

August 31, 2019

John Trenholm Director of Plant and Facilities Scarsdale Public Schools 2 Brewster Road Scarsdale, NY 10583

Re: Greenacres Elementary School Post-Construction Air Quality Evaluation

### **Executive Summary**

At your request on behalf of the Scarsdale School District, WSP conducted a post-construction air quality evaluation at Greenacres Elementary School located at 41 Huntington Ave, Scarsdale, NY 10583. The purpose of the evaluation was to perform air and surface testing and a thorough visual inspection of the classrooms where construction occurred to ensure air quality and the condition of the rooms was acceptable for occupancy prior to school opening. The evaluation was performed on August 30th and 31st, 2019 by Professional Engineer (PE) and Certified Hazardous Materials Manager (CHMM), Mr. Michael Johnson, Industrial Hygiene Manager, Andrew Cheskin, and Environmental Specialists, Mr. Nicholas Casale and Stephanie Carhuayano.

The visual inspection found few observed residual construction-related action items to be addressed in the rooms as detailed in the visual inspection section of this report. These remaining items were identified during a walkthrough with facilities on August 31st. The results of the air monitoring conclude that dust levels are well below applicable regulations and guidelines. Comfort parameters were in range for most of the rooms. Though VOCs are within typical ranges for indoor air, levels could be reduced prior to opening of the school. Recommendations include addressing the action items identified during the visual inspection of the rooms and ventilate the rooms during remaining preparation activities (cleaning, waxing, etc.).

#### Background

The Scarsdale School District performed renovations of eleven (11) classrooms on the south side of the Greenacres Elementary School over the summer of 2019, completing construction on August 30<sup>th</sup>, 2019. As part of an environmental diligence plan, WSP was contacted by facilities on May 9, 2019 to perform an air quality survey and room inspection after renovation of the rooms was completed.

### **Evaluation Methodology**

WSP designed an evaluation approach consisting of a thorough visual inspection of the rooms, collection of a comprehensive set of direct read air quality parameter measurements, active sampling for asbestos fibers, and sampling of surfaces for lead content.

565 Taxter Rd | Elmsford | NY | 10523 | USA | Tel +1.212.612.7900



### Visual Inspection

The rooms were visually inspected for remaining evidence of construction activities including debris, tools, visible dust, supplies, and any other suspected remaining materials. Discovered items were brought to the attention of facilities to address. Behind furniture and fixtures were inspected as accessible. Photos of the rooms were collected for documentation purposes.

#### Real-time Measurements

Real-time air measurements were performed in each renovated classroom. An outdoor measurement was collected as a reference measurement. The following parameters were measured:

#### Measured Parameters

$\Diamond$	Particulate	Matter 2	$5 \text{ (PM}_{2.5}$	)
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♦ Particulate Matter 10 (PM<sub>10</sub>)

♦ Total Particulate Matter (TPM)

♦ Temperature

♦ Relative humidity

♦ Carbon monoxide

♦ Carbon dioxide

♦ Total Volatile Organic Compounds

Particulate matter was integrated over a 5-minute interval, while other parameters were allowed to stabilize for at least 5 minutes prior to collection.

A Lighthouse Handheld 3016-IAQ monitor was used to measure PM<sub>2.5</sub>, respirable dust (<PM<sub>10</sub>), and total dust (TPM). Note, respirable dust measurements with direct read instruments vary from compliance sampling methods (NMAM 0600) as they are not size selective. The instrument was calibrated prior to the site visit according to manufacturer recommendations.

A Fluke AirMeter, model 975 was used to measure carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), temperature, and relative humidity (RH). The instrument was certified as calibrated prior to the site visit according to manufacturer recommendations.

A RKI, model GX-6000 five-gas meter was used to measure TVOCs in the parts per billion (ppb) range. Carbon monoxide (CO) measurements were also recorded. The instrument was calibrated prior to the site visit according to manufacturer recommendations.

### Asbestos and Lead Sampling

Air asbestos samples were collected on 25-millimeter diameter mixed cellulose ester filter cassette at a flow rate of 9 liters per minute, with at least 1,250 liters collected. Cassettes were placed on stands at approximately 4 feet high. Samples were analyzed by transmission electron microscopy (TEM), which is a high magnification method that can identify asbestos fibers by morphology and crystalline structure. Samples were analyzed by method AHERA 40 CFR, Part 763 by EMSL Analytical, Inc. in Carle Place, New York.

Lead dust samples were collected according to USEPA lead dust wipe procedures and analyzed by atomic absorption spectrometry by EMSL Analytical, Inc. in Carle Place, New York. Window wells, window sills,



univent grills, floors, and adjacent hallways in each room were sampled (univents requested). The clearance standards used were based on the EPA's revised Dust-Lead Hazard Standards which lowered the clearance levels for floors from 40 ug/ft2 to 10 ug/ft2 and for Window Sills from 250 ug/ft2 to 100 ug/ft2. Window Troughs remain at 400 ug/ft2.

#### **Assessment Results**

#### Visual Inspection

The table below shows the construction related observations made for each classroom. Photographs can be found in Appendix A.

Classroom	Observation
4	Level (tool) found.
5	Dust on bathroom wall.
6	Minor dust/debris on shelf under AC. Dust on bathroom wall.
7	None.
8	Exposed radiator piping and missing trim in bathroom.
9	None.
10	Exposed wires on wall near entrance and pin board had fallen from wall.
10A	None.
11	Exposed nails, loose screws and outlet covers.
12	None.
13	Minor debris on AC coils.

A walkthrough with the head custodian was performed to identify the issues so they could be rectified prior to the opening of school.

#### Real-time Monitoring

The table below shows the air measurement results for each parameter by location and includes New York Public Employees Safety and Health (PESH) standards, United States Environmental Protection Agency (USEPA) National Ambient Air Quality Standards (NAAQS), and applicable American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) standards for comparison to the results.

New York PESH standards are occupational exposure limits for a time weighted average 8 hour work day. The EPA NAAQS are much more stringent standards for outdoor ambient air and are generally regarded as more applicable for indoor air comparisons than the occupational limits in some cases. NAAQS values for PM<sub>2.5</sub>, PM<sub>10</sub>, and CO are included. The PM values are limits based on 24-hour averages, while the CO is based on an 8-hour average. The ASHRAE 62.1-2016 standard, Ventilation for Acceptable Indoor Air Quality, states that a CO2 value less than 700 parts per million (ppm) above outside ambient levels will result in the majority of personnel being satisfied with air quality in regard to fresh air exchange. The primary reason that the ASHRAE guidelines are much lower than the regulatory guidelines is that they are designed for comfort. While no



regulatory standards exist for temperature and humidity for buildings, ASHRAE produces guidelines that are widely accepted. Their standard 55-2017, Thermal Environmental Conditions for Human Occupancy, has such guidelines. A general range for temperature (summer season) and humidity is listed assuming typical conditions for clothing, air movement, radiant heat, and other factors.

The TVOC standard is based on the 8-hour exposure limit for benzene, as the instrument cannot distinguish individual volatile organic compounds unless actual compounds are known. The TVOC measurement is a screening approach to determine if there is a reason for further sampling. Additionally, the RKI requires application of a correction factor for measuring benzene of 0.46. Therefore, the actual measurements are conservative by a factor of approximately 2 when compared to the standard for benzene. TVOC levels can be compared to other typical values for indoor air. According to the AIHA, user specific indoor VOC sources can include solvents present in art supplies, cleaning products, disinfectants, air fresheners, dry erase markers, and even occupants themselves (perfumes, aftershave, or deodorants) with typical total VOCs indoors ranging from 50 to 1000 (ug/m3). Results can also be compared to values determined from studies published by Dr. Lars Molhave discussed in "Total Volatile Organic Compounds in Indoor Air Quality Investigations". This study details the relation between low levels of total VOCs and human health and comfort. Less than 200 ug/m3 is expected to result in no discomfort, while 200-3,000 ug/m³ is a multi-factorial exposure range which may result in discomfort if other factors are present such as excessive dust, light, noise, or uncomfortable thermal conditions.

Location	Time	$PM_{2.5}$	$PM_{10}$	TPM	TVOC	TVOC*	CO	$CO_2$	Temp.	RH
Location	Time	$(\mu g/m^3)$	$(\mu g/m^3)$	$(\mu g/m^3)$	(ppb)	$(\mu g/m^3)$	(ppm)	(ppm)	(°F)	(%)
Occupati NY PE			5,000	15,000	1,000	3,319	35			
Environm EPA NA		35	150				9			
ASHR Standa							9	1,150	73 - 78	20 - 65
AIHA Ind Typical l						50 - 1,000				
4	13:28	3.9	20.3	26.4	245	563	0	532	77.9	52.5
5	13:43	3.2	15.0	16.8	49	113	0	460	76.1	50.3
6	13:48	3.7	46.0	55.7	60	138	0	447	76.1	51.9
7	14:00	2.5	15.1	16.6	180	414	0	438	77	48.8
8	14:07	2.8	16.0	18.5	376	864	0	439	78.8	50.4
9	14:14	3.0	12.2	13.5	317	729	0	468	79.7	48.2
10	14:53	2.0	60.7	81.6	203	467	0	511	75.2	49.6
10A	14:58	2.0	38.8	55.8	172	395	0	554	77	53.4

11	5	

Location	Time	PM <sub>2.5</sub> (μg/m <sup>3</sup> )	PM <sub>10</sub> (μg/m <sup>3</sup> )	TPM (μg/m³)	TVOC (ppb)	TVOC* (μg/m³)	CO (ppm)	CO <sub>2</sub> (ppm)	Temp.	RH (%)
Occupati NY PE			5,000	15,000	1,000	3,319	35			
Environm EPA NA		35	150				9			
ASHR Standa							9	1,150	73 - 78	20 - 65
AIHA Ind Typical I						50 - 1,000				
11	14:38	2.5	18.5	22.9	357	821	0	465	77	52.1
12	14:31	2.5	11.5	14.8	222	510	0	443	77	51
13	14:27	2.7	10.1	11.1	98	225	0	433	76.1	47.5
Outdoor	15:12	1.7	20.9	32.5	0	0	0	451	77.9	36.9

<sup>\*</sup> Total VOC ug/m3 = [ppb × molecular weight isobutylene (56.11 g / mol)] ÷ 24.45 (molar volume @ 25 °C / 77 °F).

The results indicate that dust levels are well below the PESH permissible exposure limits (PELs) and EPA NAAQS for PM2.5, PM<sub>10</sub>, and total dust. TVOC readings were greater than 200 ug/m³ for most of the rooms, however, were within the multi-factoral range and within typical levels for indoor air. Given the absence of other factors it is unlikely discomfort would result from these levels. Levels can be primarily attributed to cleaning occurring during the morning of the 31st, with potential residual VOCs from construction activities observed on the 30th (trim painting and pin board hanging). Levels were observed to drop by half from the morning to the afternoon on the 31st with windows open, ventilating the rooms. CO was 0 ppm for all readings. Outdoor CO<sub>2</sub> levels measured during the assessment were approximately 450 ppm, therefore the indoor levels measured did not exceed the ASHRAE guidelines for occupant comfort (>1,150 ppm) however, the rooms were largely unoccupied during the evaluation. Occupants generate CO<sub>2</sub> throughout the day which accumulates indoors and decreases depending on outdoor air exchange. These readings are likely to differ when taken while the building is occupied. Temperature readings were slightly outside the recommended range for two (2) rooms, however, the air conditioning was off at the time of inspection and would likely be within range if used. Relative humidity readings were within the recommended ranges.

#### Asbestos Sampling

Air asbestos samples results were non-detect for the sampling on the 30th, except for samples in rooms 4 and 8, which were overloaded (unable to be analyzed due to too much collected material on the filter). Rooms 4 and 8 were resampled on the 31st and were reported as non-detect. This is the lowest possible result and is well below health and clearance limits. Asbestos results are found in Appendix B.

#### **Lead Sampling**

The results of the lead sampling on the 30<sup>th</sup> indicated that the only samples that exceeded EPA's revised Dust-Lead Hazard Standards were the hallway samples outside of classrooms 4 and 7. This is likely due to observed



dust on the floor tracked in by occupants as lead naturally occurs in soil at levels ranging 50 to 500 mg/kg<sup>1</sup>. These areas were recleaned, and resampled on the 31st. These two follow-up samples passed EPA standards for floors (<10 ug/ft<sup>2</sup>). Lead dust sample results are found in Appendix C.

