

ENGINEERS • PLANNERS • SCIENTISTS • CONSTRUCTION MANAGERS

936 RIDGEBROOK ROAD • SPARKS, MD 21152 • 410-316-7800 • (FAX) 410-316-7935

May 8, 2023

Mr. Brian Croyle, Environmental Specialist Montgomery County Public Schools Division of Sustainability and Compliance 8301 Turkey Thicket Drive Gaithersburg, MD 20879

#### Ref: <u>Sampling for Asphalt Fumes and Hydrogen Sulfide Gas</u> Poolesville High School KCI Job No. 122302497

KCI Technologies Inc. (KCI) is submitting the following letter report detailing the findings of air sampling of Asphalt Fumes (benzene soluble fraction) and Hydrogen Sulfide gas at Poolesville High School located at 17501 W. Willard Rd. Poolesville, MD 20837 (subject site). Baseline sampling was conducted by KCI's Industrial Hygienist, Mr. Tyler McCleaf, CSP, under the oversight of KCI's Certified Industrial Hygienist (CIH), Mr. Jonathan Coale.

#### Background:

At Poolesville High School, current renovations and construction has raised concerns from student parents. Students and faculty have voiced concerns related to an odor present in the school while the roofing work is occurring. The parents are concerned the students are being exposed to unsafe conditions related to the asphalt fumes being produced during the roofing installation. MCPS contacted KCI to assist them in collecting data on the school's occupants' potential exposure to fumes related to the roofing work being conducted.

#### Description of the Work Performed:

On April 24, 2023, KCI conducted air sampling for Asphalt Fumes (benzene soluble fraction) and Hydrogen Sulfide gas levels at Poolesville High School. The sampling of Asphalt Fumes (benzene soluble fraction) was done under method: Modified NIOSH 5042. This method will determine the total concentration of total particulate and the soluble fraction to which an individual is exposed. NIOSH has an adopted value of 5 mg/m<sup>3</sup> Threshold Limit Value (TLV) -Time-Weighted Average (TWA) for asphalt fumes. NIOSH's definition of TLV-TWA is the "concentration for a conventional 8-hour workday and a 40-hour workweek, to which it is believed that nearly all workers may be repeatedly exposed, day after day, for a working lifetime without adverse effect". KCI also utilized a mulit-gas meter to collect real time readings of hydrogen sulfide (H<sub>2</sub>S), carbon monoxide (CO), and oxygen (O<sub>2</sub>) levels in various locations throughout the building and exterior. Direct read data was performed to collect short term "grab" samples to determine if the gas was present and was not intended to collect exposure data.

During the time of the air sampling, construction was being conducted, asphalt smell was noted outside of the building. KCI placed six (6) sampling pumps set to approximately 1 liter per minute in locations predetermined by MCPS. It is KCI's understanding that the sample locations selected by MCPS were where complaints were made from students. After all sampling pumps were placed, KCI took real time readings of the hydrogen sulfide levels at each of these locations every 30 minutes inside and every 30 minutes outside. A sampling location map can be found in attachment A.

While on site, KCI conducted preliminary sampling of dust particulate using a DustTrax DRX aerosol monitor. An aerosol monitor measures aerosol contaminants such as dust, smoke, fumes, and mists. KCI spot checked areas around the construction site and main school buildings during roofing and construction activities to get baseline readings of aerosol contaminants created during the activities. Locations of spot checking can be found in Attachment C.

KCI conducted area sampling from approximately 0830 until 1430. Conditions during the sampling period were clear skies and 48°- 58°F. Winds were between 5 and 10mph with gusts up to 22mph from N, NW to S, SW.

After sampling, the cassettes were sealed, logged, bagged, and shipped as required to Galson Laboratories in East Syracuse, NY, where they were analyzed for Asphalt Fume (benzene soluble fraction) Modified NIOSH Method 5042. Galson Laboratories is accredited by the American Industrial Hygiene Association (#100324).

In addition to sampling, MCPS had the onsite IH conduct a review of the barriers between the construction site and entrances to the school and to recommend additional elements to help reduce cross contamination of asphalt roofing off gassing.

