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

June 5, 2023

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

Ref: Sampling for Asphalt Fumes and Hydrogen Sulfide Gas – 5.10.2023 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, Ms. Brittany Maas, 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 May 10, 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/m³ 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 (H₂S), carbon monoxide (CO), and oxygen (O₂) 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, there was no asphalt smell noted outside of the building. KCI placed six (6) sampling pumps set to approximately 1 liter per minute in locations pre-determined 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.

KCI conducted the screening from approximately 07:45 until 14:30. Conditions during the sampling period were clear skies and 38°F - 42°F. Winds were between 3 and 7mph with no gusts from N, NNE, and WNW.

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).

<u>Results:</u>

Table 1 – Asphalt Fumes Sampling Summary							
Location	Sample Number	Concentration (mg/m ³)	Above TLV-TWA?				
Arts Hallway – Outside Room 44	PHS – 01F	<0.28	No				
Auditorium Lobby	PHS – 02F	<0.28	No				
Science Building 1 st Floor – Outside Room 184	PHS – 03F	<0.28	No				
Science Building 2 nd Floor – Outside Room 284	PHS - 04F	<0.28	No				
Outside of Gym Entrance (exterior)	PHS – 05F	<0.28	No				
West End of Portables	PHS – 06F	<0.28	No				
Field Blank	PHS - 07F	N/A	N/A				
Lab Blank	PHS – 08F	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	Oxygen (O ₂)	Carbon Monoxide (CO)	Hydrogen Sulfide (H ₂ S)			
0800 - 0820	20.8	0	0			
0830 - 0835	20.8	0	0			
0900 - 0905	20.8	0	0			
0930 - 0935	20.8	0	0			
1000 - 1005	20.8	0	0			
1030 - 1035	20.8	0	0			
1100 - 1105	20.8	0	0			
1130 - 1135	20.8	0	0			
1200 - 1205	20.8	0	0			
1230 - 1235	20.8	0	0			
1300 - 1305	20.8	0	0			
1330 - 1335	20.8	0	0			
1400 - 1420	20.8	0	0			

Olfactory Findings

During walkthroughs, KCI noted the following asphalt smells:

Table 3 – Olfactory Investigation Summary							
Location	Findings						
Location	Morning	Mid-Day	End of Day				
Exterior Outside New Main	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell				
Office							
Exterior Between Main Building	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell				
& Science/Tech Addition							
Exterior By Portables	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell				
Main Lobby	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell				
Art Hallway	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell				
Auditorium Corridor	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell				
Gym Hallway	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell				
Science and Technology	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell				
Addition	-	_	_				
Student Parking Lot	No Asphalt Smell	No Asphalt Smell	No Asphalt Smell				

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.

During sampling, asphalt roofing activities were being performed.

