Soil and Land Use Technology, Inc.
1818 New York Ave. NE, Ste 231, Washington, DC 20002 Telephone: (301) 595-3783
www.salutinc.com

July 3, 2019

Department of General Services
Office of Safety and Health, Facilities Division
2000 14th Street NW, 5th Floor
Washington, DC 20009

Subject: Poured-in-Place Playground Surface Testing Summary Report
Truesdell Educational Campus
800 Ingraham Street NW
Washington, DC 20011

On June 24, 2019, a Soil and Land Use Technology, Inc. (SaLUT) Industrial Hygienist (IH) conducted lead testing on the poured-in-place (PIP) playground surface at Truesdell Educational Campus, a property maintained by the Department of General Services (DGS), located at 800 Ingraham Street NW, Washington, DC 20011.

Site Description

Truesdell Education Center has a total of three playgrounds (PG). We numbered the PGs A, B, and C. All PGs totaled about 2305 ft^2 of PIP recycled rubber surfaces. PG A was the northern most PG with about 765 ft^2 of PIP surfaces. PG B is just south of PG A, in the middle of A and C and was about 1210 ft^2 in size. PG C is the southernmost with approximately 330 ft^2 PIP surfaces.

PG A was nearest the main school building and seemed to have elevated levels of wear and tear as related to PGs B and C. There seemed to be paint chips from the soffit of the school building littering the ground on the north side, next to PG A. PGs B and C seemed to have less wear and tear than PG A. The weather at the time of the testing was hot (>90° F) and sunny with winds out of the S/SE up to 5 mph. There were granules of the PG A's surface that had accumulated off the PIP east of the PG. Sample 190624-AHJ-327-B-12 was taken from an accumulation of those granules.

Methodology

The methodology for the onsite and laboratory testing is detailed in the *Poured-in-Place Playground Surfacing Testing Protocol*, dated June 27, 2019. In general, the following was conducted:

- Site reconnaissance
- Sampling layout and photograph documentation
- Lead screening with X-Ray Fluorescence (XRF)
- Collection of dust wipe samples
- Collection of bulk samples

- Field notes and sample documentation
- Laboratory Analysis of bulk samples using Flame Atomic Absorption (Flame AA) on rinsate (wash) and cleaned bulk rubber material
- XRF of the collected dust-wipes
- Quality Control (QC) and Quality Assurance (QA)
- Data entry, initial analysis, and reporting

The results of the testing are tabulated below.

Results

Table 1: Results of the Bulk Sampling and Rinsate Analysis, June 24, 2019

Sample No. ID	Sample Type / Material	Wash (mg/kg)	Rubber (mg/kg)
190624-AHJ-327-B-1	Bulk / Rubber	<810	21
190624-AHJ-327-B-2	Bulk / Rubber	<3900	<18
190624-AHJ-327-B-3	Bulk / Rubber	<530	23
190624-AHJ-327-B-4	Bulk / Rubber	1200	44
190624-AHJ-327-B-5	Bulk / Rubber	<4800	33
190624-AHJ-327-B-6	Bulk / Rubber	<2400	<20
190624-AHJ-327-B-7	Bulk / Rubber	<1400	<18
190624-AHJ-327-B-8	Bulk / Rubber	1100	<19
190624-AHJ-327-B-9	Bulk / Rubber	<1700	23
190624-AHJ-327-B-10	Bulk / Rubber	<1100	<20
190624-AHJ-327-B-11	Bulk / Rubber	<540	<18
190624-AHJ-327-B-12	Bulk / Rubber	190	26