#### Results:

Table 1 – Asphalt Fumes Sampling Summary					
Location	Sample Number	Concentration (mg/m <sup>3</sup> )	Above TLV-TWA?		
Arts Hallway – Outside Room 44	PH - 01B	<0.29	No		
Auditorium Lobby	PH - 02B	<0.29	No		
New Gym Hallway	PH - 03B	<0.29	No		
Science Building 1 <sup>st</sup> Floor – Outside Room 184	$\mathrm{PH}-\mathrm{04B}$	<0.29	No		
Science Building 2 <sup>nd</sup> Floor – Outside Room 284	PH – 05B	<0.29	No		
West End of Portables – (exterior)	PH - 06B	<0.29	No		
Field Blank	PH – FB	N/A	N/A		
Lab Blank	PH – LB	N/A	N/A		
N/A: Not Applicable					

#### Asphalt Fumes (Benzene Soluble Fraction)

Laboratory analysis results are included as Attachment B.

#### **Gas Meter Readings**

Table 2 – Multi-Gas Meter Sampling Summary						
Time	TimeOxygen (O2)Carbon Monoxide (CO)Hydrogen Sulfide (H2S)					
830-835	20.8	0	0			
900-905	20.8	0	0			
940-945	20.8	0	0			
1100-1105	20.8	0	0			
1132-1137	20.8	0	0			

Table 2 – Multi-Gas Meter Sampling Summary					
TimeOxygen (O2)Carbon Monoxide (CO)Hydrogen Sulfide (H2S)					
1250-1255	20.8	0	0		
1315-1320	20.8	0	0		
1400-1405	20.8	0	0		
1430-1435	20.8	0	0		

### **Olfactory Findings**

During walkthroughs, KCI noted the following asphalt smells:

Table 3 – Olfactory Investigation Summary			
Location	Findings		
Exterior Outside New Main Office	No Asphalt Smell		
Exterior Between Main Building & Science/Tech Addition	Weak Asphalt Smell		
Exterior By Portables	No Asphalt Smell		
Main Lobby	No Asphalt Smell		
Art Hallway	No Asphalt Smell		
Auditorium Corridor	No Asphalt Smell		
Gym Hallway	No Asphalt Smell		
Science and Technology Addition	No Asphalt Smell		

### Aerosol Monitoring Findings

Table 4 – Aerosol Monitoring Summary					
Location	Time	PM Respirable	PM 10	Concentration (mg/m <sup>3</sup> )	
	10:00 am	0.007	0.008	0.007	
New Main Office - Exterior	11:00 am	0.015	0.007	0.010	
	01:00 pm	0.006	0.010	0.011	
	10:00 am	0.046	0.098	0.168	
Hallway – Outside Room 49	11:00 am	0.054	0.100	0.196	
	01:00 pm	0.066	0.085	0.121	
	10:00 am	0.007	0.015	0.033	
Auditorium Corridor	11:00 am	0.003	0.081	0.009	
	01:00 pm	0.000	0.010	0.003	
	10:00 am	0.128	0.224	0.267	
Hallway – Outside Room 12	11:00 am	0.091	0.211	0.300	
-	01:00 pm	0.145	0.176	0.288	
	10:00 am	0.079	0.143	0.361	
Science/Technology Addition	11:00 am	0.081	0.137	0.297	
	01:00 pm	0.121	0.158	0.372	
Determine Main Devilation of 1	10:00 am	0.034	0.066	0.187	
Between Main Building and	11:00 am	0.010	0.030	0.047	
Sci/Tech Add Exterior	01:00 pm	1.210	1.450	2.100	
	10:00 am	0.092	0.185	0.275	
Hallway – Outside New Gym	11:00 am	0.101	0.200	0.315	
5	01:00 pm	0.083	0.176	0.210	

Table 4 – Aerosol Monitoring Summary					
Location	Time	PM Respirable	PM 10	Concentration (mg/m <sup>3</sup> )	
	10:00 am	0.004	0.008	0.006	
Portables - Exterior	11:00 am	0.002	0.007	0.004	
	01:00 pm	0.017	0.009	0.015	
	10:00 am	0.119	0.226	0.405	
Hallway – Outside Room 14	11:00 am	0.111	0.147	0.315	
	01:00 pm	0.101	0.214	0.410	
	10:00 am	0.080	0.063	0.172	
Hallway – Outside Cafeteria	11:00 am	0.092	0.081	0.199	
	01:00 pm	0.009	0.012	0.015	
	10:00 am	0.000	0.000	0.008	
Staff Parking – Exterior	11:00 am	0.001	0.006	0.005	
	01:00 pm	0.000	0.008	0.105	
Hallway – Outside Media Center	10:00 am	0.072	0.087	0.106	
	11:00 am	0.081	0.011	0.121	
	01:00 pm	0.073	0.002	0.010	

#### Conclusion:

In conclusion, the baseline sampling data determined airborne Asphalt Fumes concentrations were below the NIOSH TLV-TWA adopted value during the period of sampling. In addition,  $H_2S$  and CO concentrations were not present or at concentrations below the gas meters detectable range. Oxygen levels were at the expected levels.