#### Recommendations

The visual inspection found few observed residual construction-related action items to be addressed in the rooms as detailed in the visual inspection section of this report. These remaining items were identified during a walkthrough with facilities on August 31st. The results of the air monitoring conclude that dust levels are well below applicable regulations and guidelines. Comfort parameters were in range for most of the rooms. Though VOCs are within typical ranges for indoor air, levels could be reduced prior to opening of the school.

Based on the results of this evaluation, WSP recommends the following:

- 1. Rectify the action items identified during the visual inspection prior to opening of the school.
- 2. Provide additional ventilation to the rooms (open windows) during remaining preparation activities (cleaning, waxing, etc.)

### Limitations, Exceptions and Assumptions

Opinions and recommendations presented in this report apply to site conditions and features as they existed at the time of WSP's site visits, and those reasonably foreseeable. They cannot necessarily apply to conditions and features of which WSP is unaware and has not had the opportunity to evaluate. The conclusions presented in this report are professional opinions based solely upon WSP's visual observations of accessible areas and sampling data. These conclusions are intended exclusively for the purpose state herein, at the sites indicated, and for the project indicated. No expressed or implied representation or warranty is included or intended in our reports, except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession.

If you have any questions concerning this information, please feel free to contact me at (212) 612-7900.

Sincerely,

Michael J. Johnson, PE CHMM

Industrial Hygienist MA# 01190

Cc: C. Napolitano

<sup>1</sup> https://www.epa.gov/lead/learn-about-lead



**APPENDIX A** 

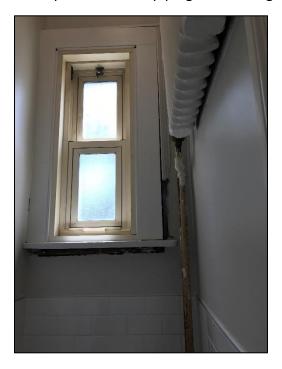
Photolog



Room 5 – Dust on bathroom wall.



Room 8 – Exposed radiator piping and missing trim.





Room 11 – Exposed nails.



Room 11 – Remaining screw (removed).

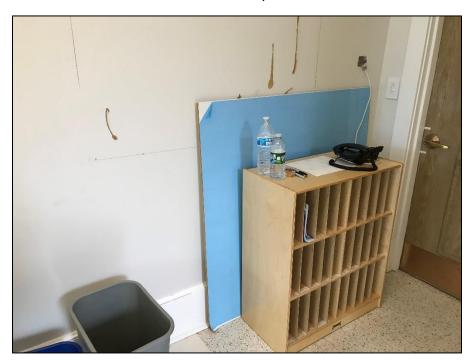




Room 10 – Exposed wires near door.



Room 10 – Fallen pin board.





### APPENDIX B

Asbestos Sample Results and Chain of Custody



Louis Berger U.S., Inc

New York, NY 10014

96 Morton Street

EMSL Order: 061920381 Customer ID: LBAP78 Customer PO: 2042892.057

Project ID:

Phone: (212) 612-7900

Fax:

**Received Date:** 08/30/2019 13:40 PM

**Analysis Date:** 08/30/2019 **Collected Date:** 08/30/2019

Project: 2042892.057

Attention: SANDRA SANTANA

8th floor

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

		Volume	Area Analyzed	Non	Asbestos	#Structu	res	Analytical Sensitivity	Asb Conce	
Sample	Location	(Liters)	(mm²)	Asb	Type(s)	≥0.5µ < 5µ	≥5µ		(S/mm²)	(S/cc)
1	Room 4	1438.00			Overloaded					N/A
061920381-0001										
2	Room 5	1408.00	0.0645	0	None Detected	0	0	0.0042	<16.00	<0.0042
061920381-0002										
3	Room 6	1424.00	0.0645	0	None Detected	0	0	0.0042	<16.00	<0.0042
061920381-0003										
4	Room 7	1446.00	0.0645	0	None Detected	0	0	0.0041	<16.00	<0.0041
061920381-0004										
5	Room 8	1480.00			Overloaded					N/A
061920381-0005										
6	Room 9	1455.00	0.0645	0	None Detected	0	0	0.0041	<16.00	<0.0041
061920381-0006										
7	Room 10	1462.00	0.0645	0	None Detected	0	0	0.0041	<16.00	<0.0041
061920381-0007										
8	Room 10A	1451.00	0.0645	0	None Detected	0	0	0.0041	<16.00	<0.0041
061920381-0008										
9	Room 12	1447.00	0.0645	0	None Detected	0	0	0.0041	<16.00	<0.0041
061920381-0009										
10	Room 11	1449.00	0.0645	0	None Detected	0	0	0.0041	<16.00	<0.0041
061920381-0010										
11	Room 13	1397.00	0.0645	0	None Detected	0	0	0.0043	<16.00	<0.0043
061920381-0011										

Analyst(s)
------------

Jackson Li (9)

Daniel Clarke, Asbestos Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. Results reported in both structures/cm3 and structures/mm2 are dependent on the volume of air sampled and measured by non-laboratory personnel are not the responsibility of EMSL and are not covered by the laboratory's NVLAP accreditation. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Carle Place, NY NYS ELAP 11469, NVLAP Lab Code 101048-10



Louis Berger U.S., Inc

New York, NY 10014

96 Morton Street

EMSL Order: 061920467 Customer ID: LBAP78 Customer PO: 2042892.056

Project ID:

Phone: (212) 612-7900

Fax:

**Received Date:** 08/31/2019 13:16 PM

**Analysis Date:** 08/31/2019 **Collected Date:** 08/31/2019

**Project:** 2042892.056

Attention: Michael J. Johnson

8th floor

## Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

		Volume	Area Analyzed	Non	Asbestos	#Structu	res	Analytical Sensitivity		estos entration
Sample	Location	(Liters)	(mm²)	Asb	Type(s)	≥0.5µ < 5µ	≥5μ	(S/cc)	(S/mm²)	(S/cc)
1	Room 4	1260.00	0.0645	0	None Detected	0	0	0.0047	<16.00	<0.0047
061920467-0001										
2	Room 8	1260.00	0.0645	0	None Detected	0	0	0.0047	<16.00	<0.0047
061920467-0002										

Analyst(s)

Soaiful Islam (2)

Daniel Clarke, Asbestos Laboratory Manager or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Carle Place, NY NYS ELAP 11469, NVLAP Lab Code 101048-10

OrderID: 061920381

# OGI920381 Asbestos Chain of Custody

## EMSL Order Number (Lab Use Only):



PHONE: · Fax:

Company Name: Louis Berger			EMSL Custo						
Street: 96 Mor	rton .S	<del>)}</del> ·	City: Ne	w York	,	State/Provi	nce: NY		
Zip/Postal Code: 1001		Country:	Telephone #	<b>;</b>		Fax #:			
Report To (Name): SQ	ndra s	<u>xuntana</u>	Please Prov	ide Results:	☐ Fax	_ <b>∐</b> Email			
Email Address: SSCNH(	101@ONE	JISHUXYOV. COM	Purchase O	rder:		-			
Project Name/Number: 2	<sup>2</sup> 34 ho.		EMSL Projec				,		
U.S. State Samples Taken:		II to: ☐ Same ☐ Different -	CT Samples				idential/Tax Exempt		
	EM2F-BI	Third Party Billing requires writ				nts**			
	(M)	Turnaround Time (TAT)	Options* - Pl	ease Check					
3 Hour 6 H		24 Hour	Charge for 3 Ho		6 Hour	L 1 Week			
authorization form for	r this service.	Analysis completed in accordance	with EMSL's Terr	ns and Condition	ons located i	n the Analytical	Price Gutte://		
PCM - Air Check if samp from NY	ples are	<u>TEM - Air</u>	AHERA only)	TEM- Dust			P 727		
NIOSH 7400		AHERA 40 CFR, Part 76	3 (r.s)	Microva	c - ASTM	D 5755	AUG RAIS		
W/ OSHA 8hr. TWA		NIOSH 7402			ASTM D64	180	3 四位		
PLM - Bulk (reporting limit	<u>t)</u>	EPA Level II		Carpet:	Sonication	(EPA 600/J-	93/167)		
☐PLM EPA 600/R-93/116	(<1%) ·	☐ ISO 10312		Soil/Rock/		•	# MS-		
PLM EPA NOB (<1%)		TEM - Bulk			EPA 600/R-93/116 with milling prep (\$1%) EPA 600/R-93/116 with milling prep (\$0.25%)				
Point Count		TEM EPA NOB							
☐400 (<0,25%) ☐1000 (< Point Count w/Gravimetric	<0.1%)	NYS NOB 198.4 (non-fria	ble-NY)						
	<0.1%)	TEM Mass Analysis-EPA	600 sec. 2.5 TEM Qualitative via Drop Mount Prep			•			
NYS 198.1 (friable in NY	·	TEM - Water: EPA 100:2	-		•				
NYS 198.6 NOB (non-fri	·	<u> </u>		(BC only)		·	_ <del>_</del>		
NYS 198.8 SOF-V	lable-IV1)	Fibers >10µm	Drinking 	Other:			•		
☐ NIOSH 9002 (<1%)		All Fiber Sizes  Waste [	Drinking			•			
Check For Positive Sto	p – Clearly	ldentify Homogenous Group	p Filter	Pore Size (A	ir Sample	es): 🔲 0.8	μm []0.45μm		
Samplers Name:	_			Signature:			·		
Sample #		Cample Descripti				/Area (Air)	Date/Time		
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[	NOOW	<u> </u>			14.	<u> </u>	8/39/9 11:06 B		
3	Roon	<u> 15</u>			140	18 L	8:25 am - 11:09		
3	$\mathbb{R}_a$	om 6.			. 4	24 L	8:29 am-		
4	1	Room 7			141	461	8,32am-		
5					14	80 L	8:34am -		
Client Sample # (s):		-			Total # of	Samples:			
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		Page 1 of _	2 pages						



## Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

061920381

PHONE: FAX:

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
6	Room 9	1455 L	8/30/19 P:38 Cm
7	Room O	1462L	8:43an
8	Room 10 A	1431 L	5145am
9	Rasm 12	H47L	8147an-
10	Room 11	1449 L	8.49 am
11	Room 13	13974	8/30/19 8,56am
- 12	Blank		
13	Blank		
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*Comments/Special Inst	ructions:		
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Page 2 of 2 pages

Controlled Document - Asbestos COC - R10 - 05/09/2016



# Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

### 061920467

PHONE: Fax:

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Company Name : LO	vis Berg	er/WSP	EMSL Custo	mer ID:					
	treet		City: ハゾ(		State/Provi	nce: NY			
Zip/Postal Code:		Country:	Telephone #	· ·	Fax #:	•			
Report To (Name): Mic	hael i	10 hnson	Please Prov		Fax Email				
	2 louis berger.com	Purchase O	rder:						
Project Name/Number: 5	EMSL Project	ct ID (Internal Use							
U.S. State Samples Take				: Commercial		idential/Tax Exempt			
	EM2F-R	ill to: ☑ Same ☐ Different - Third Party Billing requires writ			omments**				
	Turnaround Time (TA								
	Hour [	24 Hour 48 Hour lead to schedule.*There is a premium	D 72 Ho						
authorization form	for this service.	Analysis completed in accordance	with EMSL's Terr	ns and Conditions lo	ated in the Analytica	Price Guide.			
PCM - Air Check if sar from NY	nples are	TEM - Air 4-4.5hr TAT (	AHERA only)	TEM- Dust	•				
NIOSH 7400		AHERA 40 CFR, Part 76	$(2y)_{E}$	Microvac - A	STM D 5755				
w/ OSHA 8hr. TWA		NIOSH 7402		│	1 D6480				
PLM - Bulk (reporting lin	ı <u>it)</u>	EPA Level II		Carpet Sonic	et Sonication (EPA 600/J-93/167)				
☐PLM EPA 600/R-93/11	6 (<1%)	☐ ISO 10312		Soil/Rock/Vern					
PLM EPA NOB (<1%)		TEM - Bulk		l —					
Point Count	( = 0.40/ )	TEM EPA NOB	LL NNA .	l —		nilling prep (<0.25%)			
☐ 400 (<0.25%) ☐ 1000 Point Count w/Gravimetric		NYS NOB 198.4 (non-fria	idie-NY)	I ===	iu/R-93/116 with r tive via Filtration F	nilling prep (<0.1%)			
400 (<0.25%) 1000		TEM Mass Analysis-EPA	600 sec. 2,5	I ===	tive via I httation i tive via Drop Mou	•			
NYS 198.1 (friable in N		TEM - Water: EPA 100.2		🛚 🔲 Cincinnatî M		-04/004 - PLM/TEM - )			
NYS 198.6 NOB (non-	•	Fibers >10µm	Drinking	(BC only) Other:		<del></del>			
NYS 198.8 SOF-V		-	<u> </u>			•			
NIOSH 9002 (<1%)	<u> </u>	All Fiber Sizes Waste	Drinking						
Check For Positive St	op – Clearly	Identify Homogenous Grou	Filter	Pore Size (Air Sa	amples): 0.8	μm 🔀 0.45μm			
Samplers Name: N.	Lasale	7. 0		Signature:	Andr Ca	hi Da			
Sample #		Sample Descripti			lume/Area (Air) HA # (Bulk)	Date/Time 8/3			
. 1	<u>-</u>	Room 4	011	1	260 Liters	1			
7	<u> </u>	Room 8				8:15 AM - 10:35 am			
2		77	<del></del>	——————————————————————————————————————	- Alas	10 IN JAM - 10 10 COM			
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<u> </u>	<u>.</u>	Blank		<u> </u>					
	<u></u>	<u>Blank</u>	<u> </u>						
Client Sample # (s):	·		4	Tota	l # of Samples:	4			
Relinquished (Client):	DC	Date	831	19	Time	: 1109 pm			
Received (Lab): K	Itonne	≥ ViacO Date	: 8-31-	19 19	1:13211 Time				
Comments/Special Instru	uctions:	<u> </u>		<u></u>		AUG A			
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		Page 1 of	pages						
		r age r or,	pages			<b>≓</b> ਨੂੰਨੋਂ			
Controlled Document - Asbestos COC - R10 - 05/09/2016						- : A			
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	. 6	XM 2:48	P.M.		•	- <u>,</u>			

1



### **APPENDIX C**

Lead Sample Results and Chain of Custody



528 Mineola Avenue, Carle Place, NY 11514

Phone/Fax: (516) 997-7251 / (516) 997-7528

http://www.EMSL.com carleplacelab@emsl.com

Phone: (212) 612-7900

EMSL Order:

CustomerID:

CustomerPO:

ProjectID:

061920395

2042892.057

LBAP78

Fax:

Received: 08/30/19 1:41 PM

Collected: 8/29/2019

Louis Berger U.S., Inc 96 Morton Street 8th floor New York, NY 10014

Mike Johnson

Project: Scarsdale School District, Greenacres Elementary, Project # 2042892.057

### Test Report: Lead in Dust by Flame AAS (SW 846 3051A/7000B)\*

Client Sample D	Description Lab ID Collected	Analyzed	Area Sampled	Lead <b>Concentration</b>
1F	061920395-0001 8/29/2019	8/31/2019	144 in²	7.8 µg/ft²
	Site: Room 4, Floor			
4U	061920395-0002 8/29/2019	8/31/2019	143 in²	<6.0 µg/ft²
	Site: Room 4, Univent			
4S	061920395-0003 8/29/2019	8/31/2019	101.25 in <sup>2</sup>	<8.5 μg/ft²
	Site: Room 4, Window Sill			
4W	061920395-0004 8/29/2019	8/31/2019	80 in <sup>2</sup>	<11 µg/ft²
	Site: Room 4, Window Well			
4H	061920395-0005 8/29/2019	8/31/2019	144 in²	13 μg/ft²
	Site: Hall @ 4, Floor			
5F	061920395-0006 8/29/2019	8/31/2019	144 in²	<6.0 µg/ft²
	Site: Room 5, Floor			
5U	061920395-0007 8/29/2019	8/31/2019	143 in²	<6.0 µg/ft²
	Site: Room 5, Univent			
5S	061920395-0008 8/29/2019	8/31/2019	101.25 in <sup>2</sup>	<8.5 μg/ft²
	Site: Room 5, Window Sill			
5W	061920395-0009 8/29/2019	8/31/2019	80 in <sup>2</sup>	<11 µg/ft²
	Site: Room 5, Window Well			
5H	061920395-0010 8/29/2019	8/31/2019	144 in²	<6.0 µg/ft²
	Site: Hall @ 5, Floor			
6F	061920395-0011 8/29/2019	8/31/2019	144 in²	<6.0 µg/ft²
	Site: Room 6, Floor			
6U	061920395-0012 8/29/2019	8/31/2019	143 in²	<6.0 µg/ft²
	Site: Room 6, Univent			
6S	061920395-0013 8/29/2019	8/31/2019	101.25 in <sup>2</sup>	<8.5 μg/ft²
	Site: Room 6, Window Sill			
6W	061920395-0014 8/29/2019	8/31/2019	80 in <sup>2</sup>	12 µg/ft²
	Site: Room 6, Window Well			
6H	061920395-0015 8/29/2019	8/31/2019	144 in²	<6.0 µg/ft²
	Site: Hall @ 6, Floor			

Alger Liang, Lead Laboratory Manager or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 6 ug/wipe. Ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in ug/ft2 which is dependent upon the area provided by non-lab pesonnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) result signifies the analyte was not detected at or above the warning limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

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Initial report from 08/31/2019 10:09:28



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(

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EMSL Order:

CustomerID:

CustomerPO:

ProjectID:

061920395

2042892.057

LBAP78

Phone: Fax:

Received: 08/30/19 1:41 PM

Collected: 8/29/2019

New York, NY 10014

96 Morton Street

Louis Berger U.S., Inc

Mike Johnson

8th floor

Project: Scarsdale School District, Greenacres Elementary, Project # 2042892.057

### Test Report: Lead in Dust by Flame AAS (SW 846 3051A/7000B)\*

Client Sample Description	ı Lab ID	Collected	Analyzed	Area Sampled	Lead <b>Concentration</b>
8F	061920395-001	16 8/29/2019	8/31/2019	144 in²	<6.0 µg/ft²
	Site: Room 8,	Floor			
8U	061920395-001	17 8/29/2019	8/31/2019	143 in²	<6.0 µg/ft²
	Site: Room 8,	Univent			
8S	061920395-001	18 8/29/2019	8/31/2019	105 in²	<8.2 μg/ft²
	Site: Room 8,	Window Sill			
8W	061920395-001	19 8/29/2019	8/31/2019	83 in²	<10 µg/ft²
	Site: Room 8,	Window Well			
8H	061920395-002	20 8/29/2019	8/31/2019	144 in²	<6.0 µg/ft²
	Site: Hall @ 8,	Floor			
7F	061920395-002	21 8/29/2019	8/31/2019	144 in²	<6.0 µg/ft²
	Site: Room 7,	Floor			
7U	061920395-002	22 8/29/2019	8/31/2019	143 in²	<6.0 µg/ft²
	Site: Room 7,	Univent			
7S	061920395-002	23 8/29/2019	8/31/2019	105 in²	<8.2 μg/ft²
	Site: Room 7,	Window Sill			
7W	061920395-002	24 8/29/2019	8/31/2019	166 in²	16 μg/ft²
	Site: Room 7,	Window Well			
7H	061920395-002	25 8/29/2019	8/31/2019	144 in²	39 μg/ft²
	Site: Hall @ 7,	Floor			
B3	061920395-002	26 8/29/2019	8/31/2019	N/A	<6.0 µg/wipe
	Site: Blank				
B4	061920395-002	27 8/29/2019	8/31/2019	N/A	<6.0 µg/wipe
	Site: Blank				

Alger Liang, Lead Laboratory Manager or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 6 ug/wipe. Ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in ug/ft2 which is dependent upon the area provided by non-lab pesonnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) result signifies the analyte was not detected at or above the warning limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

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Initial report from 08/31/2019 10:09:28



528 Mineola Avenue, Carle Place, NY 11514

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http://www.EMSL.com carleplacelab@emsl.com CustomerID: CustomerPO:

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061920380 LBAP78 2042892.057

ProjectID:

Michael J. Johnson Louis Berger U.S., Inc 96 Morton Street 8th floor New York, NY 10014

Phone: (212) 612-7900

Fax:

Received: 08/30/19 1:41 PM

Collected: 8/29/2019

Project: Scarsdale School District, Greenacres Elementary, Interior, Project #:2042892.057

### Test Report: Lead in Dust by Flame AAS (SW 846 3051A/7000B)\*

Client Sample Description	Lab ID Co	ollected <b>Analyzed</b>	Area Sampled	Lead <b>Concentration</b>
1	061920380-0001 8/	29/2019 8/30/2019	144 in²	7.6 µg/ft²
	Site: Floor 1, 13F, I	Floor		
2	061920380-0002 8/	29/2019 8/30/2019	144 in²	<6.0 µg/ft²
	Site: Floor 1, 13H,	Floor-Hall		
}	061920380-0003 8/	29/2019 8/30/2019	61.5 in²	<14 µg/ft²
	Site: Floor 1, 13W,	Well		
,	061920380-0004 8/	29/2019 8/30/2019	97.375 in²	<8.9 μg/ft²
	Site: Floor 1, 13S,	Sill		
j	061920380-0005 8/	29/2019 8/30/2019	144 in²	<6.0 µg/ft²
	Site: Floor 1, 13U,	Lead Vent		
3	061920380-0006 8/	29/2019 8/30/2019	144 in²	<6.0 µg/ft²
	Site: Floor 1, 12F, I	Floor		
•	061920380-0007 8/	29/2019 8/30/2019	N/A	7.3 µg/wipe
	Site: Floor 1, 12H,	Floor Hall		
	061920380-0008 8/	29/2019 8/30/2019	61.5 in²	23 μg/ft²
	Site: Floor 1, 12W,	Well		
	061920380-0009 8/	29/2019 8/30/2019	97.375 in²	<8.9 µg/ft²
	Site: Floor 1, 12S,S	Sill		
0	061920380-0010 8/	29/2019 8/30/2019	144 in²	<6.0 µg/ft²
	Site: Floor 1, 12U,	Univent		
1	061920380-0011 8/	29/2019 8/30/2019	144 in²	<6.0 µg/ft²
	Site: Floor 1, 10A-F	F, Floor		
2	061920380-0012 8/	29/2019 8/30/2019	144 in²	6.1 µg/ft²
	Site: Floor 1, 10A-H	l, Hall Floor		
3	061920380-0013 8/	29/2019 8/30/2019	97.3125 in <sup>2</sup>	<8.9 μg/ft²
	Site: Floor 1, 10A-V	V, Well		
4	061920380-0014 8/	29/2019 8/30/2019	173 in²	<5.0 μg/ft²
	Site: Floor 1, 10A-S	S, Sill		
5	061920380-0015 8/	29/2019 8/30/2019	144 in²	<6.0 µg/ft²
	Site: Floor 1, 10A-L	J, Univent		

Alger Liang, Lead Laboratory Manager or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 6 ug/wipe. Ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in ug/ft2 which is dependent upon the area provided by non-lab pesonnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "c" (less than) result signifies the analyte was not detected at or above the warning limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

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Initial report from 08/31/2019 09:58:00



528 Mineola Avenue, Carle Place, NY 11514

(516) 997-7251 / (516) 997-7528

http://www.EMSL.com carleplacelab@emsl.com CustomerPO: ProjectID:

LBAP78 2042892.057

061920380

EMSL Order:

CustomerID:

Michael J. Johnson Louis Berger U.S., Inc 96 Morton Street 8th floor New York, NY 10014

Phone: (212) 612-7900

Fax:

Received: 08/30/19 1:41 PM

Collected: 8/29/2019

Project: Scarsdale School District, Greenacres Elementary, Interior, Project #:2042892.057