Analyzed using EPA 7000B Flame Atomic Absorption
Note: mg/kg is equal to ppm

Table 2: Results of the XRF Screening, June 24, 2019

TIME	DURATION (secs)	SAMPLE #	LOCATION	Pb (ppm)	ERROR (+/-)
14:02	68.67	190624-ddn-x-327-1	PG A NEAR STEP	33.6	8.85
14:10	67.06	190624-ddn-x-327-2	PG A NEAR BLUE SLIDE	< LOD	9.74
14:20	69.9	190624-ddn-x-327-3	PG A NEAR RED SLIDE	25.55	7.06
14:29	68.88	190624-ddn-x-327-4	PG A NEAR RED SLIDE	60.9	10.48
14:43	72.04	190624-ddn-x-327-5	PG B	15.59	5.82
14:52	68.1	190624-ddn-x-327-6	PG B	322.4	18.05
14:59	67.55	190624-ddn-x-327-7	PG B	147.62	12.63
15:07	66.04	190624-ddn-x-327-8	PG B	89.77	10.96
15:13	67.18	190624-ddn-x-327-9	PG B	269	16.87
15:20	67.57	190624-ddn-x-327-10	PG C	17.66	6.91
15:27	73.26	190624-ddn-x-327-11	PG C	< LOD	9.18
15:34	72.83	190624-ddn-x-327-12	PG C	20.58	6.82

ppm- parts per million

Table 3: Results of the Wipe Sampling XRF Analysis, June 24, 2019

ANALYSIS DATE/TIME	TYPE	DURATION*[1]	SEQUENCE	SAMPLE #	PB (ug/ft^2)	ERROR (+/-)
6/28/2019 15:18	Cal	80.63	Final	Calibration	0.46	0.00
6/28/2019 19:41	Wipe	400	Final	190624-thb-327-w-1	< LOD	4.90
6/30/2019 21:20	Cal	78.79	Final	Calibration	0.56	0.00
6/30/2019 22:42	Wipe	400	Final	190624-thb-327-w-2	< LOD	4.94
6/30/2019 22:17	Wipe	400	Final	190624-thb-327-w-3	< LOD	4.41
6/30/2019 22:57	Wipe	400	Final	190624-thb-327-w-4	< LOD	4.64
6/30/2019 23:11	Wipe	400	Final	190624-thb-327-w-5	< LOD	4.26
6/30/2019 23:50	Wipe	400	Final	190624-thb-327-w-6	< LOD	4.05
7/1/2019 0:05	Wipe	400	Final	190624-thb-327-w-7	< LOD	4.52
7/1/2019 0:20	Wipe	400	Final	190624-thb-327-w-8	< LOD	4.25
7/1/2019 0:35	Wipe	400	Final	190624-thb-327-w-9	< LOD	4.25
7/1/2019 1:12	Wipe	400	Final	190624-thb-327-w-10	< LOD	4.69
7/1/2019 1:29	Wipe	400	Final	190624-thb-327-w-11	< LOD	5.02
7/1/2019 1:51	Wipe	400	Final	190624-thb-327-w-12	< LOD	5.30

LOD = Limit of detection

*1 – Duration is represented here as the total analysis time of 4 – 100 second analysis periods corrected by source energy (i.e. 100 second source duration was equal to 150 seconds actual time.

Table 4: Results of the Wipe Sampling XRF Analysis vs. Laboratory EPA 7000B

SAMPLE #	ANALYSIS METHOD	PB (ug/ft^2)	ERROR (+/-)
190624-thb-327-w-1	XRF	< LOD	4.90
190624-thb-327-w-1-D	EPA 7000B	< 10.0	NA
190624-thb-327-w-7	XRF	< LOD	4.52
190624-thb-327-w-7-D	EPA 7000B	< 10.0	NA
190624-thb-327-w-8	XRF	< LOD	4.25
190624-thb-327-w-8-D	EPA 7000B	< 10.0	NA
190624-thb-327-w-11	XRF	< LOD	5.02
190624-thb-327-w-11-D	EPA 7000B	< 10.0	NA

LOD = Limit of detection

EPA 7000B uses Flame Atomic Absorption (FLAA) done at AMA Analytical Laboratories.

Findings and Conclusions

The bulk rubber sampling results indicated low levels of lead within the rubber surfacing material ranging from below detectable limits to between 21 and 44 ppm. However; lead in the rinsate (wash) samples indicated higher levels of lead from below detectable limits to 1200 ppm. Results of the XRF indicated screening levels of below detection limits to 322 ppm. Surface wipe samples was not detected using XRF wipe sample analysis methods which was confirmed by duplicate sample analysis at AMA Analytical Laboratory using EPA 7000B methods.