OSHA has a Permissible Exposure Limit (PEL) for respiratory dust not to exceed 5.0 mg/m<sup>3</sup>, during spot sampling, readings taken at the time of the survey were below the OSHA PEL. During survey, KCI noted that at 1300 between the Science/Technology building and the Main building, readings reached 2.100 mg/m<sup>3</sup>. KCI and MCPS agree that further Aerosol monitoring should be conducted at this location to gather additional data for analysis.

During sampling, asphalt roofing activities were being performed.

If you have questions or comments regarding this report, please contact me.

Sincerely, KCI Technologies, Inc

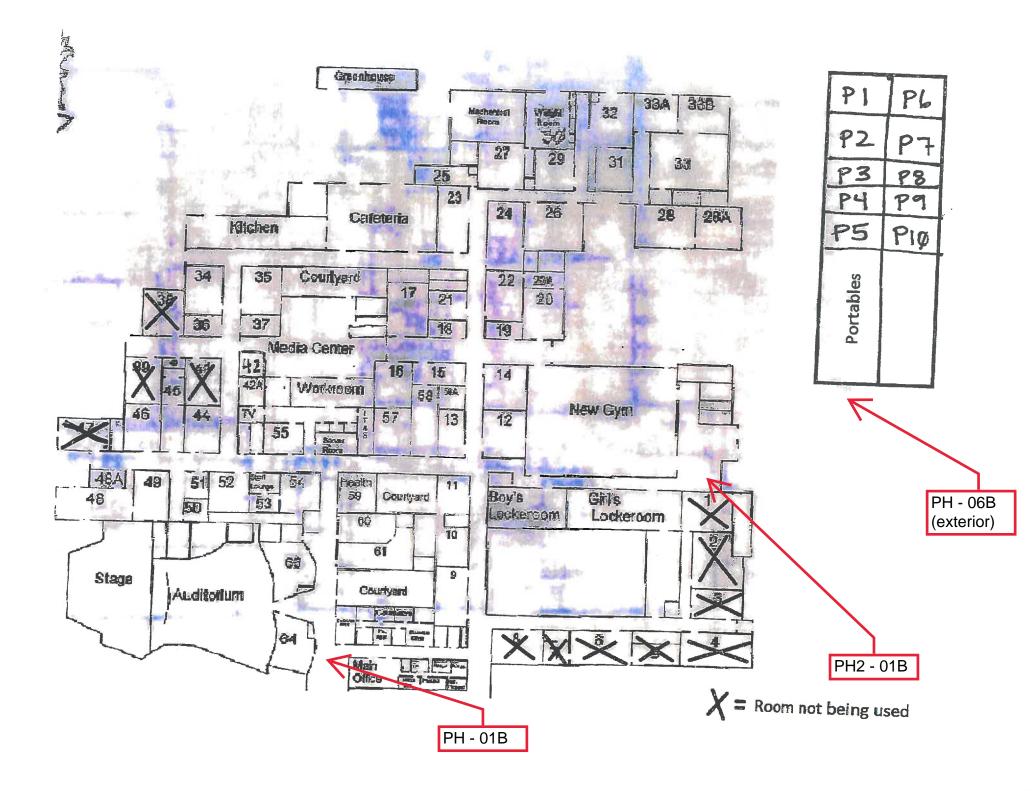
Tyler McCleak

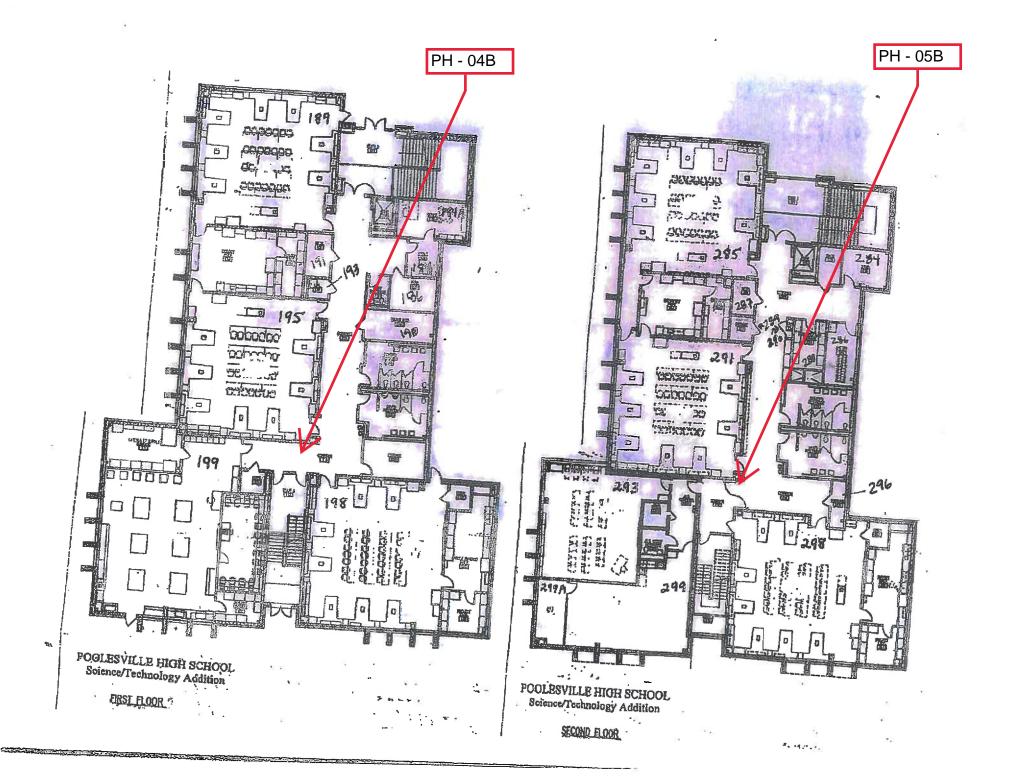
Tyler McCleaf, CSP, RMP Certified Safety Professional KCI Technologies, Inc.

Attachment A: Sample Locations Attachment B: Laboratory Certificate of Analysis Report for Air Samples Attachment C: Dust Sampling Locations

M:\2023\122302497\REPORTS\4.13.23 REPORT\LETTER REPORT-4.13.23 AIR SAMPLING\_POOLESVILLE HS.DOC

## Attachment A Sample Locations





## Attachment B Laboratory Certificate of Analysis Report for Air Samples



Jon Coale KCI Technologies 936 Ridgebrook Road Sparks Glencoe, MD 21152 May 04, 2023

Account# 17844

Login# L592408

**Dear Jon Coale:** 

Enclosed are the analytical results for the samples received by our laboratory on April 26, 2023. 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-Luab