### Test Report: Lead in Dust by Flame AAS (SW 846 3051A/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead <b>Concentration</b>
6	061920380-001	6 8/29/2019	8/30/2019	144 in²	<6.0 µg/ft²
	Site: Floor 1, 1	0F, Floor			
7	061920380-001	7 8/29/2019	8/30/2019	143 in²	<6.0 µg/ft²
	Site: Floor 1, R	oom 10, Univ	rent		
8	061920380-001	8 8/29/2019	8/30/2019	103.75 in <sup>2</sup>	<8.3 μg/ft²
	Site: Floor 1, R	oom 10, Wine	dow Sill		
9	061920380-001	9 8/29/2019	8/30/2019	82 in²	11 µg/ft²
	Site: Floor 1, R	oom 10, Wine	dow Well		
0	061920380-002	0 8/29/2019	8/30/2019	144 in²	<6.0 µg/ft²
	Site: Floor 1, 1	1F, Floor			
1	061920380-002	1 8/29/2019	8/31/2019	144 in²	<6.0 µg/ft²
	Site: Floor 1, 1	1H, Hall-Flooi	r		
2	061920380-002	2 8/29/2019	8/31/2019	143 in²	<6.0 µg/ft²
	Site: Floor 1. R	oom 11, Univ	rent		
3	061920380-002	3 8/29/2019	8/31/2019	101.25 in <sup>2</sup>	<8.5 μg/ft²
	Site: Floor 1, R	oom 11, Sill			
4	061920380-002	4 8/29/2019	8/31/2019	80 in²	13 µg/ft²
	Site: Floor 1, R	oom 11, Well			
5	061920380-002	5 8/29/2019	8/31/2019	144 in²	<6.0 µg/ft²
	Site: Floor 1, 9	F, Floor			
6	061920380-002	6 8/29/2019	8/31/2019	144 in²	<6.0 µg/ft²
	Site: Floor 1, 9	H, Hall-Floor			
7	061920380-002	7 8/29/2019	8/31/2019	143 in²	<6.0 µg/ft²
	Site: Floor 1, R	oom 9, Unive	nt		
3	061920380-002	8 8/29/2019	8/31/2019	105 in²	<8.2 μg/ft²
	Site: Floor 1, R	oom 9, Winde	ow Sill		
9	061920380-002	9 8/29/2019	8/31/2019	83 in²	<10 µg/ft²
	Site: Floor 1, R	oom 9, Winde	ow Well		
0	061920380-003	0 8/29/2019	8/31/2019	N/A	<6.0 μg/wipe
	Site: Floor 1, B	lank			

Alger Liang, Lead Laboratory Manager or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 6 ug/wipe. Ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in ug/ft2 which is dependent upon the area provided by non-lab pesonnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "c" (less than) result signifies the analyte was not detected at or above the warning limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

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Initial report from 08/31/2019 09:58:00



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(212) 612-7900

EMSL Order:

CustomerID:

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ProjectID:

061920380

2042892.057

LBAP78

Phone: Fax:

Received: 08/30/19 1:41 PM

Collected:

8/29/2019

New York, NY 10014

8th floor

96 Morton Street

Michael J. Johnson

Louis Berger U.S., Inc

Project: Scarsdale School District, Greenacres Elementary, Interior, Project #:2042892.057

### Test Report: Lead in Dust by Flame AAS (SW 846 3051A/7000B)\*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead <b>Concentration</b>
31	061920380-0031	8/29/2019	8/31/2019	N/A	<6.0 μg/wipe
	Site: Floor 1, Bla	ank			

Alger Liang, Lead Laboratory Manager or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 6 ug/wipe. Ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in ug/ft2 which is dependent upon the area provided by non-lab pesonnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "c" (less than) result signifies the analyte was not detected at or above the warning limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

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Initial report from 08/31/2019 09:58:00



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http://www.EMSL.com carleplacelab@emsl.com

Phone: (212) 612-7900

Fax:

Received: 08/31/19 1:10 PM

EMSL Order:

CustomerID:

CustomerPO:

ProjectID:

061920468

2042892.057

LBAP78

Collected: 8/30/2019

8th floor New York, NY 10014

96 Morton Street

Louis Berger U.S., Inc

Mike Johnson

Project: 2042892.057, Scarsdale School District, Greenacres Elementary, Interior

### Test Report: Lead in Dust by Flame AAS (SW 846 3051A/7000B)\*

Client Sample Description	Lab ID Collected	Analyzed	Area Sampled	Lead <b>Concentration</b>
4H-B	061920468-0001 8/30/2019	8/31/2019	144 in²	<6.0 µg/ft²
	Site: Room 4 - Hallway Desc: Floor			
7H-B	061920468-0002 8/30/2019	8/31/2019	144 in²	<6.0 μg/ft²
	Site: Room 7 - Hallway Desc: Floor			
	061920468-0003 8/30/2019	8/31/2019	N/A	<6.0 μg/wipe
	Site: Blank			
	061920468-0004 8/30/2019	8/31/2019	N/A	<6.0 μg/wipe
	Site: Blank			

Alger Liang, Lead Laboratory Manager or other approved signatory

\*Analysis following Lead in Dust by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 6 ug/wipe. Ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in ug/ft2 which is dependent upon the area provided by non-lab pesonnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) result signifies the analyte was not detected at or above the warning limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

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Initial report from 08/31/2019 14:45:17

# 1150

### LEAD PAINT SURVEY DATA SHEET/ CHAIN OF CUSTODY

PAGE  $\perp$  OF 4

PROJECT NO .: 2042892.057

**CLIENT: Scarsdale School District** 

**SITE**: Greenacres Elementary

Project Manager: M. Johnson

**LOCATION(S) SURVEYED**: Interior

PROPOSED PROJECT: N/A

DATE(S) OF INSPECTION: 8/29

LEVEL/ FLOOR	AREA LOCATION	<u>A</u> F	EA DESCRIPTION	SAMPLE NO.	TESTING COMBI STRUCTURE/ BUILDING COMPONENT	NATION SUBSTRATE	SURFACE MATERIAL	SIZE SAMP	LE	COLOR	QUANTITY SF or LF	RESULTS (mg/cm²) or (PPM)
ĺ	1. Interior 2. Exterior 3.	135	7		floor	2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4.	2.				
	1. Interior 2. Exterior 3.	13	H		Ploor-hall	77 Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4.	2.		'		
	1. Interior 2. Exterior 3.	131	رب		well	1. Vinyl Tile Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2. 1,5X	11" 1	ah		
	1. Interior 2. Extenor 3.	13	>		SII	1. Vinyl Tile 2 Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2. 2 <sup>3/3</sup> X	41"	tan	19 <u>A</u>	ENSL:
	1. Interior 2. Exterior 3.	13	ス 、		Ludvont	1. Vinyl Tile 2)Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2. <b>6</b> X 2	· ·	shife	AUG 30	ANALE PL
	Interior     Exterior     3.	125			floor	1 Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	2.	12 ins.			AOG.
	1. Interior 2. Exterior 3.	121	(		Door Hall	1. Vinyl Tite 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil	1. 12 ins. x 2.	12 ins.		14	Wile.
4	1. Interior 2. Exterior 3.	121	ک		Well -	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x	11   1	ran		
1_	CAL CONDITION ASS	ESSMENT			CHAIN OF CUSTO	OY Y			CERT NO	<u>.:</u>		
Fair - Les	intire surface is intact ss than or equal to 10 ore than 10 square fer		Type of Analysis: AAS Turnaround Time 6 hrs	,	DATE	<u>TIM</u> E	NAME: SIGNATURE					
A- ASSU	IMED (NOT SAMPLES	n	Refinquished by: W.Co-Se (pnnt) Received by: (print)	16	(Sign) WW	(n)	8'50'19	( CAMPM)	ADDRESS: 96 TASKS COMP	LETED:	Floor, New York, NY	
AAS-	AAS - ATOMIC ABSORPTION Relinquished by.				(Sign)		, ,	AMPM	2 Collect paint chip samples of suspect surfaces of building component			ullding components.
SPECTR	ROMETRY X RAY FLOUF		(print) Received by: (print)		(Sign)		1 1	AM/PM	6.Submit bulk samples for analysis by AAS			tified on the appropriate
FIELD	FIELD NOTES: Email all lab report to labresults@louisberger.com											

# 115)

### LEAD PAINT SURVEY DATA SHEET/ CHAIN OF CUSTODY

PAGE ZOF U

PROJECT NO.: 2042892.057

**CLIENT**: Scarsdale School District

**SITE:** Greenacres Elementary

Project Manager: M. Johnson

**LOCATION(S) SURVEYED**: Interior

**PROPOSED PROJECT: N/A** 

**DATE(S) OF INSPECTION: 8/29** 

<u> </u>			TA DECADINE				47.01	011754.05	0175		201.00	OHANTITY	
ELOOR	AREA LOCATION	Ah	EA DESCRIPTION	SAMPLE NO.	STRUCTUR	ESTING COMBIN E/ BUILDING ONENT	SUBSTRATE	SURFACE MATERIAL	SIZE SAMP	<u>CF</u>	COLOR	QUANTITY SF or LF	<u>RESULTS</u> (mg/cm²) or (PPM)
	1. Interior 2. Exterior 3.	129	, >		Sill		1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4.	1. 12 ins. x 2. 2 3/8	×41"]	tan		
	Interior     Exterior     3.	121	Λ		win	ent	Vinyl Tile     Metal     Concrete     4.	1. Paint 2. Dust 3. Soil 4.	1. 12 ins. x 2. 6 ×	24"	white		
	1. Interior 2. Exterior 3.	101	4-5		Floc		7) Vinyl Tite 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1.42 ins. x				
	Interior     Exterior     3.	104	- H(		Hall		① Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1 <u>(12 iris. x</u> 2.	12 ins.	tan		
	1, Interior 2. Exterior 3.	104	- W		well		1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2.1.5" x 2	1.	tan	61.	
	1. Interior 2. Exterior 3.	10A-	S		5111	_	Vinyl Tile     Metal     Concrete	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2. Z X 4	3,25°	tan	AUG 3,	ARLE
	1. Interior 2. Exterior 3.	104-	U		univent		1. Vinyl Tile 2. Metal 3. Concrete	1. Paint 2. Dust 3. Soil 4	1) 12 ins. x 2. 6 × 25	24"	White	) PH	30V76
	1. Interior 2. Exterior 3.	le	2 F .		2100		1) Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	7.) 12 ins. x 2.	12 ins.	white	1:41	AL-IN
	CAL CONDITION ASS				CHAIN	OF CUSTOD	<u>Y</u>			CERT.	NO.:		<u></u>
Intact - Entitie surface is intact Feur - Loss than or equal to 10 square feet Poor - More than 10 square feet.  Type of Analysis: AAS / XRF Turnaround Time 6 hrs 12 hrs 24 hrs 48 hrs 72				72 hrs 5 days		DATE	TIME	NAME: SIGNAT	URE:				
A- ASSUMED (NOT SAMPLED)  Redinquished by: (print)  Received by: (print)				(Sign)	<i>u</i>	8 12019	1-36AMEN AMPM	TELEPHONE NO.: (212) 612. ADDRESS: 96 Morton Street, 8 TASKS COMPLETED:		Floor, New York, NY			
AS - ATOMIC ABSORPTION Relinquished by: (pgnt)				(Sign)	1	1 1	AM/PM	A visual determination of accessible painted surfaces ar 2.Collect paint chip samples of suspect surfaces of bulldir 3.Quantify the amount of painted surfaces in their respect 6.Submit bulk samples for analysis by AAS			ullding components.		
Received by:  XRF - X RAY FLOURESCENT (print)					(Sign)		1 1	AM/PM	7.Sample I building f	locations and suspect floor plan diagram with of Custody record ac	materials were ident the sample number	(optional).	