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

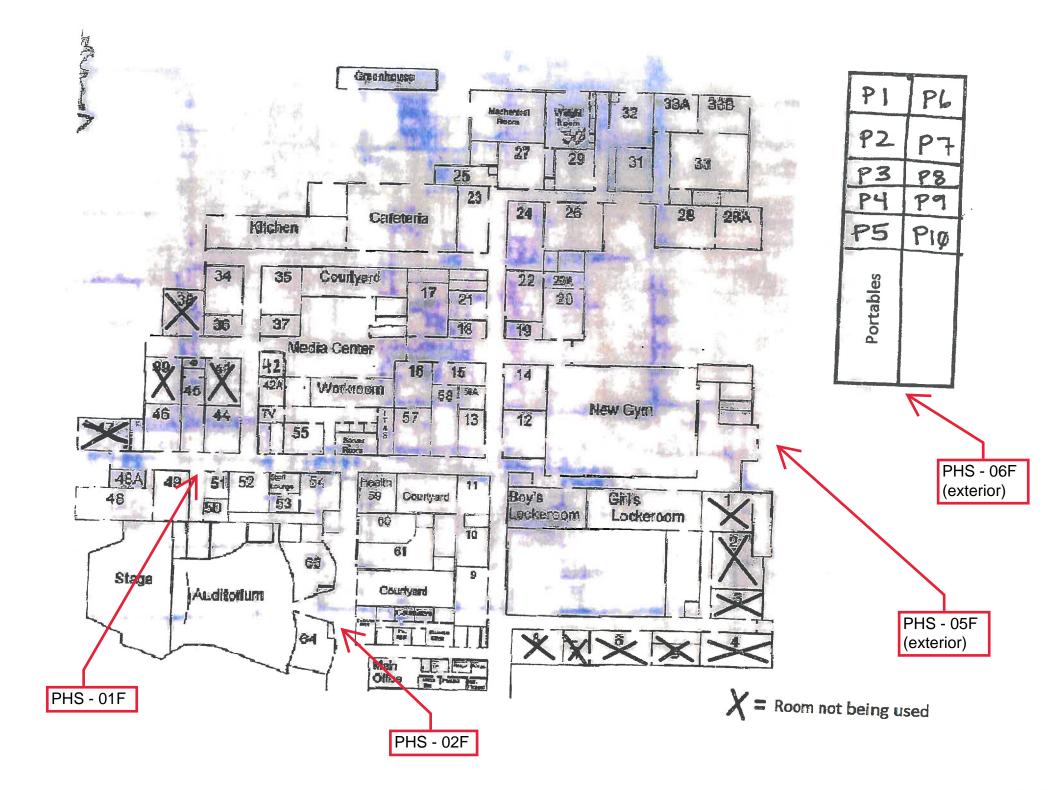
Sincerely, KCI Technologies, Inc

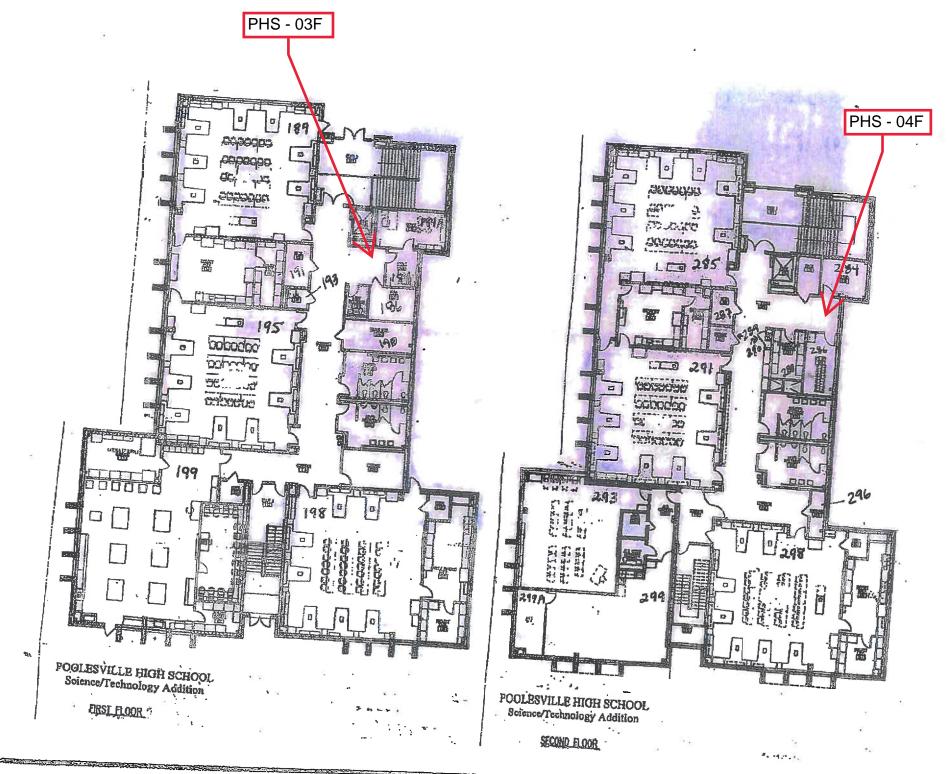
Jonathan S. Coale, CIH, CIEC Certified Industrial Hygienist KCI Technologies, Inc.