Lisa Swab Laboratory Director

**Enclosure(s)** 



#### ANALYTICAL REPORT

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

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

#### **Analytical Disclaimers**

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

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

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

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

#### Legend

< - Less than > - Greater than	mg - Milligrams ug - Micrograms m2 - Cubia Matara	MDL - Method Detection Limit NA - Not Applicable	ppb - Parts per Billion 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



## LABORATORY ANALYSIS REPORT

Client

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

Client	: KCI Technologies	
Site	: NS	
Project No.	: POOLESVILLE HS	
Date Sampled	: 24-APR-23	
Date Received	: 26-APR-23	

Account No.: 17844 Login No. : L592408

Date Analyzed : 04-MAY-23 Report ID : 1356396

#### Asphalt Fumes (Benzene-Soluble Fraction)

Sample ID	Lab ID	Air Vol liter	Total mq	Conc mg/m3
PH-01B	L592408-1	345	<0.10	<0.29
PH-02B	L592408-2	343	<0.10	<0.29
PH-03B	L592408-3	342	<0.10	<0.29
PH-04B	L592408-4	342	<0.10	<0.29
PH-05B	L592408-5	342	<0.10	<0.29
PH-LB	L592408-6	NA	<0.10	NA
PH-FB	L592408-7	NA	<0.10	NA
PH-06B	L592408-8	340	<0.10	<0.29

<u>COMMENTS:</u> Please see attached lab footnote report for any applicable footnotes.