# 115

### LEAD PAINT SURVEY DATA SHEET/ CHAIN OF CUSTODY

PAGE 3 OF 4

PROJECT\_NO.: 2042892.057

**CLIENT: Scarsdale School District** 

SITE: Greenacres Elementary

Project Manager: M. Johnson

**LOCATION(S) SURVEYED**: Interior

PROPOSED PROJECT : N/A

DATE(S) OF INSPECTION: 8/29

				<del></del>		<u>-</u>	<del></del>					
LEVEL/ FLOOR	AREA LOCATION	A	REA DESCRIPTION	SAMPLE NO.	TESTING COMI STRUCTURE/ BUILDING COMPONENT	SUBSTRATE	SURFACE MATERIAL	SIZE (		COLOR	QUANTITY SF or LF	RESULTS (mg/cm²) or (PPM)
	1. Interior 2. Exterior 3.	<u></u>	HNC, 10	104	univent	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4.		×26"	White		
	1. Interior 2. Exterior 3.	ı		105	window sill	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4.	1. 12 ins. x 2.2.511	(41.5"	tan		
A	1. Interior 2. Exterior 3.		1	100	window well	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2. Z <sup>1</sup> × l	<u>#1"  </u>	tan		
1	1. Interior 2. Exterior 3.	12-8			Floor	1 Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1.12 ins. x 2.		White		
	1. Interior 2. Exterior 3.	12-4	+		Hall-Floor	1. Vinyl Tile 2. Metal 3. Concrete 4. +Cro770	1, Paint 2. Dust 3. Soil 4	1. 12 ins. x		tan		
	1. Interior 2. Exterior 3.	Roa	m ]/	11-4	Univent	1. Vinyl Tile 2 Meta 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2.5.5"x	(26"	white	.00:	ARL 9 Aug
	1. Interior 2. Exterior 3.			115	Sill	1. Vinyl Tile 2 Meia 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2.2.5 X		tan	30 Pi	FRIA.
J	1. Interior 2. Exterior 3.	•	$\sqrt{}$	NW	Well	1. Vinyl Tile 2. Metal 3. Concrete 4.	1, Paint 2, Dust 3, Soil 4	1. 12 ins. x 2.21 × 4		tan	19:1	COAL.
	CAL CONDITION AS	SESSMENT			CHAIN OF CUSTO	)DY			CERT. N	10.:	_	
Initiat: Entire surface is infact Fair-Loss than or equal to 10 square feet Poor - More than 10 square feet. Turnaround Time 6 hrs 12 hrs 24 hrs 48 hrs 72				1 hrs 48 hrs 72 hrs 5 days	•	DATE	TIME	NAME: SIGNATU	IRE:	•	ر.	
				(Sign)		8 '30'19		TELEPHON	NE NO. : (212) 612.7	900		
A-ASSUMED (NOT SAMPLED)  (print)  Received by:				alt_	(Sign)	NEWY_	<del></del>	(:3GMICM)	ADDRESS: TASKS CO	96 Morton Street, 8 MPLETED;	Floor, New York, NY	
(print)  AAS - ATOMIC ABSORPTION Relinquished by:			(print)		(Sign)	<del></del>	<del>'-'-</del>	AM/PM	2.Collect pa	unt chip samples of s	ssible painted surfac suspect surfaces of b	uilding components.
XRF =	X RAY FLOUF		(print) Received by: (print)		(Sign)		1 1	AM/PM AM/PM	<ol> <li>Submit but</li> <li>Sample to building flo</li> </ol>	ilk samples for analy cations and suspect oor plan diagram will	materials were ident the sample number	· ified on the appropriate (optional).
8. A Chain of Custody record accompanied the samples to the laboratory  FIELD NOTES: Email all lab report to labresults@louisberger.com												

PAGE OF

PROJECT NO .: 2042892.057

**CLIENT: Scarsdale School District** 

**SITE:** Greenacres Elementary

LOCATION(S) SURVEYED: Interior

PROPOSED PROJECT: N/A

**DATE(S) OF INSPECTION: 8/29** 

<u>Proj</u>	ect Manag	<u>er</u> : M. J	ohnson 			Inspector(	<u>s)</u> : Mike John	son / Nic	k Casale			
TEVEL	AREA LOCATION	AF	EEA DESCRIPTION	SAMPLE NO.	TESTING COMBINED STRUCTURE/BUILDING COMPONENT	NATION SUBSTRATE	SURFACE MATERIAL	SIZE SAMP		LOR	QUANTITY SF or LF	RESULTS (mg/cm²) or (PPM)
	1 Interior 2. Exterior 3.	135	- r		floor	L. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dris 3. Soil 4.	2.				
	1 Interior 2. Exterior 3.	13	<u> </u>		Ploor-hall	77 Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. <u>Dús</u> 3. Soil 4.	2.	1			
	1 Lintend 2. Exterior 3.	130	رر		well	1. Vinyl Tile  Metal 3. Concrete 4.	1. Paint 2. <u>Dusi</u> 3. Soil 4	1. 12 ins. x 2. 1,5X	11" tou	^		E
	1 Interior 2. Exterior 3.	13	5		SII	1. Vinyl Tite  Metal 3. Concrete 4.	1, Paint 2 Doil 3. Soil 4	1. 12 ins. x 2. 2 <sup>3/3</sup> X	41" +0	in_	lo p	U15E CA
	1 triterio: 2. Exterior 3.	13	K		impront	1 Vinyl Tite (2)Metal 3, Concrete 4.	1. Paint 2. Dos 3. Soil 4	1. 12 ins. x 2. 6 × 2	4" W	1/2	#UG 30	ANAL RLE PL
	1 Interior 2. Exterior 3.	125			floor	1 Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. D⊎s 3. Soil 4	2.			PH	ACE,
	i interior 2. Exterior 3.	121	.\		floor Hall	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2 Dus 3. Soil 4	1. 12 ins. x	12 ins.		#	JAKI.
1	1 Interior 2. Exterior 3.	121	ل		Well	1. Vinyl Tite 2. Metal 3. Concrete 4.	1. Paint 2 Dust 3. Soil 4	1. 12 ins. x		.\\		
PHYSICAL CONDITION ASSESSMENT  Intact - Entire surface to 1s intact Fair - Less than or equal to 10 square feet.  Type of Analysis: AAS / XRF Turnaround Time Turnaround Time Turnaround Time Turnaround Time Turnaround Time						OY .	DATE	TIME	CERT. NO.: NAME: SIGNATURE:			
A-ASSUMED (NOT SAMPLED)  Reinquished by: 1. Cosele (print) Received by: 1. Wara Av				(Sign) (Sign)	EN .	8 30,19	L'HAMPM	TASKS COMPLETED:  1.A visual determination of acces		Floor, New York, NY ssible painted surfac	es and condition.	
SPECTROMETRY (pr		Relinquished by: (print) Received by: (print)		(Sign)		1 1	АМ/РМ АМ/РМ	6.Submit bulk samples for analysis by AAS			pective locations, ified on the appropria	
IELD	NOTES: Ema	ail all lab	report to labresults@l	ouisberge	r.com	920	320	)				

PAGE ZOF\_

Order ID:

061920380

PROJECT NO.: 2042892.057

**CLIENT: Scarsdale School District** 

**SITE:** Greenacres Elementary Project Manager: M. Johnson

LOCATION(S) SURVEYED: Interior

**PROPOSED PROJECT: N/A** 

**DATE(S) OF INSPECTION: 8/29** 

LEVEL/ FLOOR	AREA LOCATION	, <u>Al</u>	REA DESCRIPTION	SAMPLE NO.	TESTING COMBII		SURFACE MATERIAL	SIZE SAMP	OF LE	COLOR	QUANTITY SF or LF	RESULTS (mg/cm²)
70 -	(		•		COMPONENT	SUBSTRATE						or (PPM)
	1 Interes 2. Exterior 3.	12:	<u> </u>		Sill	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dus 3. Soil 4.	1. 12 ins. x 2. 2 3 /8		tan		
	1 Interior 2. Exterior 3.	12	N	:	univent	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dus 3. Soil 4.	1. 12 ins. x 2. 6 X	12 ins. 24"	white		
Page	1 Interior 2. Exterior 3.	101	4-5		21001	(i) Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dist 3. Soil 4	1.42 ins. x			9	
5 Of	1 Interior 2. Exterior 3.	104	- t(		Hall Floor	Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2 Dust 3. Soil 4	1 12 ins. x		tan		
7	1 interior 2. Exterior 3.	104	-ω		well	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2 Ora 3. Soil 4	1. 12 ins. x 2.しら"メレ	(325)	tan	19	0
L	1 interior 2. Exterior 3.	10A-	· S		511	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint PDus 3. Soil 4	1. 12 ins. x 2. Z K 4	3.25°	tan	AUG 31	ARL AND
	1 interior 2. Exterior 3.	104-	· U		1. Vinyl Tile 2. Metal 3. Concrete		1. Paint 2.005 3. Soil 4	1! 12 ins. x 12 ins. 2. 6 × 24 th		White	PH	30 V 7
	1. Interior 2. Exterior 3.	10	<b>γ</b> ξ	-	51005	1) Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint Dus 3. Soil 4	7 12 ins. x 2.	12 ins.	white	14:4	
	CAL CONDITION ASS	SESSMENT			CHAIN OF CUSTOD	<u>Y</u>			CERT.	NO.:		<u>,,                                    </u>
Fair - Le	Intact - Entire surface is Intact Fair - Less than or equal to 10 square feet Poor - More than 10 square feet.  Type of Analysis: **AAS / XRF Turnaround Time 6 hrs 12 hrs 24 hrs 48 hrs 72 hrs 5 days						DATE	TIME	NAME: SIGNAT	URE:		
A- ASSU	ASSUMED (NOT SAMPLED)  Relinquished by: No Cosa Q (Sign) Received by (print)  Received by (Sign)  (Sign)						8 130,19	1:36am@1 1:41am@n)	TELEPHONE No.: (212) 612 7900 ADDRESS: 96 Morton Street, 8 Floor, New York, NY 10014 TASKS COMPLETED: 1.A visual determination of accessible painted surfaces and condition.			
AAS SPECTE	AAS - ATOMIC ABSORPTION Relinquished by:  SPECTROMETRY (print)				(Sign)		1 1	AM/PM	2.Collect paint chip samples of suspect surfaces of building components.     3.Countify the amount of painted surfaces in their respective locations.     6.Submit bulk samples for analysis by AAS.			uilding components.
XRF	X RAY FLOUR		Received by: (print)		(Sign)		I L	АМ/РМ	7.Sample building	oulk samples for arialy locations and suspect floor plan diagram with of Custody reco <u>rd ac</u>	materials were ident the sample number	ified on the appropriate (optional). les to the laboratory
FIELD	FIELD NOTES: Email all lab report to labresults@louisberger.com											

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PAGE 3 OF 4

PROJECT NO.: 2042892.057

**CLIENT: Scarsdale School District** 

<u>SITE</u>: Greenacres Elementary <u>Project Manager</u>: M. Johnson LOCATION(S) SURVEYED: Interior

PROPOSED PROJECT: N/A

DATE(S) OF INSPECTION: 8/29

Inspector(s): Mike Johnson / Nick Casale

	LEVEL	AREA LOCATION	AREA DESCRIPTION	SAMPLE NO.	TESTING COMBII STRUCTURE/ BUILDING COMPONENT	NATION SUBSTRATE	SURFACE MATERIAL	SIZE SAMP	OF LE	COLOR	QUANTITY SF or LF	RESULTS (mg/cm²) or (PPM)
	1	1 Interior 2. Exterior 3.	10-H-N.C. 10	100	univent	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. <u>Dust</u> 3. Soil 4.	1. 12 ins. x 2. 5,5	×26"	white		
		1 Interior 2. Exterior 3.		105	window Sill	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. <u>D.S.</u> 3. Soil 4.	1. 12 ins. x 2.2.5 1	41.5"	tan		
Page	A	1. ក្រសាល 2. Exterior 3.	V	106	window well	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dús 3. Soil 4	1. 12 ins. x 2. Z <sup>11</sup> X	£1"	tan		
6 Of	ł	1 truerior 2. Exterior 3.	12-8		Floar	1 Vinyl Tile 2. Metal 3. Concrete 4.	1, Paint 2, Dan 3, Soil 4	1 12 ins. x		White		
7		1 Interior 2. Exterior 3.	It-H		Hall-Floor	1. Vinyl Tile 2. Metal 3. Concrete 4. Tevanto	1. Paint D. Dosi 3. Soil 4	1. 12 ins. x 2.		tan		
		1 interior 2. Exterior 3.	Roam II	11-4	Univent	1. Viny Tile 2 Meta 3. Concrete 4.	1. Paint 2. Dus 3. Soil 4	1. 12 ins. x 2.5.5 <sup>1</sup> / <sub>2</sub>	(26"	white	30.	AARI AARI
		1. Interior 2. Exterior 3.		115	5,11	1. Vinyl Tile 2 Metal 3. Concrete 4.	1: Paint 2 Dos 3: Soil 4	1. 12 ins. x 2.2.5 X	405"	tan	30 PH	EALLY CPLA
		t Interior 2. Exterior 3.	<b>→</b>	11/4	Well	1. Vinyl Tile 2 Meta 3. Concrete 4.	1. Paint 2. Dus 3. Soil 4	1. 12 ins. x 2.211×1		tan	1:41	SCAL.
L		CAL CONDITION AS			CHAIN OF CUSTOD	<u>Y</u>			CERT.	NO.:		
	Fair - Los	ntire surface is intact se ihan or equal to 10 ore than 10 square fe	square feet Type Of Atlanysis.	3 / XRF 3 12 hrs 2	4 hrs 48 hrs 72 hrs 5 days		DATE	TIME	NAME: SIGNAT	URE:	•	
L		MED (NOT SAMPLE	Received by: WAYUA-	BAR	(Sign) (Sign)	2 Cut	8 3019	(:3GAMEM) [:44AMEM)	ADDRESS TASKS CO 1.A visual	NE NO.: (212) 612.79 96 Morton Street, 8 OMPLETED; determination of acce	Floor, New York, NY ssible painted surfac	es and condition.
	AAS – ATOMIC ABSORPTION  SPECTROMETRY  XRF – X RAY FLOURESCENT		(print) Received by:	(Sign) (Sign)				AM/PM AM/PM	Collect paint chip samples of suspect surfaces of building components.     Quantify the amount of painted surfaces in their respective locations.     Submit bulk samples for analysis by AAS     T.Sample locations and suspect materials were identified on the appropria			uilding components. spective locations. Ified on the appropriate
-	building floor plan diagram with the sample number (optional).  8. A Chain of Custody record accompanied the samples to the laboratory  FIELD NOTES: Email all lab report to labresults@louisberger.com											

