/21 15:45	1055
Vinyl acetate	ND	ug/M3	1.8		1	09/24/21	09/24/21 15:45	1055
Bromoethene	ND	ug/M3	0.87		1	09/24/21	09/24/21 15:45	1055
Vinyl chloride	ND	ug/M3	0.51		1	09/24/21	09/24/21 15:45	1055
m&p-Xylene	ND	ug/M3	0.87		1	09/24/21	09/24/21 15:45	1055
o-Xylene	ND	ug/M3	0.43		1	09/24/21	09/24/21 15:45	1055

Surrogate(s)	*Recovery*		*Limits*				
4-Bromofluorobenzene	*109*	*%*	*87-120*		*1*	*09/24/21*	*09/24/21 15:45*	*1055*

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Hall 45-46 **Date/Time Sampled: 09/17/2021 19:29** **PSS Sample ID: 21092007-013**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS Analytical Method: EPA TO-15 Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
Acetone	**13**	ug/M3	9.5		1	09/24/21	09/24/21 16:39	1055
Benzene	ND	ug/M3	0.32		1	09/24/21	09/24/21 16:39	1055
Benzyl Chloride	ND	ug/M3	1.0		1	09/24/21	09/24/21 16:39	1055
Bromodichloromethane	ND	ug/M3	1.3		1	09/24/21	09/24/21 16:39	1055
Bromoform	ND	ug/M3	2.1		1	09/24/21	09/24/21 16:39	1055
Bromomethane	ND	ug/M3	0.78		1	09/24/21	09/24/21 16:39	1055
1,3-Butadiene	ND	ug/M3	0.44		1	09/24/21	09/24/21 16:39	1055
2-Butanone (MEK)	ND	ug/M3	1.5		1	09/24/21	09/24/21 16:39	1055
Carbon Disulfide	ND	ug/M3	12		1	09/24/21	09/24/21 16:39	1055
Carbon Tetrachloride	ND	ug/M3	1.3		1	09/24/21	09/24/21 16:39	1055
Chlorobenzene	ND	ug/M3	0.92		1	09/24/21	09/24/21 16:39	1055
Chloroethane	ND	ug/M3	0.53		1	09/24/21	09/24/21 16:39	1055
Chloroform	**1.9**	ug/M3	0.98		1	09/24/21	09/24/21 16:39	1055
Chloromethane	**0.81**	ug/M3	0.41		1	09/24/21	09/24/21 16:39	1055
Allyl Chloride (3-Chloropropene)	ND	ug/M3	0.63		1	09/24/21	09/24/21 16:39	1055
Cyclohexane	ND	ug/M3	0.69		1	09/24/21	09/24/21 16:39	1055
Dibromochloromethane	ND	ug/M3	1.7		1	09/24/21	09/24/21 16:39	1055
1,2-Dibromoethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 16:39	1055
1,2-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 16:39	1055
1,3-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 16:39	1055
1,4-Dichlorobenzene	ND	ug/M3	1.2		1	09/24/21	09/24/21 16:39	1055
Dichlorodifluoromethane	**1.3**	ug/M3	0.99		1	09/24/21	09/24/21 16:39	1055
1,1-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 16:39	1055
1,2-Dichloroethane	ND	ug/M3	0.81		1	09/24/21	09/24/21 16:39	1055
1,1-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 16:39	1055
cis-1,2-Dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 16:39	1055
trans-1,2-dichloroethene	ND	ug/M3	0.79		1	09/24/21	09/24/21 16:39	1055
1,2-Dichloropropane	ND	ug/M3	1.8		1	09/24/21	09/24/21 16:39	1055
cis-1,3-Dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 16:39	1055
trans-1,3-dichloropropene	ND	ug/M3	0.91		1	09/24/21	09/24/21 16:39	1055
1,2-Dichlorotetrafluoroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 16:39	1055
1,4-Dioxane (P-Dioxane)	ND	ug/M3	3.6		1	09/24/21	09/24/21 16:39	1055
Ethyl Acetate	ND	ug/M3	0.72		1	09/24/21	09/24/21 16:39	1055
Ethylbenzene	ND	ug/M3	0.43		1	09/24/21	09/24/21 16:39	1055
4-Ethyltoluene	ND	ug/M3	0.98		1	09/24/21	09/24/21 16:39	1055

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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Sample ID: CK - Hall 45-46 **Date/Time Sampled: 09/17/2021 19:29** **PSS Sample ID: 21092007-013**
Matrix: AIR **Date/Time Received: 09/20/2021 15:10**

VOCs in Air by GC/MS | Analytical Method: EPA TO-15 | Preparation Method: TO-15P

Qualifier(s): See Batch 187911 on Case Narrative.

	Result	Units	RL	Flag	Dil	Prepared	Analyzed	Analyst
n-Heptane	ND	ug/M3	0.82		1	09/24/21	09/24/21 16:39	1055
Hexachlorobutadiene	ND	ug/M3	2.1		1	09/24/21	09/24/21 16:39	1055
n-Hexane	ND	ug/M3	14		1	09/24/21	09/24/21 16:39	1055
2-Hexanone (MBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 16:39	1055
Isopropylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 16:39	1055
Methylene Chloride	**22**	ug/M3	14		1	09/24/21	09/24/21 16:39	1055
4-Methyl-2-Pentanone (MIBK)	ND	ug/M3	2.0		1	09/24/21	09/24/21 16:39	1055
Methyl-t-Butyl Ether	ND	ug/M3	0.36		1	09/24/21	09/24/21 16:39	1055
Naphthalene	ND	ug/M3	0.52		1	09/24/21	09/24/21 16:39	1055
Propylene	ND	ug/M3	1.7		1	09/24/21	09/24/21 16:39	1055
n-Propylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 16:39	1055
Styrene	ND	ug/M3	4.3		1	09/24/21	09/24/21 16:39	1055
1,1,2,2-Tetrachloroethane	ND	ug/M3	1.4		1	09/24/21	09/24/21 16:39	1055
Tetrachloroethene	ND	ug/M3	1.4		1	09/24/21	09/24/21 16:39	1055
Tetrahydrofuran	ND	ug/M3	0.59		1	09/24/21	09/24/21 16:39	1055
Toluene	**1.7**	ug/M3	0.38		1	09/24/21	09/24/21 16:39	1055
1,2,4-Trichlorobenzene	ND	ug/M3	1.5		1	09/24/21	09/24/21 16:39	1055
1,1,1-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 16:39	1055
1,1,2-Trichloroethane	ND	ug/M3	1.1		1	09/24/21	09/24/21 16:39	1055
Trichloroethene	ND	ug/M3	1.1		1	09/24/21	09/24/21 16:39	1055
Trichlorofluoromethane	**1.3**	ug/M3	1.1		1	09/24/21	09/24/21 16:39	1055
1,1,2-Trichlorotrifluoroethane	ND	ug/M3	1.5		1	09/24/21	09/24/21 16:39	1055
1,2,4-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 16:39	1055
1,3,5-Trimethylbenzene	ND	ug/M3	0.98		1	09/24/21	09/24/21 16:39	1055
2,2,4-Trimethylpentane	ND	ug/M3	0.93		1	09/24/21	09/24/21 16:39	1055
Vinyl acetate	ND	ug/M3	1.8		1	09/24/21	09/24/21 16:39	1055
Bromoethene	ND	ug/M3	0.87		1	09/24/21	09/24/21 16:39	1055
Vinyl chloride	ND	ug/M3	0.51		1	09/24/21	09/24/21 16:39	1055
m&p-Xylene	ND	ug/M3	0.87		1	09/24/21	09/24/21 16:39	1055
o-Xylene	ND	ug/M3	0.43		1	09/24/21	09/24/21 16:39	1055

Surrogate(s)	*Recovery*		*Limits*				
4-Bromofluorobenzene	*108*	*%*	*87-120*		*1*	*09/24/21*	*09/24/21 16:39*	*1055*

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Project Name: ACPS IAQ Testing

PSS Project No.: 21092007

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

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

Sample Receipt:

Soil gas/indoor air not indicated on COC; samples are indoor air.
Received additional canisters and flow controllers not listed on COC; logged in for cleaning.
Sample 006 received at an incoming pressure difference greater than 5"Hg.
Indoor air sample 006 received at an incoming pressure greater than 10"Hg; logged in for cleaning.

Analytical:

VOCs in Air by GC/MS

Batch: 187911

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) exceedances identified; see QC summary. Exceedances meet marginal exceedance criteria.

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

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Lab Chronology

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Method	Client Sample ID	Analysis Type	PSS Sample ID	Mtx	Prep Batch	Analytical Batch	Prepared	Analyzed
EPA TO-15	CK - Outdoor	Initial	21092007-001	A	87817	187911	09/27/2021 02:00	09/24/2021 04:23
	CK - Office	Initial	21092007-002	A	87817	187911	09/27/2021 02:00	09/24/2021 05:17
	CK - Library	Initial	21092007-003	A	87817	187911	09/27/2021 02:00	09/24/2021 07:50
	CK - Cafeteria	Initial	21092007-004	A	87817	187911	09/27/2021 02:00	09/24/2021 08:45
	CK - Class 29	Initial	21092007-005	A	87817	187911	09/27/2021 02:00	09/24/2021 09:40
	CK - 20 - 19	Initial	21092007-007	A	87817	187911	09/27/2021 02:00	09/24/2021 10:35
	CK - Class 8	Initial	21092007-008	A	87817	187911	09/27/2021 02:00	09/24/2021 11:31
	CK - Class 11	Initial	21092007-009	A	87817	187911	09/27/2021 02:00	09/24/2021 12:58
	CK - Hall 15-17	Initial	21092007-010	A	87817	187911	09/27/2021 02:00	09/24/2021 13:55
	CK - Hall 38-39	Initial	21092007-011	A	87817	187911	09/27/2021 02:00	09/24/2021 14:50
	CK - Class 40	Initial	21092007-012	A	87817	187911	09/27/2021 02:00	09/24/2021 15:45
	CK - Hall 45-46	Initial	21092007-013	A	87817	187911	09/27/2021 02:00	09/24/2021 16:39
	87817-1-BKS	BKS	87817-1-BKS	A	87817	187911	09/24/2021 15:03	09/23/2021 23:05
	87817-1-BLK	BLK	87817-1-BLK	A	87817	187911	09/24/2021 15:03	09/24/2021 01:46
	87817-1-BSD	BSD	87817-1-BSD	A	87817	187911	09/24/2021 15:03	09/23/2021 23:57