The surface wipe sample represents surface dust that may be collected by children's hands, clothes, etc. The rinsate (wash) samples represent what lead may be readily absorbed if a child puts the bulk into their mouths and/or what may be deposited on their hands if they are handled. Both the surface wipe and the rinsate (wash) sample lead levels can be attributed to external sources, not the playground surfacing materials. The bulk samples indicate what lead is contained within the recycled rubber itself and which may be available if these rubber pieces were digestible.

Both the lead in bulk rinsate (wash water) and on the surfaces of the PIP playgrounds are in a matrix that potentially can be easily removed through regular maintenance and cleaning.

In conclusion, based on the current results of this investigation, the highest lead exposure risk is present in the dust more than the rubber itself.

Based on the findings and conclusions of this report, SaLUT recommends the following initial recommendations:

1. Perform a lead hazard risk assessment combining and comparing all schools (scheduled for completion after the conclusion of testing).
2. In the interim, perform debris removal at and around the playground surfacing (scheduled for completion prior to school year 19/20 commencement).

Sincerely,

Senior Certified Industrial Hygienist
Soil and Land Use Technology Inc. (SaLUT)

Attachments
Attachment A - Laboratory Analytical Results and Chain-of-Custody Forms
Attachment B – Sample Location Maps

Attachment A

Laboratory Analytical Results and Chain-of-Custody Forms

AMA Analytical Services, Inc.
Focused On Results.

CERTIFICATE OF ANALYSIS

Chain of Custody: 307932

Client: SaLUT, Inc.

Address: 1818 New York Avenue, NE
Suite 231
Washington, DC 20002

Attention: Mark Applegate

Job Name: Truesdell Education Campus (327)

Job Location: 800 Ingraham St., NW, DC 20011

Job Number: Not Provided

P.O. Number: Not Provided

Date Submitted: 06/24/2019

Date Analyzed: 06/26/2019

Report Date: 06/26/2019

Date Sampled: 06/24/2019

Person Submitting: Mark Applegate

Summary of Atomic Absorption Analysis for Lead

AMA Sample Number	Client Sample Number	Analysis Type	Sample Type	Reporting Limit	Final Result	Comments
307932-1	190624-AHJ-327-B-1	Flame AA	Soil/Solid	18 mg/Kg	21 mg/Kg	Bulk Rubber Chunks
307932-2	190624-AHJ-327-B-2	Flame AA	Soil/Solid	18 mg/Kg	<18 mg/Kg	
307932-3	190624-AHJ-327-B-3	Flame AA	Soil/Solid	18 mg/Kg	23 mg/Kg	
307932-4	190624-AHJ-327-B-4	Flame AA	Soil/Solid	19 mg/Kg	44 mg/Kg	
307932-5	190624-AHJ-327-B-5	Flame AA	Soil/Solid	19 mg/Kg	33 mg/Kg	
307932-6	190624-AHJ-327-B-6	Flame AA	Soil/Solid	20 mg/Kg	<20 mg/Kg	
307932-7	190624-AHJ-327-B-7	Flame AA	Soil/Solid	18 mg/Kg	<18 mg/Kg	
307932-8	190624-AHJ-327-B-8	Flame AA	Soil/Solid	19 mg/Kg	<19 mg/Kg	
307932-9	190624-AHJ-327-B-9	Flame AA	Soil/Solid	20 mg/Kg	23 mg/Kg	
307932-10	190624-AHJ-327-B-10	Flame AA	Soil/Solid	20 mg/Kg	<20 mg/Kg	
307932-11	190624-AHJ-327-B-11	Flame AA	Soil/Solid	18 mg/Kg	<18 mg/Kg	
307932-12	190624-AHJ-327-B-12	Flame AA	Soil/Solid	18 mg/Kg	26 mg/Kg	

Analysis Method for Flame: Air, Wipes, Paints, and Soil/Solids: EPA 600/R-93/200(M)-7000B; Water: SM-3111B Analysis Method For Furnace: Air, Wipes, Paints, and Soil/Solids : EPA 600/R-93/200(M)-7010; Water: SM-3113B N/A = Not Applicable mg/Kg = parts per million (ppm) on a dry weight basis mg/L = parts per million (ppm) %Pb = percent lead on a dry weight basis ug = micrograms ug/L = parts per billion (ppb)
Note: All samples were received in good condition unless otherwise noted.
Note: All results have two significant digits. Any additional digits shown should not be considered when interpreting the result.