Level of Quantitatio	on: 0.10 mg	Submitted by: PMH	Approved by: JGC
Analytical Method	: mod. NIOSH 5042; Gravimetric	Date : 04-MAY-23	
Collection Media	: PTFE PW lu 37mm	Supervisor : JGC	



LABORATORY FOOTNOTE REPORT

Client Name : KCI Technologies Site Project No. : POOLESVILLE HS

Date Sampled : 24-APR-23 Date Received: 26-APR-23 Date Analyzed: 04-MAY-23 Account No.: 17844 Login No. : L592408

L592408 (Report ID: 1356396):

6601 Kirkville Road East Syracuse, NY 13057

FAX: (315) 437-0571

www.sgsgalson.com

(315) 432-5227

SOPs: ic-asphalt(26) BSF = Benzene Soluble Fraction

L592408 (Report ID: 1356396):

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.

93%

Parameter	Accuracy	Mean Recovery

Asphalt Fumes (Benzene-Soluble Fraction) +/-15.7%



## ing a series y ....

# CHAIN OF CUSTODY

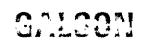
1	~	
1	$I \rightarrow $	
	0)	
	_	

L5512408	>	, .tray edi	i and complete th	s COC electron	icaliy by [c.g	ging in to your	Client Portal acco	unt at Lupsta	;ortal.galsoniabs.cg	im:				
Standard	0%			<u> </u>										
. 4 Business Days	35%	Client Acct N	lo.: R	eport To : <u>Jo</u> :	Jon Coale				Invoice To :	Accou	unts Payable			
3 Business Days	50%	17844 Company Name :			KCI Technologies				Company Name: KCI TECHNOLOGIES INC					
2 Business Days	75%	Original Prov	NL		936 Ridgebrook Road				Address 1: 936 Ridgebrook Road					
Next Day by 6pm	100%	, °				Sparks Glencoe, MD 21152								
Next Day by Noon	150%									Sparks, MD 21152				
Same Day	200%	CS Rep:				410 - 891 - 1810				0.: 410 - 316 - 0818				
C Complete subscript of uni-	TLANCASTER				Jonathan.Coale@kci.com				•	ss: ap@kci.com				
	□ Samples submitted using the FreePumpLoan™ Program			·	Jonathan.Coale@kci.com				Comments : P.O. No. :					<u>.                                    </u>
Samples submitted using		Online COC	NO.:	mments :							Il call SGS Galson to p	ovide cre	edit card	info
FreeSamplingBadges™ I	Program	269638									d on File (enter the last			
Comments :		,,,							State Sampled	P	lease indicate which O	El (c) this	data wil	he used for :
	•		_							1	OSHA PEL 🕅 ACGI			
	ų į	when	Schoble	. only					MD			_ [] Ot		
											Specify Limit(s			oify Other
Site Name :		Proje	ct: Poolesvil	le HS		Sampled By :	Tyler Mi	Clast		of indus	try or Process/interfere	nces pre	sent in sa	Impling area :
Sample ID * (Maximum of 20 Characte	ers) [	ate Sampled *	Collectio	n Medium	Sa	ple Volume nple Time nple Area *	Liters Minutes in², cm², ft² *	Ar	alysis Requested	Method Reference A Pro		Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)		
PH-01B		4/24/23	37mm 1um PW (black band		<b>N</b> .	545	L	Asphalt Dust)	: Fume (as Tot	Total mod. NIOSH 14/4; GRAV		COSH 5042/MDHS GRAV		-
PH-02B		4/24/23	37mm 1um PW (black band	•	3	43	L	Asphalt Dust)	: Fume (as Tot	s Total mod. NIOSH 5042/MD 14/4; GRAV		MDHS	s	
If the method(s) indica	ted on the	COC are not out	routine/preferred	method(s), we	will substitu	ite our routine/	preferred method	s. If this is not	acceptable, check h	nere to I	have us contact you.			
Chain of Custody		Print Name / Si	gnature		Date	Time			Print Name /	Signatu	ıre	Da	te	Time
Relinquished By :		18cm	Som Ethe		he ILAU	Received By :	VALL	ŕ	ų	44		033	1303	
Relinquished By :	Υ		00				Received By :	Numr	yn L. Drog	0 <i>0</i> 5	atrud Erroz-	142	<u> </u>	1,700
			* 1			-	nples which you a dered as next day'	-	- <u></u>		Online COC No. Prep No. Account No. Draft	: PSY692 : 17844		2 PM
	All se	rvices are rende	red in accordance	with the applica	ble SGS Ge	neral Conditio	ns of Service acces	ssible via: http	://www.sgs.com/en	/Terms	-and-Conditions.aspx			