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# LEAD PAINT SURVEY DATA SHEET/ CHAIN OF CUSTODY

PAGE 4 OF 4

PROJECT NO.: 2042892.057

**CLIENT: Scarsdale School District** 

<u>SITE</u>: Greenacres Elementary Project Manager: M. Johnson **LOCATION(S) SURVEYED: Interior** 

PROPOSED PROJECT: N/A

DATE(S) OF INSPECTION: 8/29

LEVEL/ FLOOR	AREA LOCATION		DESCRIPTION	SAMPLE NO.	TESTING COMBINING STRUCTURE/ BUILDING COMPONENT	SUBSTRATE	SURFACE MATERIAL	SIZE OF SAMPLE	COLOR	QUANTITY SF or LF	RESULTS (mg/cm²) or (PPM)
1	1 Exterior 2. Exterior 3.	98			Floor	1. Vnvl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dos 3. Soil 4.	12 ins. x 12 ins. 2.	white		
	1 Interior 2. Exterior 3.	94			Hall-Floor	1. Vinyl Tile 2. Metal 3. Concrete 4. Torrowy 0	1. Paint 2. Dus 3. Soil 4.	12 ins. x 12 ins. 2.	tan		
	1 lotenor 2. Exterior 3.	Room	9	94	univent	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. [35] 3. Soil 4	1. 12 ins. x 12 ins. 2.5,5 1 x 26	white		
7 0 =	1 total 2. Exterior 3.			99	Window sill	1. Vinyl Tile 2. Mela 3. Concrete 4.	1. Paint 2 Dos 3. Soil 4	1. 12 ins. x 12 ins. 2.2.5" x 47"	tan	-19	<u> </u>
7	1 Exterior 3.	1		9W	window well	1. Vinyl Tile 2. Metar 3. Concrete 4.	1. Paint P. Düst 3. Soil 4	1. 12 ins. x 12 ins. 2. 2"x 4,5"	tan	AUG	isi Ail
	1. Interior 2. Exterior 3.	88	N.C. Blank	B1		1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint P. Dus 3. Soil 4	1. 12 ins. x 12 ins. 2.		30 PM	DEST
	2. Exterior 3.	84	- N. C. Blan	K BL		1. Vinyl Tile 2. Metal 3. Concrete 4	1. Paint 2. Des 3. Soil 4	1. 12 ins. x 12 ins. 2.		1: 1: N	
. 1	2. Exterior 3.			_		Vinyl Tile     Metal     Goncrete     4.	1. Paint 2 Bust 3. Soil 4	1. 12 ins, x 12 ins. 2.		<u>.</u>	
PHY	ICAL CONDITION AS	SSESSMENT	<b>3</b> 85		CHAIN OF CUSTOD	<u>Y</u>		CERT.	NO.:		
Fair-L	Entire surface is intact ess than or equal to 10 More than 10 square fo	oet. Turi	e of Analysis: AAS naround Time 6hrs	/ XRF 12 hrs 24	hrs 48 hrs 72 hrs 5 days		DATE	TIME NAME:		000	
A- ASS	SUMED (NOT SAMPLE	(nrint	ived by: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ale Mu	(Sign) July	, Cryx	8 3019	ADDRES:  1:4 AMPM ADDRES:  1.A visual	ONE NO.: (212) 612.7 S: 96 Morton Street, 8 OMPLETED; determination of acce	Floor, New York, NY ssible painted surface	es and condition.
AAS-	ATOMIC ABS		quished by:		(Sign)	<del></del>		AM/PM 3.Quantify	paint chip samples of so the amount of painted	suspect surfaces of bid surfaces in their res	uilding components.
SPECT	ROMETRY X RAY FLOU	Rece	ived by:		(Sign)		1 1	6 Submit 7.Sample building	bulk samples for analy	sis by AAS materials were ident h the sample number	ified on the appropriate (optional).
FIEL	NOTES: Em	ail all lab rep	ort to labresults@l	ouisberger	06	1920	380	<u> </u>			
				-		<del>+                                    </del>	A	b-der	~ E	131119	7

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### LEAD PAINT SURVEY DATA SHEET/ CHAIN OF CUSTODY

PAGE  $\perp$  OF 4

PROJECT NO .: 2042892.057

**CLIENT: Scarsdale School District** 

**SITE**: Greenacres Elementary

Project Manager: M. Johnson

**LOCATION(S) SURVEYED**: Interior

PROPOSED PROJECT: N/A

DATE(S) OF INSPECTION: 8/29

LEVEL/ FLOOR	AREA LOCATION	<u> A</u> F	EA DESCRIPTION	SAMPLE NO.	TESTING COMBI STRUCTURE/ BUILDING COMPONENT	NATION SUBSTRATE	SURFACE MATERIAL	SIZE SAMP	LE	COLOR	QUANTITY SF or LF	RESULTS (mg/cm²) or (PPM)
ĺ	1. Interior 2. Exterior 3.	134	7		floor	2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4.	2.				
	1. Interior 2. Exterior 3.	13	H		Ploor-hall	77 Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4.	2.				
	1. Interior 2. Exterior 3.	131	رب		well	1. Vinyl Tile Metal 3. Concrete 4.	1, Paint 2. Dust 3. Soil 4	1. 12 ins. x 2. 1,5X	11/1 /	7h		
	1. Interior 2. Extenor 3.	13	>		SII	1. Vinyl Tile 2 Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2. 2 <sup>3/3</sup> X	41"	an	¥ 61	CA: CA:
	1. Interior 2. Exterior 3.	Exterior \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\				1. Vinyl Tile 2)Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2. <b>6</b> X 2		hite	AUG 30	ANAC RLE PL
	Interior     Exterior     3.	125			floor	1 Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	2.	12 ins.		PH I	
	1. Interior 2. Exterior 3.	121			Door Hall	1. Vinyl Tite 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil	1. 12 ins. x 2.	12 ins.		-	- JHC
<b>4</b>	1. Interior 2. Exterior 3.	126	ک		Well -	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x	11   1	an_		
L	AL CONDITION ASS	ESSMENT			CHAIN OF CUSTO	OY Y			CERT. NO.:	<u></u>		
Fair - Les	rtire surface is intact ss than or equal to 10 ore than 10 square fee		Type of Analysis: AAS Turnaround Time 6 hrs	,	DATE	TIME	NAME: SIGNATURE:					
A- ASSU	MED (NOT SAMPLES	D)	Relinquished by: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	16	(Sign)	(Sign) My (M			TELEPHONE NO.: (212) 612.7900 ADDRESS: 96 Morton Street, 8 Floor, New York, NY 10014 TASKS COMPLETED: 1,4 visual determination of accessible painted surfaces and			
AAS-	ATOMIC ABSO	ORPTION	(print) Relinquished by. (print)		(Sign)	<del></del>	1 1	AMPM	2 Collect paint cl	hip samples of s	suspect surfaces of t d surfaces in their re	uilding components.
SPECTR	OMETRY X RAY FLOUR		Received by: (print)		(Sign)	i. !	1 1	AM/PM	<ol> <li>Submit bulk sa</li> <li>Sample location</li> <li>building floor p</li> </ol>	amples for analy ons and suspect lan diagram with	rsis by AAS I materials were iden In the sample number	tified on the appropriate
FIELD	NOTES: Ema	il all lab	report to labresults@le	ouisberger	r.com	J						

# 115)

### LEAD PAINT SURVEY DATA SHEET/ CHAIN OF CUSTODY

PAGE ZOF U

PROJECT NO.: 2042892.057

**CLIENT**: Scarsdale School District

**SITE:** Greenacres Elementary

Project Manager: M. Johnson

**LOCATION(S) SURVEYED**: Interior

**PROPOSED PROJECT: N/A** 

**DATE(S) OF INSPECTION: 8/29** 

<u> </u>		4000						011754.05	0175		001.05	OHANTITY	
LEVEL/	AREA LOCATION	AKEA	DESCRIPTION	NO.	STRUCTUR	ESTING COMBINA E/ BUILDING ONENT	SUBSTRATE	SURFACE MATERIAL	SIZE SAMP	<u>Ur</u> LE	COLOR	QUANTITY SF or LF	RESULTS (mg/cm²) or (PPM)
	1. Interior 2. Exterior 3.	125			Sill		1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4.	1. 12 ins. x 2. Z 3/8	×41"	tan		
	Interior     Exterior     3.	12 M			unive	ent	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4.	1. 12 ins. x 2. 6 ×	24"	white		
	1. Interior 2. Exterior 3.	10A-	£		£100	×	5)) Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1.42 ins. x	<u> </u>			
	1. Interior 2. Exterior 3.		i – F(		Hall		① Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1 <u>12 iris. x</u> 2.	12 ins.	tan		
			<i>&gt;</i>	well		2. Metal 3. Conci 4.	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2. 1. 5 " x 2	1.	tan	61	
	1. Interior 2. Exterior 3.	10A- S	>		511		Vinyl Tite     Metal     Concrete     4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2. Z K 4	3,25°	tan	AUG 3 <sub>l</sub>	L AND ARLE
	1. Interior 2. Exterior 3.	10A-L	1	Univer		*	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	19 12 ins. x 2. 6 × 25	A. W.	White	) PH	30V76
	1. Interior 2. Exterior 3.	10			5100		1) Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	7.) 12 ins. x 2.	12 ins.	white	1:41	ALLIN
	CAL CONDITION ASS	ESSMENT			CHAIN	OF CUSTODY	<u> </u>			CERT.	NO.:		<u></u>
Intact - Entire surface is intact Four - Less than or equal to 10 square feet Poor - More than 10 square feet.  Type of Analysis: AAS / XRF Turnaround Time 6 hrs 12 hrs 24 hrs 48 hi					hrs 48 hrs 7	72 hrs 5 days	٠.	DATE	TIME	NAME: SIGNAT			
Relinquished by: \(\sigma_c \colon \sigma_c \c					(Sign)	W	8 12019	1-36AMEN AMPM	TASKS COMPLETED:		Floor, New York, NY		
AAS -	S – ATOMIC ABSORPTION Relinquished by:  (pnnt)  (pnnt)					(Sign)		1 1	<b>АМ/РМ</b>	2.Collect paint chip samples of suspect surfaces of building componing 3.Quantify the amount of painted surfaces in their respective location.			ullding components.
Received by: (print)  Received by: (print)  Received by: (print)						(Sign)		1 1	AM/PM	7.Sample l building t	oulk samples for analy locations and suspect floor plan diagram with of Custody record ac	materials were ident the sample number	