Analyst(s): Nida McGarvey

See QC Summary for analytical results of quality control samples associated with these samples.

Air and Wipe results are not corrected for any blank results. Final results for air and wipe samples are based on client supplied information not verified by this laboratory.

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

AMA Analytical Services, Inc.
Focused On Results.

CERTIFICATE OF ANALYSIS

Chain of Custody: 307932

Client: SaLUT, Inc.

Address: 1818 New York Avenue, NE
Suite 231
Washington, DC 20002

Attention: Mark Applegate

Job Name: Truesdell Education Campus (327)

Job Location: 800 Ingraham St., NW, DC 20011

Job Number: Not Provided

P.O. Number: Not Provided

Date Submitted: 06/24/2019

Date Analyzed: 06/26/2019

Report Date: 06/26/2019

Date Sampled: 06/24/2019

Person Submitting: Mark Applegate

Summary of Atomic Absorption Analysis for Lead

AMA Sample Number	Client Sample Number	Analysis Type	Sample Type	Reporting Limit	Final Result	Comments

Technical Director G. Edward Carney

AMA Analytical Services, Inc.
Focused On Results.

QC Summary for SDG #60658

Overview

Analysis Type: Flame AA
Sample Type: Soil/Solid
Analysis Date: 06/26/2019

Samples Included

307932-1 307932-10 307932-11 307932-12 307932-2 307932-3 307932-4 307932-5
307932-6 307932-7 307932-8 307932-9

Preparation Blank ✔

Result: 0.006 ppm

Report Limit Vertification Sample ✔

Percent Recovery: 113.6%

Duplicates ✔

RPD: 2.2%

Matrix Spike Analysis ✔

Spiked Sample Percent Recovery: 105.5%
Spike Duplicate Percent Recovery: 104.9%
RPD: 0.6%

Matrix Blank ✔

Result: 0.067 ppm

Laboratory Control Sample #1 ✔

Percent Recovery: 106.9%

Laboratory Control Sample #2 ✔

Percent Recovery: 115.86%

Reference Sample

Percent Recovery: N/A

Calibration Curve ✔

Correlation: 0.999419

Serial Dilution / Bench Spike

Serial Dilution RPD: N/A
Bench Spike Percent Recovery: N/A

Notes

AMA Analytical Services, Inc.
Focused on Results www.amalab.com
AIHA-LAP (#100470) NVLAP (#101143-0) NY ELAP (10920)
4475 Forbes Blvd. • Lanham, MD 20706
(301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

CHAIN OF CUSTODY

(Please Refer To This Number For Inquires) 307932 - Soil/Paint
615547 - ~~TCLP~~ DUST

Mailing/Billing Information: Salut

1. Client Name: _____
2. Address 1: _____
3. Address 2: _____
4. Address 3: _____
5. Phone #: _____ Fax #: _____

Submittal Information:

1. Job Name: Truesdell (327) Education Campus
2. Job Location: 800 Ingraham Street NW DC 20011
3. Job #: 19-074 P.O. #: _____
4. Contact Person: Mark Applegate Cell: _____
5. Collected by: Azam Cell: _____

Reporting Info (Results provided as soon as technically feasible). If no TAT/Reporting Info is provided, AMA will assign defaults of 5-Day and email/fax to contacts on file.

AFTER HOURS (must be pre-scheduled)	NORMAL BUSINESS HOURS	REPORT TO:
❑ 4 Hours ❑ Late Night ❑ Immediate Date Due: _____ ❑ 24 Hours Time Due: _____ Comments: _____	❑ 4 Hours ❑ 3 Day ❑ Same Day ❑ 5 Day + ❑ Next Day Date Due: _____ ❑ 2 Day ❑ Results Required By Noon	❑ Email: _____ ❑ Email 2: _____ ❑ Verbals: _____

Asbestos Analysis

*PCM Air – Please Indicate Filter Type: _____
- ❑ NIOSH 7400 _____ (QTY)
- ❑ Fiberglass _____ (QTY)