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

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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 16, 2023

Account# 17844

Login# L593874

Dear Jon Coale:

Enclosed are the analytical results for the samples received by our laboratory on May 11, 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 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
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

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

Client	: KCI Technologies	Account No.: 17844
Site	: POOLSVILLE HIGH SCHOOL	Login No. : L593874
Project No.	: POOLSVILLE HS	
Date Sampled	: 10-MAY-23	Date Analyzed : 16-MAY-23
Date Received	: 11-MAY-23	Report ID : 1358320

Asphalt Fumes (Benzene-Soluble Fraction)

Sample ID	<u>Lab ID</u>	Air Vol liter	Total mg	Conc mg/m3
PHS-01F	L593874-1	360	<0.10	<0.28
PHS-02F	L593874-2	360	<0.10	<0.28
PHS-03F	L593874-3	360	<0.10	<0.28
PHS-04F	L593874-4	360	<0.10	<0.28
PHS-05F	L593874-5	360	<0.10	<0.28
PHS-06F	L593874-6	360	<0.10	<0.28
PHS-07F	L593874-7	NA	<0.10	NA
PHS-08F	L593874-8	NA	<0.10	NA

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

Level of Quantitation: 0.10 mg	Submitted by: KGB	Approved by: JGC
Analytical Method : mod. NIOSH 5042; Gravimetric	Date : 16-MAY-23	
Collection Media : PTFE PW 1u 37mm	Supervisor : JGC	



LABORATORY FOOTNOTE REPORT

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

Client Name : KCI Technologies Site : POOLSVILLE HIGH SCHOOL Project No. : POOLSVILLE HS

Date Sampled : 10-MAY-23 Date Received: 11-MAY-23 Date Analyzed: 16-MAY-23 Account No.: 17844 Login No. : L593874

L593874 (Report ID: 1358320):

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

L593874 (Report ID: 1358320):

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%

L593874

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s 50% 17 s 50% 17 s 75% Ori n 100% PS n 150% CS / 200% CS sing the gram Oni TL sing the gram Oni 27	ent Acct No.: 844 iginal Prep No 956557 Rep: ANCASTER line COC No.: 1102 (0396 R	Company Name : Address 1 : Address 2 : City, State Zip : Phone No. : Cell No. : Email reports to :	KCI Te 936 Ri Sparks 410 - Jonath Jonath	echnologies idgebrook Road s Glencoe, MD 2 891 - 1810 nan.Coale@kci.c	:0m		Company Name : Address 1 : Address 2 : City, State Zip : Phone No. : Email Address : Comments : P.O. No. : Payment info. :	936 Ridgebr Sparks, MD 410 - 316 - ap@kci.com I will call SGS Card on File 1: Please ind	OGIES INC cook Road 21152 0818	e digits on th	ne line below) vill be used for
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Samples received after 3pm will be considered as next day's business. Online COC No. : 271102 Prep No. : PSYEBSE677 Account No. : 17844 Draft : 5/2/2023 2:28:00

Inc.

772091310860 Date:05/11/23 Shipper:FEDEX Initials:AMF

Prep:UNKNOWN

Page 5 of 6 Report Reference (Control of the Contr





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Comments	
Comments	٠

- Page Sample Volume Liters Sample ID * Date Sampled * **Collection Medium** Sample Time Analysis Requested Minutes (Maximum of 20 Characters) Sample Area * in2, cm2, ft2 *

	Tacters			San	nple Area *	in², cm², ft² *		2	plating, painting, etc	c.)
PHS-03F		5/10/23	37mm 1um PW PTFE, 2 (black band)	^{2pc} 3	60	Ĺ	Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric		
PHS-04F		5/10/23	37mm 1um PW PTFE, 2 (black band)	^{2pc} 3	60	\mathbf{L}	Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric		_
PHSOSF		5/10/83	37mm 1um PW PTFE, 2 (black band)		0 ما	L	Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric		
PHS-06F		5/10/23	37mm 1um PW PTFE, 2 (black band)	^{2pc} 3	60	\sim	Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric		
PHS-07F	-	5/10/23	37mm 1um PW PTFE, 2 (black band)	2pc			Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric		
PHS- 08 P	2	5/10/23	37mm 1um PW PTFE, 2 (black band)	2рс			Asphalt Fume (Benzene Soluble Fraction)	mod. NIOSH 5042; Gravimetric		
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If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.										
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Hexavalent Chromium

Process (e.g., welding,

Method Reference ^

America, Inc.