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QC Summary

Project Name ACPS IAQ Testing
PSS Project No.: 21092007

Analytical Method: EPA TO-15 Prep Method: TO-15P
Seq Number: 187911 Matrix: Air Date Prep: 09/24/21
MB Sample Id: 87817-1-BLK LCS Sample Id: 87817-1-BKS LCSD Sample Id: 87817-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
Acetone	<9.498	11.87	10.26	86	10.52	89	69-118	3	25	ug/M3	
Benzene	<0.3193	15.97	13.86	87	13.86	87	79-107	0	25	ug/M3	
Benzyl Chloride	<1.035	25.87	28.15	109	28.36	110	78-143	1	25	ug/M3	
Bromodichloromethane	<1.340	33.49	31.48	94	31.41	94	81-111	0	25	ug/M3	
Bromoform	<2.067	51.67	60.56	117	60.97	118	78-133	1	25	ug/M3	
Bromomethane	<0.7764	19.41	18.94	98	19.18	99	76-116	1	25	ug/M3	
1,3-Butadiene	<0.4423	11.06	8.359	76	8.315	75	70-116	1	25	ug/M3	
2-Butanone (MEK)	<1.474	14.74	11.97	81	12.26	83	74-114	2	25	ug/M3	
Carbon Disulfide	<12.45	15.56	<12.45	0	<12.45	0	79-117	NC	25	ug/M3	L
Carbon Tetrachloride	<1.258	31.45	31.64	101	31.51	100	81-110	1	25	ug/M3	
Chlorobenzene	<0.9204	23.01	24.85	108	25.03	109	84-119	1	25	ug/M3	
Chloroethane	<0.5276	13.19	11.45	87	11.63	88	72-118	1	25	ug/M3	
Chloroform	<0.9761	24.40	21.47	88	21.62	89	82-108	1	25	ug/M3	
Chloromethane	<0.4128	10.32	8.422	82	8.608	83	64-121	1	25	ug/M3	
Allyl Chloride (3-Chloropropene)	<0.6258	15.64	12.33	79	12.42	79	77-113	0	25	ug/M3	
Cyclohexane	<0.6881	17.20	14.18	82	14.18	82	82-110	0	25	ug/M3	
Dibromochloromethane	<1.703	42.58	44.71	105	44.79	105	82-113	0	25	ug/M3	
1,2-Dibromoethane	<1.536	38.40	38.86	101	39.02	102	86-110	1	25	ug/M3	
1,2-Dichlorobenzene	<1.202	30.05	35.34	118	35.46	118	83-130	0	25	ug/M3	
1,3-Dichlorobenzene	<1.202	30.05	34.98	116	35.16	117	85-128	1	25	ug/M3	
1,4-Dichlorobenzene	<1.202	30.05	34.32	114	34.50	115	82-132	1	25	ug/M3	
Dichlorodifluoromethane	<0.9887	24.72	21.75	88	21.46	87	62-122	1	25	ug/M3	
1,1-Dichloroethane	<0.8092	20.23	17.56	87	17.52	87	79-110	0	25	ug/M3	
1,2-Dichloroethane	<0.8092	20.23	18.97	94	18.97	94	75-112	0	25	ug/M3	
1,1-Dichloroethene	<0.7926	19.82	17.48	88	17.64	89	80-110	1	25	ug/M3	
cis-1,2-Dichloroethene	<0.7926	19.82	17.20	87	17.16	87	84-109	0	25	ug/M3	
trans-1,2-dichloroethene	<0.7926	19.82	17.40	88	17.36	88	81-109	0	25	ug/M3	
1,2-Dichloropropane	<1.848	23.10	20.42	88	20.51	89	81-111	1	25	ug/M3	
cis-1,3-Dichloropropene	<0.9074	22.68	20.87	92	20.91	92	89-109	0	25	ug/M3	
trans-1,3-dichloropropene	<0.9074	22.68	21.10	93	21.19	93	89-114	0	25	ug/M3	
1,2-Dichlorotetrafluoroethane	<1.398	34.94	33.33	95	33.61	96	72-116	1	25	ug/M3	
1,4-Dioxane (P-Dioxane)	<3.602	18.01	17.54	97	17.43	97	70-120	0	25	ug/M3	
Ethyl Acetate	<0.7204	18.01	15.45	86	15.71	87	87-124	1	25	ug/M3	L
Ethylbenzene	<0.4340	21.70	22.22	102	22.40	103	87-125	1	25	ug/M3	
4-Ethyltoluene	<0.9827	24.57	25.80	105	26.04	106	87-127	1	25	ug/M3	
n-Heptane	<0.8193	20.48	16.80	82	16.84	82	90-110	0	25	ug/M3	L
Hexachlorobutadiene	<2.132	53.30	64.07	120	64.18	120	83-126	0	25	ug/M3	
n-Hexane	<14.09	17.61	<14.09	0	<14.09	0	84-114	NC	25	ug/M3	L
2-Hexanone (MBK)	<2.047	20.47	17.28	84	17.16	84	68-133	0	25	ug/M3	
Isopropylbenzene	<0.9827	24.57	25.65	104	25.75	105	88-117	1	25	ug/M3	
Methylene Chloride	<13.89	17.36	15.42	89	15.59	90	63-130	1	25	ug/M3	
4-Methyl-2-Pentanone (MIBK)	<2.047	20.47	16.71	82	16.79	82	78-115	0	25	ug/M3	
Methyl-t-Butyl Ether	<0.3604	18.02	15.64	87	15.68	87	86-109	0	25	ug/M3	
Naphthalene	<0.5240	26.20	37.41	143	37.46	143	65-129	0	25	ug/M3	H
Propylene	<1.720	8.602	6.469	75	6.658	77	58-129	3	25	ug/M3	
n-Propylbenzene	<0.9828	24.57	26.09	106	26.54	108	86-121	2	25	ug/M3	
Styrene	<4.258	21.29	22.05	104	22.18	104	86-137	0	25	ug/M3	
1,1,2,2-Tetrachloroethane	<1.373	34.31	35.21	103	35.34	103	88-119	0	25	ug/M3	
Tetrachloroethene	<1.356	33.90	36.21	107	36.41	107	86-107	0	25	ug/M3	
Tetrahydrofuran	<0.5895	14.74	10.88	74	10.88	74	80-117	0	25	ug/M3	L
Toluene	<0.3767	18.83	17.51	93	17.51	93	91-106	0	25	ug/M3	

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QC Summary

Project Name ACPS IAQ Testing
PSS Project No.: 21092007

Analytical Method: EPA TO-15 Prep Method: TO-15P
Seq Number: 187911 Matrix: Air Date Prep: 09/24/21
MB Sample Id: 87817-1-BLK LCS Sample Id: 87817-1-BKS LCSD Sample Id: 87817-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Flag
1,2,4-Trichlorobenzene	<1.484	37.09	52.15	141	52.15	141	75-126	0	25	ug/M3	H
1,1,1-Trichloroethane	<1.091	27.27	25.25	93	25.25	93	81-109	0	25	ug/M3	
1,1,2-Trichloroethane	<1.091	27.27	25.36	93	25.47	93	83-111	0	25	ug/M3	
Trichloroethene	<1.074	26.86	25.84	96	25.95	97	88-106	1	25	ug/M3	
Trichlorofluoromethane	<1.123	28.08	28.31	101	28.48	101	78-109	0	25	ug/M3	
1,1,2-Trichlorotrifluoroethane	<1.532	38.31	37.23	97	37.46	98	84-107	1	25	ug/M3	
1,2,4-Trimethylbenzene	<0.9828	24.57	25.36	103	25.41	103	86-130	0	25	ug/M3	
1,3,5-Trimethylbenzene	<0.9828	24.57	24.91	101	25.06	102	87-122	1	25	ug/M3	
2,2,4-Trimethylpentane	<0.9339	23.35	19.19	82	19.10	82	78-107	0	25	ug/M3	
Vinyl acetate	<1.760	17.60	14.75	84	14.82	84	76-119	0	25	ug/M3	
Bromoethene	<0.8746	21.86	21.60	99	21.60	99	77-117	0	25	ug/M3	
Vinyl chloride	<0.5110	12.78	11.27	88	11.50	90	72-116	2	25	ug/M3	
m&p-Xylene	<0.8681	43.41	45.05	104	45.27	104	88-122	0	25	ug/M3	
o-Xylene	<0.4341	21.70	21.96	101	22.01	101	89-120	0	25	ug/M3	

Surrogate	MB %Rec	MB Flag	LCS Result	LCS Flag	LCSD Result	LCSD Flag	Limits	Units
4-Bromofluorobenzene	107		105		105		87-120	%

F = RPD exceeded the laboratory control limits
X = Recovery of MS, MSD or both outside of QC Criteria
H= Recovery of BS,BSD or both exceeded the laboratory control limits
L = Recovery of BS,BSD or both below the laboratory control limits

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QC Summary

Project Name ACPS IAQ Testing
PSS Project No.: 21092007

Analytical Method: EPA TO-15
Seq Number: 187911 Matrix: Air
CCV Sample Id: CCV-01 Analyzed Date: 09/23/21 21:23

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
Acetone	11.87	9.908	83	70-130	ug/M3	
Benzene	15.97	13.87	87	70-130	ug/M3	
Benzyl Chloride	25.87	26.07	101	70-130	ug/M3	
Bromodichloromethane	33.49	31.14	93	70-130	ug/M3	
Bromoform	51.67	58.96	114	70-130	ug/M3	
Bromomethane	19.41	18.91	97	70-130	ug/M3	
1,3-Butadiene	11.06	8.531	77	70-130	ug/M3	
2-Butanone (MEK)	14.74	11.95	81	70-130	ug/M3	
Carbon Disulfide	15.56	12.17	78	70-130	ug/M3	
Carbon Tetrachloride	31.45	30.70	98	70-130	ug/M3	
Chlorobenzene	23.01	24.77	108	70-130	ug/M3	
Chloroethane	13.19	11.50	87	70-130	ug/M3	
Chloroform	24.40	21.66	89	70-130	ug/M3	
Chloromethane	10.32	8.366	81	70-130	ug/M3	
Allyl Chloride (3-Chloropropene)	15.64	12.68	81	70-130	ug/M3	
Cyclohexane	17.20	14.31	83	70-130	ug/M3	
Dibromochloromethane	42.58	43.99	103	70-130	ug/M3	
1,2-Dibromoethane	38.40	38.61	101	70-130	ug/M3	
1,2-Dichlorobenzene	30.05	33.93	113	70-130	ug/M3	
1,3-Dichlorobenzene	30.05	33.97	113	70-130	ug/M3	
1,4-Dichlorobenzene	30.05	33.21	111	70-130	ug/M3	
Dichlorodifluoromethane	24.72	23.79	96	70-130	ug/M3	
1,1-Dichloroethane	20.23	17.64	87	70-130	ug/M3	
1,2-Dichloroethane	20.23	19.05	94	70-130	ug/M3	
1,1-Dichloroethene	19.82	17.63	89	70-130	ug/M3	
cis-1,2-Dichloroethene	19.82	17.34	87	70-130	ug/M3	
trans-1,2-dichloroethene	19.82	17.60	89	70-130	ug/M3	
1,2-Dichloropropane	23.10	20.56	89	70-130	ug/M3	
cis-1,3-Dichloropropene	22.68	20.97	92	70-130	ug/M3	
trans-1,3-dichloropropene	22.68	21.12	93	70-130	ug/M3	
1,2-Dichlorotetrafluoroethane	34.94	33.12	95	70-130	ug/M3	
1,4-Dioxane (P-Dioxane)	18.01	17.92	100	70-130	ug/M3	
Ethyl Acetate	18.01	15.83	88	70-130	ug/M3	
Ethylbenzene	21.70	22.12	102	70-130	ug/M3	
4-Ethyltoluene	24.57	25.58	104	70-130	ug/M3	
n-Heptane	20.48	17.00	83	70-130	ug/M3	
Hexachlorobutadiene	53.30	61.48	115	70-130	ug/M3	
n-Hexane	17.61	14.09	80	70-130	ug/M3	
2-Hexanone (MBK)	20.47	17.20	84	70-130	ug/M3	
Isopropylbenzene	24.57	25.37	103	70-130	ug/M3	
Methylene Chloride	17.36	15.23	88	70-130	ug/M3	
4-Methyl-2-Pentanone (MIBK)	20.47	16.94	83	70-130	ug/M3	
Methyl-t-Butyl Ether	18.02	15.91	88	70-130	ug/M3	
Naphthalene	26.20	33.43	128	70-130	ug/M3	
Propylene	8.602	6.398	74	70-130	ug/M3	
n-Propylbenzene	24.57	25.99	106	70-130	ug/M3	
Styrene	21.29	22.37	105	70-130	ug/M3	
1,1,2,2-Tetrachloroethane	34.31	34.34	100	70-130	ug/M3	
Tetrachloroethene	33.90	36.27	107	70-130	ug/M3	
Tetrahydrofuran	14.74	11.08	75	70-130	ug/M3	
Toluene	18.83	17.50	93	70-130	ug/M3	