TEM Air* – Please Indicate Filter Type: _____
- ❑ AHERA _____ (QTY)
- ❑ NIOSH 7402 _____ (QTY)
- ❑ Other (specify _____) _____ (QTY)

PLM Bulk
- ❑ EPA 600 – Visual Estimate _____ (QTY) ❑ Pos Stop
- ❑ EPA Point Count _____ (QTY)
- ❑ NY State Friable 198.1 _____ (QTY)
- ❑ Grav. Reduction ELAP 198.6 _____ (QTY)
- ❑ Other (specify _____) _____ (QTY)

MISC
- ❑ Asbestos Soil PLM__(Qual) PLM__(Quan) PLM/TEM__(Qual) PLM/TEM__(Quan)

*It is recommended that blank samples be submitted with all air and surface samples

TEM Bulk
- ❑ ELAP 198.4/Chatfield _____ (QTY)
- ❑ NY State PLM/TEM _____ (QTY)
- ❑ Residual Ash _____ (QTY)
- ❑ Vermiculite

TEM Dust*
- ❑ Qual. (pres/abs) Vacuum/Dust _____ (QTY)
- ❑ Quan. (s/area) Vacuum D5755-95 _____ (QTY)
- ❑ Quan. (s/area)Dust D6480-99 _____ (QTY)

TEM Water
- ❑ Qual. (pres/abs) _____ (QTY)
- ❑ ELAP 198.2/EPA 100.2 _____ (QTY)
- ❑ EPA 100.1 _____ (QTY)

☒ All samples received in good condition unless otherwise noted.
(TEM Water samples _____ °C)

If field data sheets are submitted, there is no need to complete bottom section.

Metals Analysis
- ❑ Pb Paint Chip _____ (QTY)
- ❑ *Pb Dust Wipe (wipe type _____) _____ (QTY)
- ❑ *Pb Air _____ (QTY)
- ☒ Pb Soil/Solid 12 (QTY)
- ☒ Pb TCLP 12 (QTY)
- ❑ Drinking Water ❑ Pb _____ (QTY) ❑ Cu _____ (QTY) ❑ As _____ (QTY)
- ❑ Waste Water ❑ Pb _____ (QTY) ❑ Cu _____ (QTY) ❑ As _____ (QTY)
- ❑ Pb Furnace (Media _____) _____ (QTY)

Fungal Analysis

Collection Apparatus for Spore Traps/Air Samples: _____
Collection Media _____
- ❑ *Spore-Trap _____ (QTY) ❑ Surface Vacuum Dust _____ (QTY)
- ❑ *Surface Swab _____ (QTY)
- ❑ *Surface Tape _____ (QTY)
- ❑ Other (Specify _____) _____ (QTY)

CLIENT ID #	SAMPLE INFORMATION SAMPLE LOCATION/ ID	DATE/ TIME	VOL (L)/ Wipe Area	ANALYSIS: TEM	PCM	PLM	LEAD	MOLD	MATRIX: AIR	BULK	DUST	WATER AND OTHER	SPORE TRAP	TAPE	SWAB	COMMENTS / SPECIAL INSTRUCTIONS

	Print Name	Signature	Date	Time
Relinquished by:				
Received by:			6/24/19	17:00

Shipping Information
☐ UPS ☐ In-Person ☐ Other
☐ FedEx ☐ Drop Box
☐ USPS ☐ Courrier

SaLUT
Soil and Land Use Technology, Inc.
1818 New York Ave. NE, Ste 231, Washington, DC 20002
Telephone: (301) 595-3783
www.salutinc.com

Job #: 19-074
Page 1 of 1

Non-Air Monitoring & Sampling Datasheet

Location address: Truesdell (327) Education Campus 800 Ingraham St. NW DC 20011

Sampler: Azzam Sampling date: 6-24-19

General sampling notes: Bulk loose rubber chunks

Sample #	Location/area	Material	Type	Area (ft^2)	Analysis method	Notes:
190624-AHJ-327-B-1						
190624-AHJ-327-B-2						
190624-AHJ-327-B-3						Substraight material
" " " " 4						
" " " " 5						
" " " " 6						
" " " " 7						
190624-AHJ-327-B-8						Substraight material
" " " " 9						
" " " " 10						
" " " " 11						
" " " " 12						

Notes:

Sampler signature: AHJ Mark Applegate Date: 6-24-19

Received by*: DEG Lab: AMA Analytical Services, Inc. Date: 6/24/19

*Receiver acknowledges that all samples were received in good order, properly containerized and preserved and that every sample was without damage and/or obvious tampering of custody seals.