# 115

### LEAD PAINT SURVEY DATA SHEET/ CHAIN OF CUSTODY

PAGE 3 OF 4

PROJECT\_NO.: 2042892.057

**CLIENT: Scarsdale School District** 

SITE: Greenacres Elementary

Project Manager: M. Johnson

**LOCATION(S) SURVEYED**: Interior

PROPOSED PROJECT : N/A

DATE(S) OF INSPECTION: 8/29

FLOOR	AREA LOCATION	Al	REA DESCRIPTION	SAMPLE NO.	TESTING COMBI STRUCTURE/ BUILDING COMPONENT	NATION SUBSTRATE	SURFACE MATERIAL	SIZE (		COLOR	QUANTITY SF or LF	RESULTS (mg/cm²) or (PPM)
	1. Interior 2. Exterior 3.	<u> </u>	HNC, 10	104	univent	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4.		×26"	white		
	1. Interior 2. Exterior 3.	ı		105	window sill	1. Vinyl Tile 2. Vieta 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4.	1. 12 ins. x 2.2.51	(41.5"	tan		
A	1. Interior 2. Exterior 3.		1	100	window well	1. Vinyl Tite 2. Metato 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2. Z <sup>l</sup> X	41"	tan		
1	1. Interior 2. Exterior 3.	12-8	- -		Floor	1 Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1.12 ins. x 2.		White		
	1. Interior 2. Exterior 3.	12-4	+		Hall-Floor	1. Vinyl Tile 2. Metal 3. Concrete 4. +2.0.7.70	1, Paint 2. Dust 3. Soil 4	1, 12 ins, x 2.		tan		
	1. Interior 2. Exterior 3.	Roa	M )/	11-4	Univent	1. View Tile 2 Meta 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2.5.5%	(26"	white	.00:	ARI PARI
	1. Interior 2. Exterior 3.			115	5'.11	1. Vinyl Tile 2 Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2.2.5 X	40.5"	tan	30 P#	EPLA
J	1. Interior 2. Exterior 3.		$\downarrow$	IW	Well	1. Vinyl Tile 2 Metat 3. Concrete 4.	1, Paint 2. Dust 3. Soil 4	1. 12 ins. x 2.21 × 1		tan	1:41	ica CAL
	CAL CONDITION AS	SESSMENT			CHAIN OF CUSTO	YC			CERT. I	NO. <u>:</u>	_	<u> </u>
Fair - Lo	Entire surface is intact iss than or equal to 10 fore than 10 square fe		Type of Analysis: AAS I Turnaround Time 6 hrs		4 hrs 48 hrs 72 hrs 5 days		DATE	TIME	NAME: SIGNATI	JRE:	•	٠ .
. 20, 11			Relinquished by:	10	(Sign)		8 3019	(:3CAMEM)	TELEPHO	NÉ NO. : (212) 612.7	900	
A- ASSI	JMED (NOT SAMPLE)	D)	(print) #V:	alc_	(Sign)	v cmr_		AMPM	TASKS CO	: 96 Morton Street, 8 MPLETED;		
AAS -	ATOMIC ABS	ORPTION	(print) Relinquished by:	orint) (Sign)			1 1	<del> </del>	2.Collect pa	determination of acce aint chip samples of s the amount of painter	suspect surfaces of b	uilding components.
XRF =	X RAY FLOUF		(print) Received by: (print)		(Sign)		1 1	AM/PM	6.Submit by 7.Sample to building fl	ulk samples for analy ocations and suspect loor plan diagram with	sis by AAS materials were ident the sample number	· ified on the appropriate
FIELD	NOTES: Ema	iil all lab	report to labresults@le	ouisberge	r.com							

PAGE OF

PROJECT NO .: 2042892.057

**CLIENT: Scarsdale School District** 

**SITE:** Greenacres Elementary

LOCATION(S) SURVEYED: Interior

PROPOSED PROJECT: N/A

**DATE(S) OF INSPECTION: 8/29** 

<u>Proj</u>	ect Manag	<u>er</u> : M. J	ohnson			Inspector(	<u>s)</u> : Mike John	son / Nic	k Casale		<u> </u>	
TEVEL	AREA LOCATION	<u> AF</u>	REA DESCRIPTION	SAMPLE NO.	TESTING COMBINED STRUCTURE/BUILDING COMPONENT	NATION SUBSTRATE	SURFACE MATERIAL	SIZE SAMP		COLOR	QUANTITY SF or LF	RESULTS (mg/cm²) or (PPM)
	1 Interior 2. Exterior 3.	135	~		floor	L. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dris 3. Soil 4.	2.				1
	1 Interior 2. Exterior 3.	13	———— H		Ploor-hell	77 Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. <u>Dús</u> 3. Soil 4.	2.				
	1 Liftence 2. Exterior 3.	130	ر-		well	1. Vinyl Tile  Metal 3. Concrete 4.	1. Paint 2. <u>Dusi</u> 3. Soil 4	1. 12 ins. x 2. 1,5X	ul" to	'n		
	1 Interior 2. Exterior 3.	13	5		511	1. Vinyl Tite  Metal 3. Concrete 4.	1, Paint 2 Doil 3. Soil 4	1. 12 ins. x 2. 2 <sup>3/3</sup> X	41" +	<del>α</del> η_	lq #	UISE CA
	1 triterio 2. Exterior 3.	13	U		impront	1 Vinyl Tite (2)Metal 3, Concrete 4.	1. Paint 2. Dos 3. Soil 4	1. 12 ins. x 2. 6 × 2	4" W	hite	AUG 30	ANAL RLE PL
	1 Interior 2. Exterior 3.	125			floor	1 Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. D⊎s 3. Soil 4	2.			PH I	ACE.
	1 Interior 2. Exterior 3.	121	1		floor Hall	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2 Dus 3. Soil 4	1. 12 ins. x	12 ins.		: 47	JAIC.
1	1 Interior 2. Exterior 3.	121	S	:	Well	1. Vinyl Tite 2. Metal 3. Concrete 4.	1. Paint 2 Dust 3. Soil 4	1. 12 ins. x	H   L	an_		
Intact - E Fair - Le	CAL CONDITION AS: ntire surface is intact as than or equal to 10 fore than 10 square fe	emisto fool		/ XRF 12 hrs 24	CHAIN OF CUSTOD 4 hrs 48 hrs 72 hrs 5 days	OY .	DATE	TIME	CERT. NO.: NAME: SIGNATURE:			
A-ASSUMED (NOT SAMPLED)  Relinquished by: N. Cose (Sign (print)  Received by: Watta Avceo (Sign						EN .	8 30,19	L'HAMPM	TELEPHONE NO.: (212) 612.7900 ADDRESS: 96 Morton Street, 8 Floor, New York, NY 10014 TASKS COMPLETED: 1.A visual determination of accessible painted surfaces and condition 2.Collect paint chip samples of suspect surfaces of building compon			es and condition.
AAS - SPECTF XRF -	ATOMIC ABS ROMETRY X RAY FLOUI		Reinquished by: (print) Received by: (print)		(Sign)	- <del>-</del>	1 1	АМ/РМ АМ/РМ	Quantify the an     Submit bulk sa     Sample location     building floor pl	nount of painted mples for analythins and suspect lan diagram with	l surfaces in their res sis by AAS materials were ident the sample number	pective locations.
JELD	NOTES: Ema	il all lab	report to labresults@l	ouisberge	r.com	920	320	<b>)</b>				

PAGE ZOF\_

Order ID:

061920380

PROJECT NO.: 2042892.057

**CLIENT: Scarsdale School District** 

**SITE:** Greenacres Elementary Project Manager: M. Johnson

LOCATION(S) SURVEYED: Interior

**PROPOSED PROJECT: N/A** 

**DATE(S) OF INSPECTION: 8/29** 

LEVEL/ FLOOR	AREA LOCATION	, <u>Al</u>	REA DESCRIPTION	SAMPLE NO.	TESTING COMBINED STRUCTURE/ BUILDING		SURFACE MATERIAL	SIZE SAMP	OF LE	COLOR	QUANTITY SF or LF	RESULTS (mg/cm²)
70	ļ [		•		COMPONENT	SUBSTRATE						or (PPM)
	1 Interior 2. Exterior 3.	12:	<u> </u>		Sill	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dus 3. Soil 4.	1. 12 ins. x 2. 2 3 /8		tan		
	1.linterior 2. Exterior 3.	12	N.		univent	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dus 3. Soil 4.	1. 12 ins. x 2. 6 X	12 ins. 24"	white		
Page	1 Interior 2. Exterior 3.	101	4-5		21001	(i) Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Disi 3. Soil 4	1.42 ins. x			9	
5 Of	1 Interior 2. Exterior 3.	104	- t(		Hall Floor	Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint Dust 3. Soil 4	1 12 ins. x		tan		
7	1 interior 2. Exterior 3.	104	-ω		well	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2 Ora 3. Soil 4	1. 12 ins. x 2.しら"メレ	(325)	tan	19	000
L	1 Interior 2. Exterior 3.	10A-	· S		511	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint PDus 3. Soil 4	1. 12 ins. x 2. Z K 4	3.25°	tan	AUG 31	ARL AND
	1 taterior 2. Exterior 3.	104-	· U		Univent	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2.005 3. Soil 4	1: 12 ins. x 2. 6 × 24		White	) PH	30 V 7
	t interior 2. Exterior 3.	10	<b>γ</b> ξ	-	51005	1) Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint Dus 3. Soil 4	7 12 ins. x 2.	12 ins.	white	14:4	
	CAL CONDITION ASS	SESSMENT			CHAIN OF CUSTOD	<u>Y</u>			CERT.	NO.:	_	<u>,,                                    </u>
Fair - Le	Entiro surface is Intact es than or equal to 10 fore than 10 equare for	square feet et.	Type of Analysis: (*AAS) Turnaround Time	XRF 12 hrs 24	hrs 48 hrs 72 hrs 5 days	·	DATE	TIME	NAME: SIGNAT	URE:		
A- ASSU	A-ASSUMED (NOT SAMPLED)  Received by.  Received by.  Received by.		(print) 100 COSAL	e HILLED	(Sign)		8 130,19	1:36AMEN 1:41AMEN			Floor, New York, NY	
AAS - SPECTE	AS - ATOMIC ABSORPTION SPECTROMETRY		Relinquished by: (print)		(Sign)		1 1	AM/PM	2.Collect paint chip samples of suspect surfaces of building compone     3.Quantify the amount of painted surfaces in their respective location     6.Submit bulk samples for analysis by AAS			uilding components.
XRF -	X RAY FLOUF	RESCENT	Received by: (print)		(Sign)		I L	АМ/РМ	7.Sample building	locations and suspect floor plan diagram with of Custody record ac	materials were ident the sample number	ified on the appropriate (optional). les to the laboratory
FIELD	NOTES: Ema	il all lab	report to labresults@le	ouisberger	.com	1000	200				<u></u>	

11		)
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PAGE 3 OF 4

PROJECT NO.: 2042892.057

**CLIENT: Scarsdale School District** 

<u>SITE</u>: Greenacres Elementary <u>Project Manager</u>: M. Johnson LOCATION(S) SURVEYED: Interior