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QC Summary

Project Name ACPS IAQ Testing
PSS Project No.: 21092007

Analytical Method: EPA TO-15

Seq Number: 187911 Matrix: Air

CCV Sample Id: CCV-01 Analyzed Date: 09/23/21 21:23

Parameter	Spike Amount	CCV Result	CCV %Rec	Limits	Units	Flag
1,2,4-Trichlorobenzene	37.09	48.45	131	70-130	ug/M3	X
1,1,1-Trichloroethane	27.27	25.44	93	70-130	ug/M3	
1,1,2-Trichloroethane	27.27	25.36	93	70-130	ug/M3	
Trichloroethene	26.86	26.11	97	70-130	ug/M3	
Trichlorofluoromethane	28.08	28.41	101	70-130	ug/M3	
1,1,2-Trichlorotrifluoroethane	38.31	37.37	98	70-130	ug/M3	
1,2,4-Trimethylbenzene	24.57	25.15	102	70-130	ug/M3	
1,3,5-Trimethylbenzene	24.57	24.99	102	70-130	ug/M3	
2,2,4-Trimethylpentane	23.35	19.31	83	70-130	ug/M3	
Vinyl acetate	17.60	14.38	82	70-130	ug/M3	
Bromoethene	21.86	21.77	100	70-130	ug/M3	
Vinyl chloride	12.78	11.34	89	70-130	ug/M3	
m&p-Xylene	43.41	44.98	104	70-130	ug/M3	
o-Xylene	21.70	21.82	101	70-130	ug/M3	

Surrogate	CCV Result	Limits	Units	Flag
4-Bromofluorobenzene	84	50-150	%	

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QC Summary

Project Name ACPS IAQ Testing
PSS Project No.: 21092007

Analytical Method: EPA TO-15

Seq Number: 187548 Matrix: Air
Parent Sample Id: ICV-01 ICV Sample Id: ICV-01 Analyzed Date: 09/14/21 09:54

Parameter	Spike Amount	ICV Result	ICV %Rec	Limits	Units	Flag
Acetone	11.87	10.52	89	70-130	ug/M3	
Benzene	15.97	14.88	93	70-130	ug/M3	
Benzyl Chloride	25.87	27.95	108	70-130	ug/M3	
Bromodichloromethane	33.49	31.48	94	70-130	ug/M3	
Bromoform	51.67	54.66	106	70-130	ug/M3	
Bromomethane	19.41	17.08	88	70-130	ug/M3	
1,3-Butadiene	11.06	8.549	77	70-130	ug/M3	
2-Butanone (MEK)	14.74	13.68	93	70-130	ug/M3	
Carbon Disulfide	15.56	12.05	77	70-130	ug/M3	
Carbon Tetrachloride	31.45	31.32	100	70-130	ug/M3	
Chlorobenzene	23.01	23.10	100	70-130	ug/M3	
Chloroethane	13.19	11.26	85	70-130	ug/M3	
Chloroform	24.40	22.18	91	70-130	ug/M3	
Chloromethane	10.32	8.420	82	70-130	ug/M3	
Allyl Chloride (3-Chloropropene)	15.64	13.71	88	70-130	ug/M3	
Cyclohexane	17.20	16.23	94	70-130	ug/M3	
Dibromochloromethane	42.58	42.96	101	70-130	ug/M3	
1,2-Dibromoethane	38.40	37.83	99	70-130	ug/M3	
1,2-Dichlorobenzene	30.05	31.68	105	70-130	ug/M3	
1,3-Dichlorobenzene	30.05	31.29	104	70-130	ug/M3	
1,4-Dichlorobenzene	30.05	30.96	103	70-130	ug/M3	
Dichlorodifluoromethane	24.72	17.69	72	70-130	ug/M3	
1,1-Dichloroethane	20.23	18.71	92	70-130	ug/M3	
1,2-Dichloroethane	20.23	19.88	98	70-130	ug/M3	
1,1-Dichloroethene	19.82	17.75	90	70-130	ug/M3	
cis-1,2-Dichloroethene	19.82	18.79	95	70-130	ug/M3	
trans-1,2-dichloroethene	19.82	18.62	94	70-130	ug/M3	
1,2-Dichloropropane	23.10	21.92	95	70-130	ug/M3	
cis-1,3-Dichloropropene	22.68	21.95	97	70-130	ug/M3	
trans-1,3-dichloropropene	22.68	22.30	98	70-130	ug/M3	
1,2-Dichlorotetrafluoroethane	34.94	29.95	86	70-130	ug/M3	
1,4-Dioxane (P-Dioxane)	18.01	17.92	100	70-130	ug/M3	
Ethyl Acetate	18.01	17.90	99	70-130	ug/M3	
Ethylbenzene	21.70	21.28	98	70-130	ug/M3	
4-Ethyltoluene	24.57	24.38	99	70-130	ug/M3	
n-Heptane	20.48	18.00	88	70-130	ug/M3	
Hexachlorobutadiene	53.30	56.18	105	70-130	ug/M3	
n-Hexane	17.61	15.92	90	70-130	ug/M3	
2-Hexanone (MBK)	20.47	19.27	94	70-130	ug/M3	
Isopropylbenzene	24.57	24.00	98	70-130	ug/M3	
Methylene Chloride	17.36	15.95	92	70-130	ug/M3	
4-Methyl-2-Pentanone (MIBK)	20.47	18.74	92	70-130	ug/M3	
Methyl-t-Butyl Ether	18.02	16.73	93	70-130	ug/M3	
Naphthalene	26.20	33.46	128	70-130	ug/M3	
Propylene	8.602	6.916	80	70-130	ug/M3	
n-Propylbenzene	24.57	25.31	103	70-130	ug/M3	
Styrene	21.29	21.46	101	70-130	ug/M3	
1,1,2,2-Tetrachloroethane	34.31	33.88	99	70-130	ug/M3	
Tetrachloroethene	33.90	33.93	100	70-130	ug/M3	
Tetrahydrofuran	14.74	12.93	88	70-130	ug/M3	
Toluene	18.83	17.75	94	70-130	ug/M3	

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QC Summary

Project Name ACPS IAQ Testing
PSS Project No.: 21092007

Analytical Method: EPA TO-15

Seq Number: 187548 Matrix: Air
Parent Sample Id: ICV-01 ICV Sample Id: ICV-01 Analyzed Date: 09/14/21 09:54

Parameter	Spike Amount	ICV Result	ICV %Rec	Limits	Units	Flag
1,2,4-Trichlorobenzene	37.09	45.29	122	70-130	ug/M3	
1,1,1-Trichloroethane	27.27	25.76	94	70-130	ug/M3	
1,1,2-Trichloroethane	27.27	25.40	93	70-130	ug/M3	
Trichloroethene	26.86	25.64	95	70-130	ug/M3	
Trichlorofluoromethane	28.08	25.91	92	70-130	ug/M3	
1,1,2-Trichlorotrifluoroethane	38.31	35.81	93	70-130	ug/M3	
1,2,4-Trimethylbenzene	24.57	24.16	98	70-130	ug/M3	
1,3,5-Trimethylbenzene	24.57	23.72	97	70-130	ug/M3	
2,2,4-Trimethylpentane	23.35	20.86	89	70-130	ug/M3	
Vinyl acetate	17.60	16.88	96	70-130	ug/M3	
Bromoethene	21.86	19.61	90	70-130	ug/M3	
Vinyl chloride	12.78	10.68	84	70-130	ug/M3	
m&p-Xylene	43.41	43.03	99	70-130	ug/M3	
o-Xylene	21.70	20.96	97	70-130	ug/M3	

Surrogate	ICV Result	Limits	Units	Flag
4-Bromofluorobenzene	101	50-150	%	

X = Recovery outside of QC Criteria

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

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

PSS Work Order #: 2109 2007
PAGE 1 OF 2

(2) (3)

LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)	* Can ID *	Sample Reg. ID *	Canister Pressure * in field ("Hg) Start	Canister Pressure * in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	Soil Gas / Subslab *	Indoor/Ambient Air *	TO-15 Full List	Special List	REMARKS
1	CK - Outdoor	9/17/21	15:10	9/17/21	19:11	4319	12327	30	6	6	☐	☐	☑	☐	
2	CK - Office	9/17/21	15:16	9/17/21	19:13	3528	10940	30	5	6	☐	☐	☑	☐	
3	CK - Library	9/17/21	15:21	9/17/21	19:18	4313	11062	30	2	4	☐	☐	☑	☐	
4	CK - Cafeteria	9/17/21	15:26	9/17/21	19:21	4264	11060	31	6	5	☐	☐	☑	☐	
5	CK - Class 29	9/17/21	15:51	9/17/21	19:41	11197	12324	31	6	6	☐	☐	☑	☐	
6	CK - Class 26	9/17/21	15:55	9/17/21	19:44	4245	15034	30	0	30	☐	☐	☑	☐	
7	CK - 20-19	9/17/21	15:58	9/17/21	19:47	4277	10948	30	7	7	☐	☐	☑	☐	
8	CK - Class 8	9/17/21	16:03	9/17/21	19:51	4315	15036	30	6	6	☐	☐	☑	☐	
9	CK - Class 11	9/17/21	16:07	9/17/21	19:55	3564	15035	31	6	6	☐	☐	☑	☐	
10	CK - Hall 15-17	9/17/21	16:11	9/17/21	19:58	4251	13651	32	9	10	☐	☐	☑	☐	

(5)

Relinquished By: (1)	Date	Time	Received By:
Channing Jackson	9/20/21	~~10:45~~	
Relinquished By: (2)	Date	Time 1510	Received By: 9/20/21
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4) *Requested TAT (One TAT per COC)
☑ 5-Day ☐ 3-Day ☐ 2-Day
☐ Next Day ☐ Emergency ☐ Other

Shipping Carrier: CLIENT

Data Deliverables Required:

Special Instructions:

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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

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

PSS Work Order #: 21092007
PAGE 1 OF 2

(2)

LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)	* (3) Can ID *	Sample Reg. ID *	Canister Pressure * in field ("Hg) Start	Canister Pressure * in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	Soil Gas / Subslab *	Indoor/Ambient Air *	TO-15 Full List	Special List	REMARKS
11	CK - Hall 38-39	9/17/21	15:30	9/17/21	19:25	4310	13652	30	7	6	☐	☐	☑	☐	
12	CK - Class 40	9/17/21	15:32	9/17/21	19:26	3531	15037	31	6	6	☐	☐	☑	☐	
13	CK - Hall 45-46	9/17/21	15:36	9/17/21	19:29	4254	13653	31	6	5	☐	☐	☑	☐	
											☐	☐	☑	☐	
											☐	☐	☑	☐	
											☐	☐	☑	☐	
											☐	☐	☑	☐	
											☐	☐	☑	☐	
											☐	☐	☑	☐	
											☐	☐	☑	☐	

(5)

Relinquished By: (1)	Date	Time	Received By:
Channing Jackson	9/20/21	~~10:45~~	
Relinquished By: (2)	Date	Time 1510 9/20/21	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4) *Requested TAT (One TAT per COC)
☑ 5-Day ☐ 3-Day ☐ 2-Day
☐ Next Day ☐ Emergency ☐ Other

Shipping Carrier: CLIENT

Data Deliverables Required:

Special Instructions:

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TO-15 Canister and Flow Controller Check List

Check Out	Check In	(use n/a as necessary)
15 ✓	☐	**No. Canisters:**
✓		Pressure Checked (29 – 30" Hg)
✓		Top of Micro QT tight
✓		Sampling tag/label
15 ✓	☐	Stands
15 ✓	☐	**No. Flow controllers:**
	☐	Use COC pressures to evaluate sampling time accuracy
✓	☐	Leak evaluated
✓		Gauge checked / adjusted (29 – 30" Hg)
✓		Flow set
✓		Purged with N
	☐	*Checked for water if soil gas
☐	☐	~~Duplicate T-piece(s)~~
		Other items in bin:
✓		Hard Copy of O-01.05.F01 TO-15 Client Sampling Guide
✓		COC Form(s) (+1 extra)
✓		~~Client copy of bottle order~~
☐		~~STOP Notice if split IA/SG order~~
☐	☐	~~Soil Gas? wrench/nuts/ferules Qty____~~
☐		~~Tubing? purged/capped: ft_____~~
☐	☐	~~Tubing cutter~~
✓		Bin labelled, copy of BO for receiving
✓		Client survey response card
		Vapor Pins – indicate type: barbed/compression
☐	☐	Vapor Pins with sleeves: Qty_____
☐	☐	Tygon pieces/FLX Fittings: Qty_____
☐	☐	Installation tool
☐	☐	Deadblow hammer
☐	☐	Hole Brush
☐		**Additional Items (see form F06)**

Check Out

BO#/Client: 14361 / Total Environmental Concepts.