SGS North | 6601 Kirkville Road E. Syracuse, NY 13057, USA t+1 888 432 5227 | +1 315 432 5227 www.galsonlabs.com | www.sgs.com Page 5 of 6 Reporta Reference:1 Generated:04-MAY-23 15:45



Comments :



## CHAIN OF CUSTODY

		·						
Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	San	ple Volume nple Time ple Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
PH-03 B	4/24/23	37mm 1um PW PTFE, 2 (black band)	<sup>2pc</sup> 3	42	L	Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric	
PH-04 \$		37mm 1um PW PTFE, 2 (black band)	<sup>2pc</sup> 3	42		Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric	
PH-05B		37mm lum PW PTFE, 2 (black band)	<sup>2pc</sup> 3	42		Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric	
PH-LB		37mm 1um PW PTFE, 2 (black band)		JA		Asphalt fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric	
PH- FR	7×7	37mm 1um PW PTFE, 2 (black band)		vA_		Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric	
PH-06 B	H	37mm 1um PW PTFE, 2 (black band)	Ape 3	લહ	4-	Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric	
	<u> </u>							
If the method(s) indicated on	the COC are not our	routine/preferred method(s),	, we will substitu	te our routine	/preferred methods. I	If this is not acceptable, check he	ere to have us contact you.	
Chain of Custody	Print Name / Si	gnature	Date	Time		Print Name / S	ignature	Date Time
Relinquished By : TM Relinguished By :		the west	·X/28/23	1100	Received By : Received By :	Kathryn L. Drogo	Kaling Bras	42003 1323
<b>/</b>	I I	Samples re	eceived after 3pn	n will be cons	nples which you are idered as next day's l	submitting. business.	Online COC No. : Prep No. : Account No. : Draft :	PSY692971
A	If services are render	ed in accordance with the ap				ble via: http://www.sgs.com/en/1		

.

SGS North | 6601 Kirkville Road E. Syracuse, NY 13057, USA t +1 888 432 5227 | +1 315 432 5227 www.galsonlabs.com | www.sgs.com | Page 6 of 6 Reports Reference:1 Generated:04-MAY-23 15:45

## Attachment C Dust Sample Locations

Smith & Haines

Auditorium Corridor 10:00: .007 | .015 | .033 11:00: .003 | .081 | .009 13:00: .000 | .010 | .003 49 Hallway 10:00: .046 | .098 | .168 11:00: .054 | .100 | .196 13:00: .066 | .085 | .121

Outside- Main Office 10:00: .007 | .008 | .007 11:00: .015 | .007 | .010 13:00: .006 | .010 | .011

12 Hallway 10:00: .128 | .224 | .267 11:00: .091 | .211 | .300 13:00: .145 | .176 | .288

ville

esville chool

urch

Basketball court

Closv/Ne High School

Sci/Tech Lobby 10:00: .079 | .143 | .361 11:00: .081 | .137 | .291 13:00: .121 | .158 | .372

W William

1 1 2

> Outside- Between Main Building and Sci/Tech Addition 10:00: .034 | .066 | .187 11:00: .010 | .030 | .047 13:00: 1.21 | 1.45 | 2.10

Gym Hallway 10:00: .092 | .185 | .275 11:00: .101 | .200 | .315 13:00: .083 | .176 | .210 Media Center Hallway 10:00: .072 | .087 | .106 11:00: .081 | .011 | .121 13:00: .073 | .002 | .010

Wootton Ave

Staff Parking 10:00: .000 | .000 | .008 11:00: .001 | .006 | .005 13:00: .000 | .008 | .105

Cafeteria Hallway 10:00: .080 | .063 | .172 11:00: .092 | .081 | .199 13:00: .009 | .012 | .015

Wootton Ave

14 Hallway 10:00: .119 | .226 | .405 11:00: .111 | .147 | .315 13:00: .101 | .214 | .410

> Outside- Portable 10:00: .004 | .008 | .006 11:00: .002 | .007 | .004 13:00: .017 | .009 | .015