AMA Analytical Services, Inc.
Focused On Results.

CERTIFICATE OF ANALYSIS

Chain of Custody: 615547

Client: SaLUT, Inc.

Address: 1818 New York Avenue, NE
Suite 231
Washington, DC 20002

Attention: Mark Applegate

Job Name: Truesdell Education Campus (327)

Job Location: 800 Ingraham St., NW, DC 20011

Job Number: Not Provided

P.O. Number: Not Provided

Date Submitted: 06/24/2019

Date Analyzed: 06/25/2019

Report Date: 06/26/2019

Date Sampled: 06/24/2019

Person Submitting: Mark Applegate

Summary of Atomic Absorption Analysis for Lead

AMA Sample Number	Client Sample Number	Analysis Type	Sample Type	Reporting Limit	Final Result	Comments
615547-1	190624-AHJ-327-B-1	Flame AA	Soil/Solid	810 mg/Kg	<810 mg/Kg	Rinsed Dust Samples.
615547-2	190624-AHJ-327-B-2	Flame AA	Soil/Solid	3900 mg/Kg	<3900 mg/Kg	
615547-3	190624-AHJ-327-B-3	Flame AA	Soil/Solid	530 mg/Kg	<530 mg/Kg	
615547-4	190624-AHJ-327-B-4	Flame AA	Soil/Solid	740 mg/Kg	1200 mg/Kg	
615547-5	190624-AHJ-327-B-5	Flame AA	Soil/Solid	4800 mg/Kg	<4800 mg/Kg	
615547-6	190624-AHJ-327-B-6	Flame AA	Soil/Solid	2400 mg/Kg	<2400 mg/Kg	
615547-7	190624-AHJ-327-B-7	Flame AA	Soil/Solid	1400 mg/Kg	<1400 mg/Kg	
615547-8	190624-AHJ-327-B-8	Flame AA	Soil/Solid	880 mg/Kg	1100 mg/Kg	
615547-9	190624-AHJ-327-B-9	Flame AA	Soil/Solid	1700 mg/Kg	<1700 mg/Kg	
615547-10	190624-AHJ-327-B-10	Flame AA	Soil/Solid	1100 mg/Kg	<1100 mg/Kg	
615547-11	190624-AHJ-327-B-11	Flame AA	Soil/Solid	540 mg/Kg	<540 mg/Kg	
615547-12	190624-AHJ-327-B-12	Flame AA	Soil/Solid	92 mg/Kg	190 mg/Kg	

Analysis Method for Flame: Air, Wipes, Paints, and Soil/Solids: EPA 600/R-93/200(M)-7000B; Water: SM-3111B Analysis Method For Furnace: Air, Wipes, Paints, and Soil/Solids : EPA 600/R-93/200(M)-7010; Water: SM-3113B N/A = Not Applicable mg/Kg = parts per million (ppm) on a dry weight basis mg/L = parts per million (ppm) %Pb = percent lead on a dry weight basis ug = micrograms ug/L = parts per billion (ppb)
Note: All samples were received in good condition unless otherwise noted.
Note: All results have two significant digits. Any additional digits shown should not be considered when interpreting the result.

Analyst(s): George Land

See QC Summary for analytical results of quality control samples associated with these samples.

Air and Wipe results are not corrected for any blank results. Final results for air and wipe samples are based on client supplied information not verified by this laboratory.

All results are to be considered preliminary and subject to change unless signed by the Technical Director or Deputy.

AMA Analytical Services, Inc.
Focused On Results.

CERTIFICATE OF ANALYSIS

Chain of Custody: 615547

Client: SaLUT, Inc.