Assembled/Checked Out: Date/Initials 9/16/21 JA

Serial #s Entered in LIMS: Date/Initials AN 9/17/21

Verified: Date/Initials AN 9/17/21

Check In

Sample Receipt Checklist: Date/Initials: 9/20/21 JN

Work Order No.: 21092007

Checked In: Date/Initials _____

Notes SOIL GAS / INDOOR AIR NOT INDICATED ON C.O.C.

SAMPLE "CIL-CLASS 36" STOP PRESSURE IN FIELD RECORDED @ 0" Hg, INCOMING PRESSURE @ LAB RECORDED @ 30" Hg

Received canisters 3519 and 4246 and flow controllers 6170 and 15038 not listed on COC; logged in for cleaning

Sample Receipt Checklist (Y/N): To be completed during login

N	*All sample fields completed and accurate: Sample ID; Start/Stop Dates/Times; Canister ID (S/N); Flow Controller ID (S/N); Field Start and Stop Pressures; Soil Gas/Indoor Air.
Y	*Sampling times documented in 24 hour clock or am/pm or else verified.
N	*Incoming lab pressure w/in 5" of field stop pressure and < 10" Hg for indoor air and <15" Hg for soil gas.

***These sample check in criteria must be met or the nonconformance must be documented in the Sampling & Login case narrative field of the work order in LIMS and communicated to the PSS project manager for client notification.**

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Sample Receipt Checklist

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

Client Name Total Environmental Concepts - Lorto
Disposal Date 10/25/2021

Received By Thomas Wingate
Date Received 09/20/2021 03:10:00 PM
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 Not Provided
N/A
COC agrees with sample labels? Yes
Chain of Custody Yes

Sample Container
Custody Seal(s) Intact? Not Applicable
Appropriate for Specified Analysis? Yes
Seal(s) Signed / Dated Not Applicable
Intact? Yes
Labeled and Labels Legible? Yes

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

Preservation

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

PHASE SEPARATION SCIENCE

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410-747-8770
800-932-9047
www.phaseonline.com

Sample Receipt Checklist

Project Name: ACPS IAQ Testing
PSS Project No.: 21092007

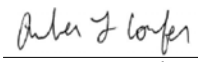
Client Name	Total Environmental Concepts - Lorto	**Received By**	Thomas Wingate
Disposal Date	10/25/2021	**Date Received**	09/20/2021 03:10:00 PM
		Delivered By	Client
		Tracking No	Not Applicable
		Logged In By	Thomas Wingate

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.

Soil gas/indoor air not indicated on COC; samples are indoor air.
Received additional canisters and flow controllers not listed on COC; logged in for cleaning.
Sample 006 received at an incoming pressure difference greater than 5"Hg.
Indoor air sample 006 received at an incoming pressure greater than 10"Hg; logged in for cleaning.

Samples Inspected/Checklist Completed By:  Date: 09/20/2021
Thomas Wingate

PM Review and Approval:  Date: 09/21/2021
Amber Confer

PHASE SEPARATION SCIENCE

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Baltimore, MD 21228
410-747-8770
800-932-9047
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Certificate of Analysis

Project Name: ACPS IAQ
PSS Project No.: 21100121

October 12, 2021

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

Reference: PSS Project No: **21100121**
Project Name: ACPS IAQ
Project Location: Cora Kelly School
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) **21100121**.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on November 5, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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

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

Sincerely,

Dan Prucnal
Laboratory Manager

PHASE SEPARATION SCIENCE

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

Explanation of Qualifiers

Project Name: ACPS IAQ
PSS Project No.: 21100121

Project ID: 4920002

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

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21100121-001	CK- Class 26	AIR	09/30/21 20:48

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

SGS GALSON

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

October 12, 2021

Account# 15354

Login# L548282

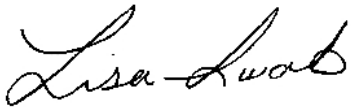
Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on October 05, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

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

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

Terms and Conditions & General Disclaimers

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

- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.

- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.

- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

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

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

State	Accreditation/Recognition	Lab ID#	Program/Sector
New York (NYSDOH)	ELAP and NELAC (TNI)	Lab ID: 11626	Air Analysis, Solid and Hazardous Waste
New Jersey (NJDEP)	NELAC (TNI)	Lab ID: NY024	Air Analysis
Louisiana (LDEQ)	LELAP	Lab ID: 04083	Air Analysis, Solid Chemical Materials

Legend

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

SGS GALSON

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East Syracuse, NY 13057
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FAX: (315) 437-0571
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LELAP Lab ID #04083

LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc. Account No.: 15354
Site : CORA KELLY SCHOOL Login No. : L548282
Project No. : 4920002
Date Sampled : 30-SEP-21 Date Analyzed : 08-OCT-21
Date Received : 05-OCT-21 Report ID : 1268767

TO15 List

Galson ID: L548282-1
Client ID: CK-CLASS 26

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3
Propylene	5.0	8.6	<5.0	<8.6
Freon-12	0.80	4.0	<0.80	<4.0
Chloromethane	0.80	1.7	<0.80	<1.7
Freon-114	0.80	5.6	<0.80	<5.6
Vinyl Chloride	0.80	2.0	<0.80	<2.0
1,3-Butadiene	0.80	1.8	<0.80	<1.8
n-Butane	0.80	1.9	<0.80	<1.9
Bromomethane	0.80	3.1	<0.80	<3.1
Chloroethane	0.80	2.1	<0.80	<2.1
Acetonitrile	5.0	8.4	<5.0	<8.4
Vinyl Bromide	0.80	3.5	<0.80	<3.5
Acrolein	0.80	1.8	<0.80	<1.8
Acetone	5.0	12	9.8	23

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
Submitted by : SAP Date : 08-OCT-21

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LABORATORY ANALYSIS REPORT

Client	: Phase Separation Science, Inc.	Account No.:	15354
Site	: CORA KELLY SCHOOL	Login No. :	L548282
Project No.	: 4920002		
Date Sampled	: 30-SEP-21	Date Analyzed :	08-OCT-21
Date Received	: 05-OCT-21	Report ID :	1268767

TO15 List

Galson ID:	L548282-1
Client ID:	CK-CLASS 26

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3
Freon-11	0.80	4.5	<0.80	<4.5
Isopropyl Alcohol	5.0	12	24	58
Acrylonitrile	0.80	1.7	<0.80	<1.7
Pentane	0.80	2.4	12	36
Ethyl Bromide	0.80	3.6	<0.80	<3.6
1,1-Dichloroethene	0.80	3.2	<0.80	<3.2
tert-Butyl Alcohol	5.0	15	<5.0	<15
Methylene Chloride	0.80	2.8	<0.80	<2.8
Freon-113	0.80	6.1	<0.80	<6.1
Carbon Disulfide	5.0	16	<5.0	<16
Allyl Chloride	0.80	2.5	<0.80	<2.5
trans-1,2-Dichloroethene	0.80	3.2	<0.80	<3.2
1,1-Dichloroethane	0.80	3.2	<0.80	<3.2

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS — Supervisor: BLD
Collection Media : Mini Can — Approved by : BLD
Submitted by : SAP — Date : 08-OCT-21

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LABORATORY ANALYSIS REPORT

Client	: Phase Separation Science, Inc.	Account No.:	15354
Site	: CORA KELLY SCHOOL	Login No. :	L548282
Project No.	: 4920002		
Date Sampled	: 30-SEP-21	Date Analyzed :	08-OCT-21
Date Received	: 05-OCT-21	Report ID :	1268767

TO15 List

Galson ID:	L548282-1
Client ID:	CK-CLASS 26

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3
Methyl tert-Butyl Ether	0.80	2.9	<0.80	<2.9
Vinyl Acetate	0.80	2.8	<0.80	<2.8
Methyl Ethyl Ketone	0.80	2.4	<0.80	<2.4
cis-1,2-Dichloroethylene	0.80	3.2	<0.80	<3.2
Hexane	0.80	2.8	<0.80	<2.8
Ethyl Acetate	0.80	2.9	<0.80	<2.9
Chloroform	0.80	3.9	<0.80	<3.9
Tetrahydrofuran	0.80	2.4	<0.80	<2.4
1,2-Dichloroethane	0.80	3.2	<0.80	<3.2
1,1,1-Trichloroethane	0.80	4.4	<0.80	<4.4
Benzene	0.80	2.6	<0.80	<2.6
Carbon Tetrachloride	0.80	5.0	<0.80	<5.0
Cyclohexane	0.80	2.8	<0.80	<2.8

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS — Supervisor: BLD
Collection Media : Mini Can — Approved by : BLD
Submitted by : SAP — Date : 08-OCT-21

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Client	: Phase Separation Science, Inc.	Account No.:	15354
Site	: CORA KELLY SCHOOL	Login No. :	L548282
Project No.	: 4920002		
Date Sampled	: 30-SEP-21	Date Analyzed :	08-OCT-21
Date Received	: 05-OCT-21	Report ID :	1268767

TO15 List

Galson ID:	L548282-1
Client ID:	CK-CLASS 26

	LOQ ppbv	LOQ ug/m3	ppbv	ug/m3
1,2-Dichloropropane	0.80	3.7	<0.80	<3.7
Bromodichloromethane	0.80	5.4	<0.80	<5.4
1,4-Dioxane	0.80	2.9	<0.80	<2.9
Trichloroethylene	0.80	4.3	<0.80	<4.3
2,2,4-Trimethylpentane	0.80	3.7	<0.80	<3.7
Methyl Methacrylate	0.80	3.3	<0.80	<3.3
Heptane	0.80	3.3	<0.80	<3.3
cis-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6
trans-1,3-Dichloropropene	0.80	3.6	<0.80	<3.6
1,1,2-Trichloroethane	0.80	4.4	<0.80	<4.4
Methyl Isobutyl Ketone	0.80	3.3	<0.80	<3.3
Toluene	0.80	3.0	1.5	5.7
Methyl Butyl Ketone	0.80	3.3	<0.80	<3.3

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS — Supervisor: BLD
Collection Media : Mini Can — Approved by : BLD
Submitted by : SAP — Date : 08-OCT-21

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LABORATORY ANALYSIS REPORT

Client	: Phase Separation Science, Inc.	Account No.:	15354
Site	: CORA KELLY SCHOOL	Login No. :	L548282
Project No.	: 4920002		
Date Sampled	: 30-SEP-21	Date Analyzed :	08-OCT-21
Date Received	: 05-OCT-21	Report ID :	1268767

TO15 List

Galson ID:	L548282-1
Client ID:	CK-CLASS 26

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

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS — Supervisor: BLD
Collection Media : Mini Can — Approved by : BLD
Submitted by : SAP — Date : 08-OCT-21

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LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc. Account No.: 15354
Site : CORA KELLY SCHOOL Login No. : L548282
Project No. : 4920002
Date Sampled : 30-SEP-21 Date Analyzed : 08-OCT-21
Date Received : 05-OCT-21 Report ID : 1268767

TO15 List

Galson ID: L548282-1
Client ID: CK-CLASS 26

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

Analytical Method: mod. OSHA PV2120/mod. EPA TO15; GC/MS Supervisor: BLD
Collection Media : Mini Can Approved by : BLD
Submitted by : SAP Date : 08-OCT-21

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Client Name : Phase Separation Science, Inc.
Site : CORA KELLY SCHOOL
Project No. : 4920002

Date Sampled : 30-SEP-21 Account No.: 15354
Date Received: 05-OCT-21 Login No. : L548282
Date Analyzed: 08-OCT-21

L548282 (Report ID: 1268767):
NYSDOH does not offer a certification for the following compounds:
Propylene, Ethyl Acetate, Tetrahydrofuran, Methyl n-Butyl Ketone, 4-Ethyl Toluene, n-Butane,
Pentane, Ethyl Bromide, Nonane, and n-Propylbenzene.
SOPs: in-vocs(40)

L548282-1 (Report ID: 1268767):
Acetone result may be biased high due to co-elution with 2-methylbutane.