PROPOSED PROJECT: N/A

DATE(S) OF INSPECTION: 8/29

Inspector(s): Mike Johnson / Nick Casale

	LEVEL	AREA LOCATION	AREA DESCRIPTION	SAMPLE NO.	TESTING COMBII STRUCTURE/ BUILDING COMPONENT	NATION SUBSTRATE	SURFACE MATERIAL	SIZE SAMP	OF LE	COLOR	QUANTITY SF or LF	RESULTS (mg/cm²) or (PPM)
	1	1 Interior 2. Exterior 3.	10 H N.C. 10	100	univent	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. <u>Dust</u> 3. Soil 4.	1. 12 ins. x 2. 5,5	×26"	white		
		1 Interior 2. Exterior 3.		105	window Sill	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. <u>D.S.</u> 3. Soil 4.	1. 12 ins. x 2.2.5 1	41.5"	tan		
Page	V	1. ក្រសាល 2. Exterior 3.	V	10W	window well	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dús 3. Soil 4	1. 12 ins. x 2. Z <sup>11</sup> X	£1"	tan		
6 Of	ł	1 truerior 2. Exterior 3.	12-8		Floar	1 Vinyl Tile 2. Metal 3. Concrete 4.	1, Paint 2, Dan 3, Soil 4	1 12 ins. x		White		
7		1 Interior 2. Exterior 3.	It-H		Hall-Floor	1. Vinyl Tile 2. Metal 3. Concrete 4. Tevanto	1. Paint D. Dosi 3. Soil 4	1. 12 ins. x 2.		tan		
		1 interior 2. Exterior 3.	Roam II	11-4	Univent	1. Viny Tile 2 Meta 3. Concrete 4.	1. Paint 2. Dus 3. Soil 4	1. 12 ins. x 2.5.5 <sup>1</sup> / <sub>2</sub>	(26"	white	30.	AARI AARI
		1. Interior 2. Exterior 3.		115	5,11	1. Vinyl Tile 2 Metal 3. Concrete 4.	1: Paint 2 Dos 3: Soil 4	1. 12 ins. x 2.2.5 X	405"	tan	30 PH	EALLY CPLA
		t Interior 2. Exterior 3.	<b>→</b>	11/4	Well	1. Vinyl Tile 2 Meta 3. Concrete 4.	1. Paint 2. Dus 3. Soil 4	1. 12 ins. x 2.211×1		tan	1:41	SCAL.
L		CAL CONDITION AS			CHAIN OF CUSTOD	<u>Y</u>			CERT.	NO.:		
	Fair - Los	ntire surface is intact se ihan or equal to 10 ore than 10 square fe	square feet Type Of Allarysis.	3 / XRF 3 12 hrs 2	4 hrs 48 hrs 72 hrs 5 days		DATE	TIME	NAME: SIGNAT	URE:	•	
L	A-ASSUMED (NOT SAMPLED)  Received by: Natural Recei		BAR	(Sign) (Sign)	2 Cut	8 3019	(:3GAMEM) [:44AMEM)				es and condition.	
	AAS - ATOMIC ABSORPTION Relinquished by: (print)  Received by: (print)  Received by: (print)		(print) Received by:		(Sign) <b>(</b>			AM/PM AM/PM	2.Collect p 3.Quantify 6.Submit b 7.Sample I	aint chip samples of s the amount of painted ulk samples for analy	uspect surfaces of b I surfaces in their res sis by AAS materials were ident	uilding components. spective locations. Ified on the appropriate
-	FIELD	NOTES: Ema	ail all lab report to labresults@	louisberge	r.com	6192	039	30	8. A Chain	of Custody record ac	companied the samp	les to the laboratory

# WSD

# LEAD PAINT SURVEY DATA SHEET/ CHAIN OF CUSTODY

PAGE 4 OF 4

PROJECT NO.: 2042892.057

**CLIENT: Scarsdale School District** 

<u>SITE</u>: Greenacres Elementary Project Manager: M. Johnson **LOCATION(S) SURVEYED: Interior** 

PROPOSED PROJECT: N/A

DATE(S) OF INSPECTION: 8/29

LEVEL/ FLOOR	AREA LOCATION		DESCRIPTION	SAMPLE NO.	TESTING COMBINING STRUCTURE/ BUILDING COMPONENT	SUBSTRATE	SURFACE MATERIAL	SIZE OF SAMPLE	COLOR	QUANTITY SF or LF	RESULTS (mg/cm²) or (PPM)
1	1 Exterior 2. Exterior 3.	98			Floor	1. Vnvl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dos 3. Soil 4.	12 ins. x 12 ins. 2.	white		
	1 Interior 2. Exterior 3.	94			Hall-Floor	1. Vinyl Tile 2. Metal 3. Concrete 4. Torrowy 0	1. Paint 2. Dus 3. Soil 4.	12 ins. x 12 ins. 2.	tan		
	1 lotenor 2. Exterior 3.	Room	9	94	univent	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. [35] 3. Soil 4	1. 12 ins. x 12 ins. 2.5,5 1 x 26	white		
7 0 =	1 total 2. Exterior 3.			99	Window sill	1. Vinyl Tile 2. Mela 3. Concrete 4.	1. Paint 2 Dos 3. Soil 4	1. 12 ins. x 12 ins. 2.2.5" x 47"	tan	-19	<u> </u>
7	1 Exterior 3.	1		9W	window well	1. Vinyl Tile 2. Metar 3. Concrete 4.	1. Paint P. Düst 3. Soil 4	1. 12 ins. x 12 ins. 2. 2"x 4,5"	tan	AUG	isi Ail
	1. Interior 2. Exterior 3.	88	N.C. Blank	B1		1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint P. Dus 3. Soil 4	1. 12 ins. x 12 ins. 2.		30 PM	DEST
	2. Exterior 3.	84	- N. C. Blan	K BL		1. Vinyl Tile 2. Metal 3. Concrete 4	1. Paint 2. Des 3. Soil 4	1. 12 ins. x 12 ins. 2.		1: 1: N	
. 1	2. Exterior 3.			_		Vinyl Tile     Metal     Goncrete     4.	1. Paint 2 Bust 3. Soil 4	1. 12 ins, x 12 ins. 2.		<u>.</u>	
PHY	ICAL CONDITION AS	SSESSMENT	<b>3</b> 85		CHAIN OF CUSTOD	<u>Y</u>		CERT.	NO.:		
Fair-L	Entire surface is intact ess than or equal to 10 More than 10 square fo	oet. Turi	e of Analysis: AAS naround Time 6hrs	/ XRF 12 hrs 24	hrs 48 hrs 72 hrs 5 days		DATE	TIME NAME:		000	
A- ASS	SUMED (NOT SAMPLE	(nrint	ived by: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ale Mu	(Sign) July	, Cryx	8 3019	ADDRES:  1:4 AMPM ADDRES:  1.A visual	ONE NO.: (212) 612.7 S: 96 Morton Street, 8 OMPLETED; determination of acce	Floor, New York, NY ssible painted surface	es and condition.
AAS-	ATOMIC ABS		quished by:		(Sign)	<del></del>		AM/PM 3.Quantify	paint chip samples of so the amount of painted	suspect surfaces of bid surfaces in their res	uilding components.
SPECT	ROMETRY X RAY FLOU	Rece	ived by:		(Sign)		1 1	6 Submit 7.Sample building	bulk samples for analy	sis by AAS materials were ident h the sample number	ified on the appropriate (optional).
FIEL	NOTES: Em	ail all lab rep	ort to labresults@l	ouisberger	06	1920	380	<u> </u>			
				-		<del>+                                    </del>	A	b-der	~ E	131119	7

PAGE 1 OF 1

PROJECT NO.: 2042892.057

**CLIENT: Scarsdale School District** 

**SITE:** Greenacres Elementary

LOCATION(S) SURVEYED : Interior

PROPOSED PROJECT: N/A

DATE(S) OF INSPECTION: 8/30

061920468

Pro	ject <u>Manac</u>	<u>jer</u> : M	Johnson			<u>inspector(</u>	<u>s)</u> : Mike Johr	nson / Dre	w Ches	kin		
LEVEL/ FLOOR	AREA LOCATION	. <u>A</u>	REA DESCRIPTION	SAMPLE NO.	TESTING COMBI STRUCTURE/ BUILDING COMPONENT	NATION SUBSTRATE	SURFACE MATERIAL	SIZE SAMP	OF C	COLOR	QUANTITY SF or LF	RESULTS (mg/cm²) or (PPM)
1	1 Interior 2. Exterior 3.	Roon	4-Hallway	чн-в	Floor	2. Metal 3. Concrete	1. Paint Dust 3. Soil	1 12 ins. x	12 ms.	· · · · · · · · · · · · · · · · · · ·	1.54/ 1445,Th	
ů,	fr Interior	Room	n 7-Hallway	7H-B	floor	1: Vinyl Tile) 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4.	2.			157/ 1445/In	
	1. Interior 2. Exterior 3.	Bla	ink			1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x	12 ins			
	1. Interior 2. Exterior 3.	Bla	ink			1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2.	12 ins.			
	1! Interior 2. Extenor 3.					1, Vinyl Tile 2, Metal 3, Concrete 4.	1. Paint 2. Dust 3. Soil	1. 12 ins x 2.	12 ins.			
	1, Interior 2. Exterior 3.					1. Vinyl Tite 2. Metal 3. Concrete 4	1. Paint 2. Dust 3. Soil	1, 12 ins. x 2.	12 ins		61	EMSL CA
-	1. Interior 2. Exterior 3.					1 Vinyl Tile 2. Metal 3. Concrete	1. Paint 2. Dust 3. Soll	1, 12 ins. x 2.	12 ins.		AUG 3	ANAL RLE P
	1. Interior 2. Exterior 3.				(F)	1. Vinyl Tile 2. Metal 3. Concrete 4.	1. Paint 2. Dust 3. Soil 4	1. 12 ins. x 2.	12 ins.		TO LE	YTICA YTICA
РНҮЭ	ICAL CONDITION AS	SESSMENT			CHAIN OF CUSTOR	OY			CERT. N			
Fair - Le	Entire surface is intact ess than or equal to 10 Nore than 10 square fe	square feet	Type of Analysis: AAS Turnaround Time	7) XRF 5 12 hrs_2	4 hrs 48 hrs 72 hrs 5 days		DATE	TIME	NAME: I	RE: D	¥ 0	311
A- ASSI	UMED (NOT GAMPLE  ATOMIC ABS  ROMETRY  X RAY FLOU	ED) SORPTION RESCENT	Relinquished by: (print) Received by: (print) Relinquished by: (print) Received by: (print)	(Sign) (Sign) (Sign)	en e	8 31 19	1:10 AMEM 2:3 · AMIRED AMIPM	TELEPHON ADDRESS: TASKS COI 1 A visual di 2.Collect pa 3.Quantify th 6.Submit bu 7.Sample lo	IE NO.: (212) 612. 96 Morton Street, the MPLETED: etermination of account chip samples of the amount of paint lik samples for analocations and suspections and suspections.	7900 8 Floor, New York, NY essible painted surface i suspect surfaces of b ed surfaces in their re	2 10014  tes and condition fullding components, spective locations.	
N SPECTO N H XRF = O O	X RAY FLOU		Received by:		(Sign)		<del> </del>	<b>†</b>	6.Submit bu 7.Sample io	ik samples for anal cations and suspec	lysis by AAS at materials were ident	tified on th



### APPENDIX D

**Laboratory Credentials** 

United States Department of Commerce National Institute of Standards and Technology



## Certificate of Accreditation to ISO/IEC 17025:2017

**NVLAP LAB CODE: 101048-10** 

EMSL Analytical, Inc.

Carle Place, NY

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

### **Asbestos Fiber Analysis**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.

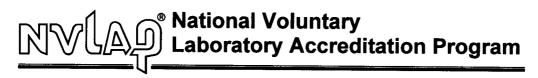
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2019-07-01 through 2020-06-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program





### **SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

### EMSL Analytical, Inc.

528 Mineola Ave. Carle Place, NY 11514 Daniel Clarke Phone: 516-997-7251

Email: dclarke@emsl.com http://www.emsl.com

### **ASBESTOS FIBER ANALYSIS**

### **NVLAP LAB CODE 101048-10**

### **Bulk Asbestos Analysis**

<u>Code</u>

**Description** 

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of

Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

### Airborne Asbestos Analysis

<u>Code</u>

**Description** 

18/A02

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in

40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

### NEW YORK STATE DEPARTMENT OF HEALTH WADSWORTH CENTER



Expires 12:01 AM April 01, 2020 Issued April 01, 2019

### CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. DANIEL CLARKE EMSL ANALYTICAL, INC. 528 MINEOLA AVE. CARLE PLACE, NY 11514 NY Lab Id No: 11469

is hereby APPROVED as an Environmental Laboratory for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE All approved subcategories and/or analytes are listed below:

#### Miscellaneous

Asbestos in Friable Material Item 198.1 of Manual

EPA 600/M4/82/020

Asbestos in Non-Friable Material-PLM Item 198.6 of Manual (NOB by PLM)

Asbestos in Non-Friable Material-TEM Item 198.4 of Manual Asbestos-Vermiculite-Containing Material Item 198.8 of Manual

Lead in Dust Wipes EPA 7000B

Lead in Paint EPA 7000B

Sample Preparation Methods

EPA 3051A

Serial No.: 59670

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.