L548282 (Report ID: 1268767):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
1,1,2,2-Tetrachloroethane	+/-14%	98.9%
1,1,2-Trichloroethane	+/-12.6%	97.6%
1,1-Dichloroethane	+/-15.4%	96.5%
1,1-Dichloroethene	+/-15.7%	98.2%
1,2,4-Trimethylbenzene	+/-15%	105%
1,2-Dibromoethane	+/-13.5%	99.8%
1,2-Dichlorobenzene	+/-12.4%	103%
1,2-Dichloroethane	+/-17.6%	98.6%
1,2-Dichloropropane	+/-14.8%	96.2%
1,3,5-Trimethylbenzene	+/-13.2%	103%
1,3-Dichlorobenzene	+/-12.6%	102%
1,4-Dichlorobenzene	+/-13.3%	102%
2,2,4-Trimethylpentane	+/-15.1%	97.9%
2-Chlorotoluene	+/-13.2%	104%
4-Ethyltoluene	+/-13.9%	104%
Acrolein	+/-21.8%	93.1%
Acrylonitrile	+/-16.4%	97.9%
Allyl Chloride	+/-18.7%	97.5%
Acetonitrile	+/-17.4%	100%
Acetone	+/-14.6%	97.4%
Bromodichloromethane	+/-12.9%	100%
Bromoform	+/-14.4%	103%
1,3-Butadiene	+/-16.9%	97.5%
n-Butane	+/-18.2%	95.9%
Benzene	+/-13.3%	97.3%
Benzyl Chloride	+/-15%	109%
Carbon Disulfide	+/-13.8%	96.5%

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Client Name : Phase Separation Science, Inc.
Site : CORA KELLY SCHOOL
Project No. : 4920002

Date Sampled : 30-SEP-21 Account No.: 15354
Date Received: 05-OCT-21 Login No. : L548282
Date Analyzed: 08-OCT-21

Carbon Tetrachloride	+/-15.7%	100%
cis-1,2-Dichloroethylene	+/-16%	98.6%
cis-1,3-Dichloropropene	+/-14.6%	101%
Chlorobenzene	+/-13.3%	97.5%
Dibromochloromethane	+/-13%	102%
Chloroform	+/-14.1%	97.7%
Cumene	+/-13.9%	101%
Cyclohexane	+/-15.1%	100%
1,4-Dioxane	+/-13.7%	101%
Ethyl Acetate	+/-17.9%	98.4%
Ethylbenzene	+/-14.7%	101%
Chloroethane	+/-16.7%	96.9%
Ethyl Bromide	+/-13%	97.4%
Freon-11	+/-15.5%	99.4%
Freon-113	+/-13.2%	96.7%
Freon-114	+/-14.5%	98.8%
Freon-12	+/-15.3%	99.2%
Heptane	+/-16.1%	99.1%
Isopropyl Alcohol	+/-20.8%	96.3%
1,1,1-Trichloroethane	+/-15.1%	99.2%
Bromomethane	+/-13%	97%
Chloromethane	+/-17.9%	96.3%
Methylene Chloride	+/-14.4%	93.4%
Methyl Ethyl Ketone	+/-17.7%	97.8%
Methyl Methacrylate	+/-16%	102%
Methyl Isobutyl Ketone	+/-18.2%	99.4%
Methyl Butyl Ketone	+/-18.7%	105%
m & p-Xylene	+/-14%	100%
Methyl tert-Butyl Ether	+/-15.4%	100%
Naphthalene	+/-20.2%	111%
Hexane	+/-15.6%	98.1%
Nonane	+/-16.7%	103%
n-Propylbenzene	+/-13.2%	103%
o-Xylene	+/-13.9%	101%
Propylene	+/-18.8%	96.3%
Pentane	+/-17.9%	97.1%
Styrene	+/-15.2%	104%
Trichloroethylene	+/-12.8%	98.8%
tert-Butyl Alcohol	+/-18.4%	101%
Tetrachloroethylene	+/-13.1%	98.9%
Tetrahydrofuran	+/-19%	99%
Toluene	+/-14.4%	99.6%
trans-1,2-Dichloroethene	+/-15.8%	97.6%
trans-1,3-Dichloropropene	+/-14.8%	103%
Vinyl Acetate	+/-22.4%	96.1%

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

Client Name : Phase Separation Science, Inc.
Site : CORA KELLY SCHOOL
Project No. : 4920002

Date Sampled : 30-SEP-21 Account No.: 15354
Date Received: 05-OCT-21 Login No. : L548282
Date Analyzed: 08-OCT-21

Vinyl Bromide	+/-13.8%	97.7%
Vinyl Chloride	+/-15.6%	97.7%

L548282

gray cart

Chain of Custody Form for Subcontracted Analyses

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

For Questions or issues please contact: Amber Confer

W.O. No. : **21100121**
Project Location : Cora Kelly School
Project Number : 4920002
Report To LOD : No

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

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

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21100121-001	CK- Class 26	09/30/21	20:48	Air	VOCs in Air by GC/MS (subbed)	TO-15	NONSC	NON

Data Deliverables Required: COA

Perform Q.C. on Sample : _____

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: _____ Carrier : UPS

Condition Upon Receipt : _____

Comments :

Samples Relinquished By : [signature] Date : 10/4/21 Time: _____ Samples Received By : _____

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

Samples Relinquished By: _____ Date: _____ Time: _____ Samples Received By: Michelle Krause Michelle Krause 10/5/21 11:10

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

1Z2313E40166539869
Date:10/05/21
Shipper:UPS
Initials:MAK
Prep:UNKNOWN

gray cart

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

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

Client Account No.*:

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

Invoice To* : Phase Separation Science

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

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

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

Site Name : Cora Kelly School Project : ACPS IAQ Testing Sampled by : Client

Comments :

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

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

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

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
CK-Class 26	09/30/21	Canister	1L	ug/m^3	VOC	TO-15 (list)	
		Canister	1L	ug/m^3	VOC	TO-15 (list)	
		Canister	1L	ug/m^3	VOC	TO-15 (list)	
		Canister	1L	ug/m^3	VOC	TO-15 (list)	
		Canister	1L	ug/m^3	VOC	TO-15 (list)	
		Canister	1L	ug/m^3	VOC	TO-15 (list)	
		Canister	1L	ug/m^3	VOC	TO-15 (list)	
		Canister	1L	ug/m^3	VOC	TO-15 (list)	
		Canister	1L	ug/m^3	VOC	TO-15 (list)	
		Canister	1L	ug/m^3	VOC	TO-15 (list)	
		Canister	1L	ug/m^3	VOC	TO-15 (list)	

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

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

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :	[signature]	10/4/21		Received by :			
Relinquished by :				Received by :	Michelle Krause [signature]	10/5/21	11:10

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

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

Page___ of ___

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

Project Name: ACPS IAQ

PSS Project No.: 21100121

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

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

Sample Receipt:

Soil gas/indoor air not indicated on COC; sample is indoor air.
Incoming pressure not taken upon receipt; incoming pressure will be taken by subcontracting lab.

21100121: Analyses associated with analyst code 4051 were performed by
SGS North America - NY, 6601 Kirkville Road, East Syracuse, NY 13057 - NY 11626

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

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

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

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

PSS Work Order #: 21100121

PAGE 1 OF 21 arc 10/4/21

(2) (3)

LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)	Can ID *	Sample Reg. ID *	Canister Pressure * in field ("Hg) Start	Canister Pressure * in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	Soil Gas / Subslab *	Indoor/Ambient Air *	TO-15 Full List	Special List	REMARKS
	CK - Class 26	9/30/21	17:08	9/30/21	20:48	WA961	04548	30	6		☐	☐	☑	☐	
											☐	☐	☐	☐	
											☐	☐	☐	☐	
											☐	☐	☐	☐	
											☐	☐	☐	☐	
											☐	☐	☐	☐	
											☐	☐	☐	☐	
											☐	☐	☐	☐	
											☐	☐	☐	☐	
											☐	☐	☐	☐	

(5)

Relinquished By	Date	Time	Received By
(1) Channing Jackson	10/1/21	~~12:00~~ 17:30	[signature]
(2)			
(3)			
(4)			

(4) *Requested TAT (One TAT per COC)
☑ 5-Day ☐ 3-Day ☐ 2-Day
☐ Next Day ☐ Emergency ☐ Other

Shipping Carrier: Client

Data Deliverables Required:

Special Instructions:

PHASE SEPARATION SCIENCE

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

Sample Receipt Checklist

Project Name: ACPS IAQ
PSS Project No.: 21100121

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

Shipping Container(s)
No. of Coolers 0

		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	Channing Jackson
COC agrees with sample labels?	Yes	MD DW Cert. No.	N/A
Chain of Custody	Yes		
Sample Container		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		
Holding Time		Total No. of Samples Received	1
All Samples Received Within Holding Time(s)?	Yes	Total No. of Containers Received	1

Preservation

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

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

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

Soil gas/indoor air not indicated on COC; sample is indoor air.
Incoming pressure not taken upon receipt; incoming pressure will be taken by subcontracting lab.

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

PM Review and Approval: N L Jackson — Date: 10/04/2021
Lynnette Jackson

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com

email: info@phaseonline.com

(1)

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

*PROJECT MGR: Karl Ford

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

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

SITE LOCATION: P.O. NO.:

SAMPLER(S):

PSS Work Order #:

PAGE 1 OF 2

(2)

LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)	* (3) Can ID *	Sample Reg. ID *	Canister Pressure * in field ("Hg) Start	Canister Pressure * in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	Soil Gas / Subslab *	Indoor/Ambient Air *	TO-15 Full List	Special List	REMARKS
	CK - Outdoor	9/17/21	15:10	9/17/21	19:11	4319	12327	30	6		☐	☐	☑	☐	
	CK - Office	9/17/21	15:16	9/17/21	19:13	3528	10940	30	5		☐	☐	☑	☐	
	CK - Library	9/17/21	15:21	9/17/21	19:18	4313	11062	30	2		☐	☐	☑	☐	
	CK - Cafeteria	9/17/21	15:26	9/17/21	19:21	4264	11060	31	6		☐	☐	☑	☐	
	CK - Class 29	9/17/21	15:51	9/17/21	19:41	11197	12324	31	6		☐	☐	☑	☐	
	CK - Class 26	9/17/21	15:55	9/17/21	19:44	4245	15034	30	0		☐	☐	☑	☐	
	CK - 20-19	9/17/21	15:58	9/17/21	19:47	4277	10948	30	7		☐	☐	☑	☐	
	CK - Class 8	9/17/21	16:03	9/17/21	19:51	4315	15036	30	6		☐	☐	☑	☐	
	CK - Class 11	9/17/21	16:07	9/17/21	19:55	3564	15035	31	6		☐	☐	☑	☐	
	CK - Hall 15-17	9/17/21	16:11	9/17/21	19:58	4251	13651	32	9		☐	☐	☑	☐	

(5)

Relinquished By: (1)	Date	Time	Received By:
Channing Jackson	9/20/21	10:45	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

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

☑ 5-Day ☐ 3-Day ☐ 2-Day

☐ Next Day ☐ Emergency ☐ Other

Shipping Carrier:

Data Deliverables Required:

Special Instructions:

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

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com

email: info@phaseonline.com

(1)

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

*PROJECT MGR: Karl Ford

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

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

SITE LOCATION: P.O. NO.:

SAMPLER(S):

PSS Work Order #:

PAGE 1 OF 2

(2)

LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)	* (3) Can ID *	Sample Reg. ID *	Canister Pressure * in field ("Hg) Start	Canister Pressure * in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	Soil Gas / Subslab *	Indoor/Ambient Air *	TO-15 Full List	Special List	REMARKS
	CK - Outdoor	9/17/21	15:10	9/17/21	19:11	4319	12327	30	6		☐	☐	✔	☐	
	CK - Office	9/17/21	15:16	9/17/21	19:13	3528	10940	30	5		☐	☐	✔	☐	
	CK - Library	9/17/21	15:21	9/17/21	19:18	4313	11062	30	2		☐	☐	✔	☐	
	CK - Cafeteria	9/17/21	15:26	9/17/21	19:21	4264	11060	31	6		☐	☐	✔	☐	
	CK - Class 29	9/17/21	15:51	9/17/21	19:41	11197	12324	31	6		☐	☐	✔	☐	
	CK - Class 26	9/17/21	15:55	9/17/21	19:44	4245	15034	30	0		☐	☐	✔	☐	
	CK - 20-19	9/17/21	15:58	9/17/21	19:47	4277	10948	30	7		☐	☐	✔	☐	
	CK - Class 8	9/17/21	16:03	9/17/21	19:51	4315	15036	30	6		☐	☐	✔	☐	
	CK - Class 11	9/17/21	16:07	9/17/21	19:55	3564	15035	31	6		☐	☐	✔	☐	
	CK - Hall 15-17	9/17/21	16:11	9/17/21	19:58	4251	13651	32	9		☐	☐	✔	☐	

(5)

Relinquished By: (1)	Date	Time	Received By:
Channing Jackson	9/20/21	10:45	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

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

☑ 5-Day ☐ 3-Day ☐ 2-Day

☐ Next Day ☐ Emergency ☐ Other

Shipping Carrier:

Data Deliverables Required:

Special Instructions:

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

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com

email: info@phaseonline.com

(1)

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

*PROJECT MGR: Karl Ford

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

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

SITE LOCATION: P.O. NO.:

SAMPLER(S):

PSS Work Order #:

PAGE 1 OF 2

(2)

LAB #	*SAMPLE IDENTIFICATION	*DATE START	*Time Start (24hr clock)	*DATE STOP	*Time Stop (24hr clock)	* (3) Can ID *	Sample Reg. ID *	Canister Pressure * in field ("Hg) Start	Canister Pressure * in field ("Hg) Stop	Incoming Canister Pressure ("Hg) Lab	Soil Gas / Subslab *	Indoor/Ambient Air *	TO-15 Full List	Special List	REMARKS
	CK - Outdoor	9/17/21	15:10	9/17/21	19:11	4319	12327	30	6		☐	☐	✔	☐	
	CK - Office	9/17/21	15:16	9/17/21	19:13	3528	10940	30	5		☐	☐	✔	☐	
	CK - Library	9/17/21	15:21	9/17/21	19:18	4313	11062	30	2		☐	☐	✔	☐	
	CK - Cafeteria	9/17/21	15:26	9/17/21	19:21	4264	11060	31	6		☐	☐	✔	☐	
	CK - Class 29	9/17/21	15:51	9/17/21	19:41	11197	12324	31	6		☐	☐	✔	☐	
	CK - Class 26	9/17/21	15:55	9/17/21	19:44	4245	15034	30	0		☐	☐	✔	☐	
	CK - 20-19	9/17/21	15:58	9/17/21	19:47	4277	10948	30	7		☐	☐	✔	☐	
	CK - Class 8	9/17/21	16:03	9/17/21	19:51	4315	15036	30	6		☐	☐	✔	☐	
	CK - Class 11	9/17/21	16:07	9/17/21	19:55	3564	15035	31	6		☐	☐	✔	☐	
	CK - Hall 15-17	9/17/21	16:11	9/17/21	19:58	4251	13651	32	9		☐	☐	✔	☐	

(5)

Relinquished By: (1)	Date	Time	Received By:
Channing Jackson	9/20/21	10:45	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

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

☑ 5-Day ☐ 3-Day ☐ 2-Day

☐ Next Day ☐ Emergency ☐ Other

Shipping Carrier:

Data Deliverables Required:

Special Instructions:

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

Appendix D: Formaldehyde Analytical Results

PHASE SEPARATION SCIENCE

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

Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092016

September 29, 2021

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

Reference: PSS Project No: **21092016**
Project Name: ACPS IAQ Testing
Project Location: Cora Kelly
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) **21092016**.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 25, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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

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

Sincerely,

Dan Prucnal
Laboratory Manager

PHASE SEPARATION SCIENCE

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

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21092016

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/20/2021 at 03:00 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21092016-001	CK- Hall 45-46	AIR	09/17/21 00:00
21092016-002	CK- Office	AIR	09/17/21 00:00
21092016-003	CK- Library	AIR	09/17/21 00:00
21092016-004	CK- Cafeteria	AIR	09/17/21 00:00
21092016-005	CK- Class 29	AIR	09/17/21 00:00
21092016-006	CK- Class 26	AIR	09/17/21 00:00
21092016-007	CK- Hall 20	AIR	09/17/21 00:00
21092016-008	CK- Class 8	AIR	09/17/21 00:00
21092016-009	CK- Class 11	AIR	09/17/21 00:00
21092016-010	CK- Hall 15-17	AIR	09/17/21 00:00
21092016-011	CK- Hall 38-39	AIR	09/17/21 00:00
21092016-012	CK- Class 40	AIR	09/17/21 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.

PHASE SEPARATION SCIENCE

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

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21092016

Certifications:

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

SGS GALSON

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

September 27, 2021

Account# 15354

Login# L547195

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on September 22, 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

Lisa Swab
Laboratory Director

Enclosure(s)

Terms and Conditions & General Disclaimers

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

Analytical Disclaimers

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

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

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

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

Legend

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

SGS GALSON

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

LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc.
Site : CORA KELLY
Project No. : ACPS IAQ TESTING - 4920002
Date Sampled : 17-SEP-21
Date Received : 22-SEP-21

Account No.: 15354
Login No. : L547195
Date Analyzed : 23-SEP-21
Report ID : 1266397

Formaldehyde

Sample ID	Lab ID	Time minutes	Total ug	Conc mg/m3	ppm
CK - HALL 45-46	L547195-1	233	<0.4	<0.01	<0.01
CK - OFFICE	L547195-2	237	<0.4	<0.01	<0.01
CK - LIBRARY	L547195-3	237	<0.4	<0.01	<0.01
CK - CAFETERIA	L547195-4	235	<0.4	<0.01	<0.01
CK - CLASS 29	L547195-5	230	<0.4	<0.01	<0.01
CK - CLASS 26	L547195-6	229	<0.4	<0.01	<0.01
CK - HALL 20	L547195-7	229	<0.4	<0.01	<0.01
CK - CLASS 8	L547195-8	228	<0.4	<0.01	<0.01
CK - CLASS 11	L547195-9	228	<0.4	<0.01	<0.01
CK - HALL 15-17	L547195-10	227	<0.4	<0.01	<0.01
CK - HALL 38-39	L547195-11	235	<0.4	<0.01	<0.01
CK - CLASS 40	L547195-12	234	<0.4	<0.01	<0.01

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

Level of Quantitation: 0.4 ug
Analytical Method : mod. OSHA 1007; HPLC/UV
Collection Media : Assay 581

Submitted by: JLL
Date : 27-SEP-21
Supervisor : MWJ

Approved by: MLN

SGS GALSON

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

LABORATORY FOOTNOTE REPORT

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

Date Sampled : 17-SEP-21 Account No.: 15354
Date Received: 22-SEP-21 Login No. : L547195
Date Analyzed: 23-SEP-21

L547195 (Report ID: 1266397):
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 1-12).
SOPs: LC-SOP-4(23)

L547195 (Report ID: 1266397):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

Parameter	Accuracy	Mean Recovery
Formaldehyde	+/-12.1%	95.3%

L547195 21092016

SGS GALSON

1Z2313E40164686427
Date: 09/22/21
Shipper: UPS
Initials: MAK
Prep: UNKNOWN

☐ New Client?

Client Account No.*:

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

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

Invoice To*: Phase Separation Science
16-17

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

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

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

Site Name: Cora Kelly Project: ACPS IAQ testing - 4920002 Sampled by: Karl Ford

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

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

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

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

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
CK - Hall 45-46	09/17/21	Assay N581 Aldehyde Badge	233	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4909
CK - Office	09/17/21	Assay N581 Aldehyde Badge	237	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4643
CK - Library	09/17/21	Assay N581 Aldehyde Badge	237	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4687
CK - Cafeteria	09/17/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5391
CK - Class 29	09/17/21	Assay N581 Aldehyde Badge	230	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4248
CK - Class 26	09/17/21	Assay N581 Aldehyde Badge	229	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5122
CK - Hall 20~~-19~~ add 9/21/21	09/17/21	Assay N581 Aldehyde Badge	229	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5336
CK - Class 8	09/17/21	Assay N581 Aldehyde Badge	228	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5015
CK - Class 11	09/17/21	Assay N581 Aldehyde Badge	228	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4783
CK - Hall 15-17	09/17/21	Assay N581 Aldehyde Badge	227	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4344
CK - Hall 38-39	09/17/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4550

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

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

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by:	Channing Jackson	09/20/21	11:00	Received by:	[signature]	9/20/21	1500
Relinquished by:	[signature]	9/21/21		Received by	Michelle Krause [signature]	9/22/21	1007

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

Page 1 of 2

2109 2016

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

Client Account No.*:

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

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

Invoice To* : Phase Separation Science

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

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

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

Site Name : Cora Kelly Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

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

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

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

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

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
CK - Class 40	09/17/21	Assay N581 Aldehyde Badge	234	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4217

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

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

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	09/20/21	11:00	Received by :			
Relinquished by :				Received by :	Michelle Krause Michelle Krause	9/22/21	1007

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

Page 2 of 2

Chain of Custody Form for Subcontracted Analyses

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

For Questions or issues please contact: Amber Confer

W.O. No. : **21092016**
Project Location : Cora Kelly
Project Number : 4920002
Report To LOD : No

Report Due On :09/29/21 05:00

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

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21092016-001	CK- Hall 45-46	09/17/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21092016-002	CK- Office	09/17/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21092016-003	CK- Library	09/17/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21092016-004	CK- Cafeteria	09/17/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21092016-005	CK- Class 29	09/17/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21092016-006	CK- Class 26	09/17/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21092016-007	CK- Hall 20	09/17/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21092016-008	CK- Class 8	09/17/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21092016-009	CK- Class 11	09/17/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21092016-010	CK- Hall 15-17	09/17/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21092016-011	CK- Hall 38-39	09/17/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON
21092016-012	CK- Class 40	09/17/21	00:00	Air	Formaldehyde (mod. OSHA 1007; HPLC/UV)	VARIOUS	NONSC	NON

Data Deliverables Required: COA

Perform Q.C. on Sample : _____

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: _____ Carrier : UPS

Condition Upon Receipt : _____

Comments :

Samples Relinquished By : Aerocon Date : 9/21/21 Time: _____ Samples Received By : _____

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

Samples Relinquished By: _____ Date: _____ Time: _____ Samples Received By: Michelle Krause Michelle Krause 9/22/21 1007

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21092016

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.

21092016: 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.

21092016

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

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

Client Account No.*:

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

Invoice To* : Phase Separation Science

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

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

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

Site Name : Cora Kelly Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

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

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

Public grade school building

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

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

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
CK - Hall 45-46	09/17/21	Assay N581 Aldehyde Badge	233	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4909
CK - Office	09/17/21	Assay N581 Aldehyde Badge	237	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4643
CK - Library	09/17/21	Assay N581 Aldehyde Badge	237	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4687
CK - Cafeteria	09/17/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5391
CK - Class 29	09/17/21	Assay N581 Aldehyde Badge	230	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4248
CK - Class 26	09/17/21	Assay N581 Aldehyde Badge	229	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5122
CK - Hall 20-~~19~~ ac 9/21/21	09/17/21	Assay N581 Aldehyde Badge	229	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5336
CK - Class 8	09/17/21	Assay N581 Aldehyde Badge	228	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5015
CK - Class 11	09/17/21	Assay N581 Aldehyde Badge	228	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4783
CK - Hall 15-17	09/17/21	Assay N581 Aldehyde Badge	227	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4344
CK - Hall 38-39	09/17/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4550

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

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

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	09/20/21	11:00	Received by :	Amber Confer	9/20/21	1500
Relinquished by :	Amber Confer	9/21/21		Received by :			

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

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

Page 1 of 2

2109 2016

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

Client Account No.*:

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

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

Invoice To* : Phase Separation Science

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

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

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

Site Name : Cora Kelly Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

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

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

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☑ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA ☐ MSHA ☐ Other (specify):

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
CK - Class 40	09/17/21	Assay N581 Aldehyde Badge	234	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4217

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

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

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	09/20/21	11:00	Received by :			
Relinquished by :				Received by :			

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

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

Sample Receipt Checklist

Project Name: ACPS IAQ Testing
PSS Project No.: 21092016

Client Name	Total Environmental Concepts - Lorto	**Received By**	Amber Confer
Disposal Date	10/25/2021	**Date Received**	09/20/2021 03:00:00 PM
		Delivered By	Client
		Tracking No	Not Applicable
		Logged In By	Amber Confer

Shipping Container(s)

No. of Coolers 0

		Ice	N/A
Custody Seal(s) Intact?	N/A	Temp (deg C)	
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No
		Sampler Name	Karl Ford
Documentation		MD DW Cert. No.	N/A
COC agrees with sample labels?	Yes		
Chain of Custody	Yes		
Sample Container		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		
Holding Time		Total No. of Samples Received	12
All Samples Received Within Holding Time(s)?	Yes	Total No. of Containers Received	12

Preservation

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

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

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

Samples Inspected/Checklist Completed By: Amber Confer — Date: 09/21/2021

PM Review and Approval: Lynn Jackson — Date: 09/21/2021

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

Client Account No.*:

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

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

Invoice To* : Phase Separation Science

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

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

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

Site Name : Cora Kelly Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

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

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

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

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

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
CK - Hall 45-46	09/17/21	Assay N581 Aldehyde Badge	233	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4909
CK - Office	09/17/21	Assay N581 Aldehyde Badge	237	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4643
CK - Library	09/17/21	Assay N581 Aldehyde Badge	237	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4687
CK - Cafeteria	09/17/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5391
CK - Class 29	09/17/21	Assay N581 Aldehyde Badge	230	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4248
CK - Class 26	09/17/21	Assay N581 Aldehyde Badge	229	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5122
CK - Hall 20-19	09/17/21	Assay N581 Aldehyde Badge	229	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5336
CK - Class 8	09/17/21	Assay N581 Aldehyde Badge	228	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5015
CK - Class 11	09/17/21	Assay N581 Aldehyde Badge	228	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4783
CK - Hall 15-17	09/17/21	Assay N581 Aldehyde Badge	227	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4344
CK - Hall 38-39	09/17/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4550

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

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

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	09/20/21	11:00	Received by :			
Relinquished by :				Received by :			

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

SGS GALSON

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

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☐ New Client?

Client Account No.*:

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

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

Invoice To* : Phase Separation Science

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

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

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

Site Name : Cora Kelly Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

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

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

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

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

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
CK - Hall 45-46	09/17/21	Assay N581 Aldehyde Badge	233	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4909
CK - Office	09/17/21	Assay N581 Aldehyde Badge	237	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4643
CK - Library	09/17/21	Assay N581 Aldehyde Badge	237	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4687
CK - Cafeteria	09/17/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5391
CK - Class 29	09/17/21	Assay N581 Aldehyde Badge	230	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4248
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CK - Hall 20-19	09/17/21	Assay N581 Aldehyde Badge	229	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5336
CK - Class 8	09/17/21	Assay N581 Aldehyde Badge	228	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5015
CK - Class 11	09/17/21	Assay N581 Aldehyde Badge	228	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4783
CK - Hall 15-17	09/17/21	Assay N581 Aldehyde Badge	227	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4344
CK - Hall 38-39	09/17/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4550

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

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

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	09/20/21	11:00	Received by :			
Relinquished by :				Received by :			

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

Appendix E: 4-PCH Analytical Results

PHASE SEPARATION SCIENCE

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410-747-8770
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Certificate of Analysis

Project Name: ACPS IAQ Testing
PSS Project No.: 21092015

September 29, 2021

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

Reference: PSS Project No: **21092015**
Project Name: ACPS IAQ Testing
Project Location: Cora Kelly
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) **21092015**.

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

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 25, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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

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

Sincerely,

Dan Prucnal
Laboratory Manager

PHASE SEPARATION SCIENCE

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

Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21092015

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/20/2021 at 03:00 pm

PSS Sample ID	Sample ID	Matrix	Date/Time Collected
21092015-001	CK- Hall 45-46	AIR	09/17/21 00:00
21092015-002	CK- Office	AIR	09/17/21 00:00
21092015-003	CK- Library	AIR	09/17/21 00:00
21092015-004	CK- Cafeteria	AIR	09/17/21 00:00
21092015-005	CK- Class 29	AIR	09/17/21 00:00
21092015-006	CK- Class 26	AIR	09/17/21 00:00
21092015-007	CK- Hall 20	AIR	09/17/21 00:00
21092015-008	CK- Class 8	AIR	09/17/21 00:00
21092015-009	CK- Class 11	AIR	09/17/21 00:00
21092015-010	CK- Hall 15-17	AIR	09/17/21 00:00
21092015-011	CK- Hall 38-39	AIR	09/17/21 00:00
21092015-012	CK- Class 40	AIR	09/17/21 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.

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800-932-9047
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Explanation of Qualifiers

Project Name: ACPS IAQ Testing

PSS Project No.: 21092015

Certifications:

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

SGS GALSON

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

September 29, 2021

Account# 15354

Login# L547200

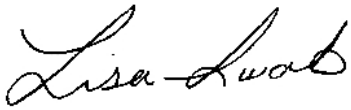
Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on September 22, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

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

Sincerely,

SGS Galson



Lisa Swab
Laboratory Director

Enclosure(s)

Terms and Conditions & General Disclaimers

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

Analytical Disclaimers

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

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

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

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

Legend

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

SGS GALSON

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

LABORATORY ANALYSIS REPORT

Client : Phase Separation Science, Inc. Account No.: 15354
Site : CORA KELLY Login No. : L547200
Project No. : ACPS IAQ TESTING-4920002
Date Sampled : 17-SEP-21 Date Analyzed : 24-SEP-21
Date Received : 22-SEP-21 Report ID : 1267058

4-Phenylcyclohexene (4PCH low LOQ)

Sample ID	Lab ID	Air Vol liter	Front ug	Back ug	Total ug	Conc mg/m3	ppm
CK-HALL 45-46	L547200-1	46.6	<0.2	<0.2	<0.2	<0.004	<0.0007
CK-OFFICE	L547200-2	47.4	<0.2	<0.2	<0.2	<0.004	<0.0007
CK-LIBRARY	L547200-3	47.4	<0.2	<0.2	<0.2	<0.004	<0.0007
CK-CAFETERIA	L547200-4	47	<0.2	<0.2	<0.2	<0.004	<0.0007
CK-CLASS 29	L547200-5	46	<0.2	<0.2	<0.2	<0.004	<0.0007
CK-CLASS 26	L547200-6	45.8	<0.2	<0.2	<0.2	<0.005	<0.0007
CK-HALL	L547200-7	45.8	<0.2	<0.2	<0.2	<0.005	<0.0007
CK-CLASS 8	L547200-8	45.6	<0.2	<0.2	<0.2	<0.005	<0.0007
CK-CLASS 11	L547200-9	45.6	<0.2	<0.2	<0.2	<0.005	<0.0007
CK-HALL 15-17	L547200-10	45.4	<0.2	<0.2	<0.2	<0.005	<0.0007
CK-HALL 38-39	L547200-11	47	<0.2	<0.2	<0.2	<0.004	<0.0007
CK-CLASS 40	L547200-12	46.8	<0.2	<0.2	<0.2	<0.004	<0.0007

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

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

Submitted by: BDK
Date : 29-SEP-21
Supervisor : KAG

Approved by: NKP

SGS GALSON

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

LABORATORY FOOTNOTE REPORT

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

Date Sampled : 17-SEP-21 Account No.: 15354
Date Received: 22-SEP-21 Login No. : L547200
Date Analyzed: 24-SEP-21

L547200 (Report ID: 1267058):
Total ug corrected for a desorption efficiency of 97%.
SOPs: GC-SOP-16(26), GC-SOP-8(27), GC-SOP-12(20)

L547200 (Report ID: 1267058):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

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

L547200 21092015

SGS GALSON

1Z2313E40164686427
Date: 09/22/21
Shipper: UPS
Initials: MAK
Prep: UNKNOWN

☐ New Client?

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

Client Account No.*:

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

Invoice To*: Phase Separation Science

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

7

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

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

Site Name: Cora Kelly Project: ACPS IAQ testing - 4920002 Sampled by: Karl Ford

Comments:

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

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

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

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
CK - Hall 45-46	09/17/21	Sm Charcoal tubes / 226-01	46.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
CK - Office	09/17/21	Sm Charcoal tubes / 226-01	47.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
CK - Library	09/17/21	Sm Charcoal tubes / 226-01	47.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
CK - Cafeteria	09/17/21	Sm Charcoal tubes / 226-01	47.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	
CK - Class 29	09/17/21	Sm Charcoal tubes / 226-01	46.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	
CK - Class 26	09/17/21	Sm Charcoal tubes / 226-01	45.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
CK - ~~Class 20-19~~ Hall on 9/21/21	09/17/21	Sm Charcoal tubes / 226-01	45.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	
CK - Class 8	09/17/21	Sm Charcoal tubes / 226-01	45.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
CK - Class 11	09/17/21	Sm Charcoal tubes / 226-01	45.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
CK - Hall 15-17	09/17/21	Sm Charcoal tubes / 226-01	45.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
CK - Hall 38-39	09/17/21	Sm Charcoal tubes / 226-01	47.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	

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

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

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by:	Channing Jackson	09/20/21	11:30	Received by:	[signature]	9/20/21	1500
Relinquished by:	[signature]	9/21/21		Received by:	Michelle Krause [signature]	9/22/21	1007

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

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

Page 1 of 2

21092015

SGS GALSON

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

www.sgsgalson.com

☐ New Client?

Client Account No.*:

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

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

Invoice To* : Phase Separation Science

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

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

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

Site Name : Cora Kelly Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

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

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

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

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
CK - Class 40	09/17/21	Sm Charcoal tubes / 226-01	46.8	L	4-Phenylcyclohexene	mod. NIOSH 1501	

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Page 2 of 2

Chain of Custody Form for Subcontracted Analyses

7

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

For Questions or issues please contact: Amber Confer

W.O. No. : **21092015**
Project Location : Cora Kelly
Project Number : 4920002
Report To LOD : No

Report Due On :09/29/21 05:00

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

Lab Sample ID	Field Sample ID	Date Sampled	Time Sampled	Matrix	Analyses Required	Method	Type of Container	Preservative
21092015-001	CK- Hall 45-46	09/17/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21092015-002	CK- Office	09/17/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21092015-003	CK- Library	09/17/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21092015-004	CK- Cafeteria	09/17/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21092015-005	CK- Class 29	09/17/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21092015-006	CK- Class 26	09/17/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21092015-007	CK- Hall 20	09/17/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21092015-008	CK- Class 8	09/17/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21092015-009	CK- Class 11	09/17/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21092015-010	CK- Hall 15-17	09/17/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21092015-011	CK- Hall 38-39	09/17/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON
21092015-012	CK- Class 40	09/17/21	00:00	Air	4-Phenylcyclohexene	VARIOUS	NONSC	NON

Data Deliverables Required: COA

Perform Q.C. on Sample : _____

Send Report Attn : reporting@phaseonline.com

Send InvoiceAttn : invoicing@phaseonline.com

Airbill No.: _____ Carrier : UPS

Condition Upon Receipt : _____

Comments :

Samples Relinquished By : Amber Confer Date : 9/21/21 Time: _____ Samples Received By : _____

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

Samples Relinquished By: _____ Date: _____ Time: _____ Samples Received By: Michelle Krause Michelle Krause 9/22/21 1007

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

Project Name: ACPS IAQ Testing

PSS Project No.: 21092015

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.

21092015: 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.

2109 2015

SGS GALSON

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888-432-LABS (5227)

www.sgsgalson.com

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Baltimore, MD 21228

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P.O. No. : ODC 4920002-001
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☑ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

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

Site Name : Cora Kelly Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

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

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

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

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
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CK - Cafeteria	09/17/21	Sm Charcoal tubes / 226-01	47.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	
CK - Class 29	09/17/21	Sm Charcoal tubes / 226-01	46.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	
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CK - Class 11	09/17/21	Sm Charcoal tubes / 226-01	45.6	L	4-Phenylcyclohexene	mod. NIOSH 1501	
CK - Hall 15-17	09/17/21	Sm Charcoal tubes / 226-01	45.4	L	4-Phenylcyclohexene	mod. NIOSH 1501	
CK - Hall 38-39	09/17/21	Sm Charcoal tubes / 226-01	47.0	L	4-Phenylcyclohexene	mod. NIOSH 1501	

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	09/20/21	11:30	Received by :	[signature]	9/20/21	1500
Relinquished by :	[signature]	9/21/21		Received by :			

Samples received after 3pm will be considered as next day's business
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Page 1 of 2

21092015

SGS GALSON

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

www.sgsgalson.com

☐ New Client? Client Account No.*:

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

Phone No.* : 410-747-8770
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Email Results to : Amber Confer
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☑ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
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Site Name : Cora Kelly Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

Comments :

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Page 2 of 2

PHASE SEPARATION SCIENCE

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

Sample Receipt Checklist

Project Name: ACPS IAQ Testing
PSS Project No.: 21092015

Client Name	Total Environmental Concepts - Lorto	**Received By**	Amber Confer
Disposal Date	10/25/2021	**Date Received**	09/20/2021 03:00:00 PM
		Delivered By	Client
		Tracking No	Not Applicable
		Logged In By	Amber Confer

Shipping Container(s)

No. of Coolers 0

		Ice	N/A
Custody Seal(s) Intact?	N/A	Temp (deg C)	
Seal(s) Signed / Dated?	N/A	Temp Blank Present	No
		Sampler Name	Karl Ford
Documentation		MD DW Cert. No.	N/A
COC agrees with sample labels?	Yes		
Chain of Custody	Yes		
Sample Container		Custody Seal(s) Intact?	Not Applicable
Appropriate for Specified Analysis?	Yes	Seal(s) Signed / Dated	Not Applicable
Intact?	Yes		
Labeled and Labels Legible?	Yes		
Holding Time		Total No. of Samples Received	12
All Samples Received Within Holding Time(s)?	Yes	Total No. of Containers Received	12

Preservation

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

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

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

Samples Inspected/Checklist Completed By: Amber Confer — Date: 09/21/2021

PM Review and Approval: Lynn Jackson — Date: 09/21/2021

SGS GALSON

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

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☐ Same Day	200%

Site Name : Cora Kelly Project : ACPS IAQ testing - 4920002 Sampled by : Karl Ford

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

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

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

Please indicate which OEL this data will be used for :
☑ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
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CK - Library	09/17/21	Assay N581 Aldehyde Badge	237	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4687
CK - Cafeteria	09/17/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5391
CK - Class 29	09/17/21	Assay N581 Aldehyde Badge	230	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4248
CK - Class 26	09/17/21	Assay N581 Aldehyde Badge	229	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5122
CK - Hall 20-19	09/17/21	Assay N581 Aldehyde Badge	229	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5336
CK - Class 8	09/17/21	Assay N581 Aldehyde Badge	228	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD5015
CK - Class 11	09/17/21	Assay N581 Aldehyde Badge	228	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4783
CK - Hall 15-17	09/17/21	Assay N581 Aldehyde Badge	227	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4344
CK - Hall 38-39	09/17/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4550

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Comments :
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CK - Class 11	09/17/21	Assay N581 Aldehyde Badge	228	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4783
CK - Hall 15-17	09/17/21	Assay N581 Aldehyde Badge	227	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4344
CK - Hall 38-39	09/17/21	Assay N581 Aldehyde Badge	235	Min	Formaldehyde	mod. OSHA 1007: TPLC/UV	PD4550

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

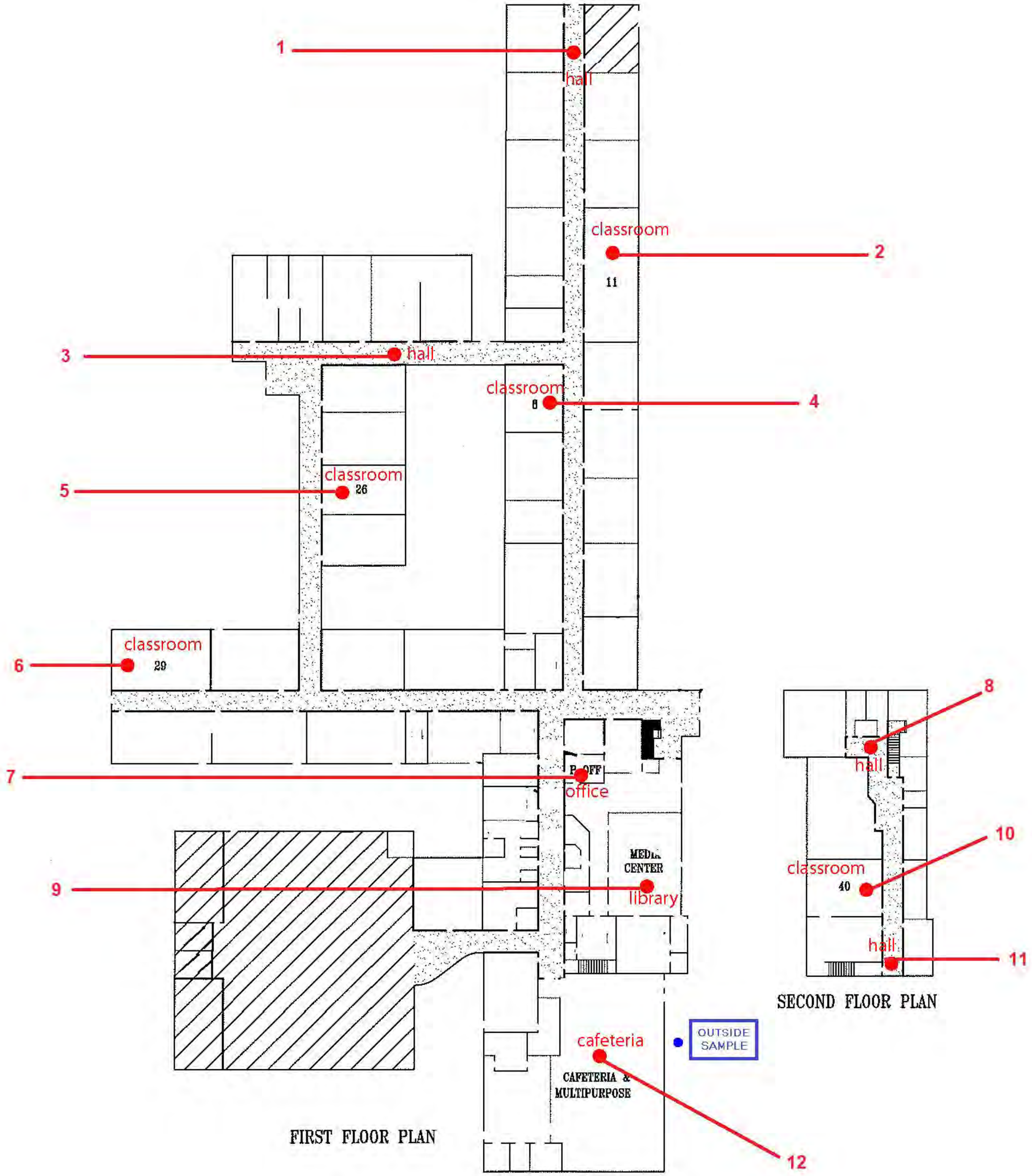
For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

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

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by :	Channing Jackson	09/20/21	11:00	Received by :			
Relinquished by :				Received by :			

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

Appendix F: Sampling Locations



LEGEND

● Sample Location Analyzed For:

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

CORA KELLY SCHOOL FOR MATH

3600 Commomwealth Avenue
Alexandria, Va 22305

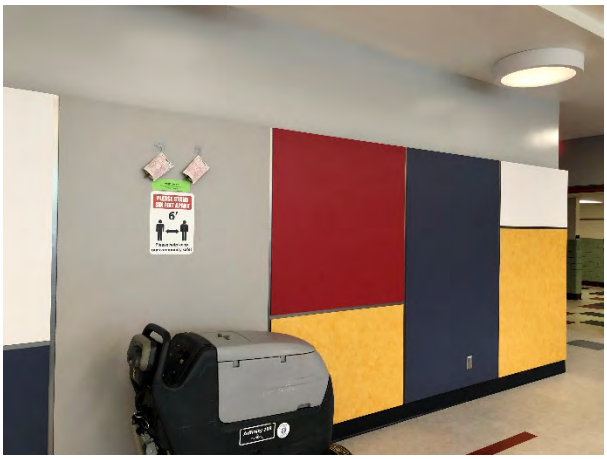
FLOOR PLAN

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

Figure 1

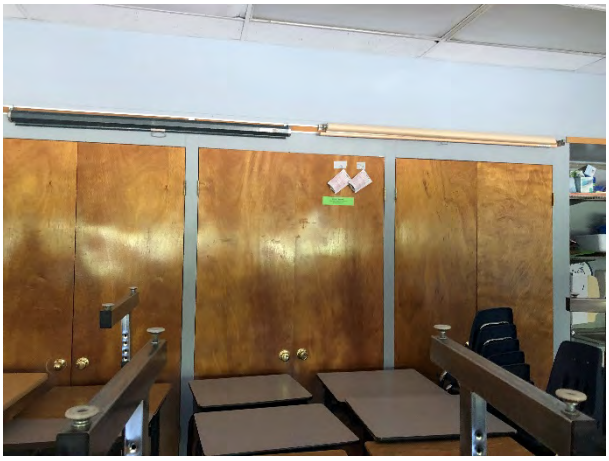
Appendix G: Photographs

Cora Kelly, Media Center

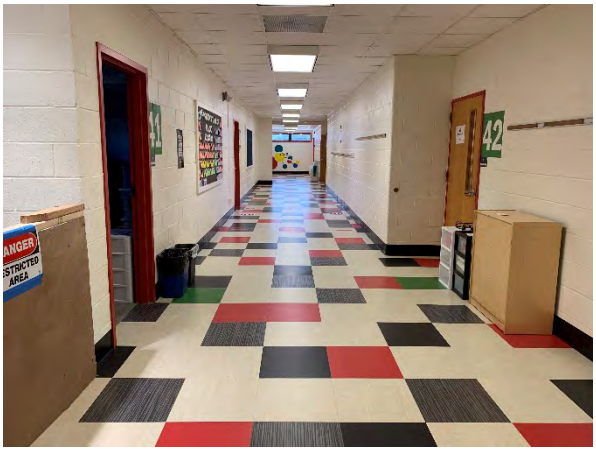


Cora Kelly, Cafeteria

Cora Kelly, Second Floor Hall



Cora Kelly, Classroom



Cora Kelly, Hallway

Cora Kelly, Office