Address: 1818 New York Avenue, NE
Suite 231
Washington, DC 20002

Attention: Mark Applegate

Job Name: Truesdell Education Campus (327)

Job Location: 800 Ingraham St., NW, DC 20011

Job Number: Not Provided

P.O. Number: Not Provided

Date Submitted: 06/24/2019

Date Analyzed: 06/25/2019

Report Date: 06/26/2019

Date Sampled: 06/24/2019

Person Submitting: Mark Applegate

Summary of Atomic Absorption Analysis for Lead

AMA Sample Number	Client Sample Number	Analysis Type	Sample Type	Reporting Limit	Final Result	Comments

Technical Director G. Edward Carney

AMA Analytical Services, Inc.
Focused On Results.

QC Summary for SDG #60653

Overview

Analysis Type: Flame AA
Sample Type: Soil/Solid
Analysis Date: 06/26/2019

Samples Included

615547-1 615547-10 615547-11 615547-12 615547-2 615547-3 615547-4 615547-5 615547-6 615547-7 615547-8 615547-9

Preparation Blank ✔

Result: 0.057 ppm

Report Limit Vertification Sample ✔

Percent Recovery: 84.0%

Duplicates ✔

RPD: N/A

Matrix Spike Analysis ✔

Spiked Sample Percent Recovery: 101.8%
Spike Duplicate Percent Recovery: 99.7%
RPD: 2.1%

Matrix Blank

Result: N/A

Laboratory Control Sample #1 ✔

Percent Recovery: 101.0%

Laboratory Control Sample #2 ✔

Percent Recovery: 102.40%

Reference Sample

Percent Recovery: N/A

Calibration Curve ✔

Correlation: 0.99854

Serial Dilution / Bench Spike

Serial Dilution RPD: N/A
Bench Spike Percent Recovery: N/A

Notes

Both Duplicate results are below the reporting limit, making RPD limits for these QC samples not applicable.

AMA Analytical Services, Inc.
Focused on Results www.amalab.com
AIHA-LAP (#100470) NVLAP (#101143-0) NY ELAP (10920)
4475 Forbes Blvd. • Lanham, MD 20706
(301) 459-2640 • (800) 346-0961 • Fax (301) 459-2643

CHAIN OF CUSTODY

(Please Refer To This Number For Inquires) 307932 - Soil/Paint
615547 - ~~TCLP~~ DUST

Mailing/Billing Information: Salut

1. Client Name: _____
2. Address 1: _____
3. Address 2: _____
4. Address 3: _____
5. Phone #: _____ Fax #: _____

Submittal Information:

1. Job Name: Truesdell (327) Education Campus
2. Job Location: 800 Ingraham Street NW DC 20011
3. Job #: 19-074 P.O. #: _____
4. Contact Person: Mark Applegate Cell: _____
5. Collected by: Azam Cell: _____

Reporting Info (Results provided as soon as technically feasible). If no TAT/Reporting Info is provided, AMA will assign defaults of 5-Day and email/fax to contacts on file.

AFTER HOURS (must be pre-scheduled)	NORMAL BUSINESS HOURS	REPORT TO:
❑ 4 Hours ❑ Late Night ❑ Immediate Date Due: _____ ❑ 24 Hours Time Due: _____ Comments: _____	❑ 4 Hours ❑ 3 Day ❑ Same Day ❑ 5 Day + ❑ Next Day Date Due: _____ ❑ 2 Day ❑ Results Required By Noon	❑ Email: _____ ❑ Email 2: _____ ❑ Verbals: _____

Asbestos Analysis

*PCM Air – Please Indicate Filter Type: _____
- ❑ NIOSH 7400 _____ (QTY)
- ❑ Fiberglass _____ (QTY)

TEM Air* – Please Indicate Filter Type: _____
- ❑ AHERA _____ (QTY)
- ❑ NIOSH 7402 _____ (QTY)
- ❑ Other (specify _____) _____ (QTY)

PLM Bulk
- ❑ EPA 600 – Visual Estimate _____ (QTY) ❑ Pos Stop
- ❑ EPA Point Count _____ (QTY)
- ❑ NY State Friable 198.1 _____ (QTY)
- ❑ Grav. Reduction ELAP 198.6 _____ (QTY)
- ❑ Other (specify _____) _____ (QTY)

MISC
- ❑ Asbestos Soil PLM__(Qual) PLM__(Quan) PLM/TEM__(Qual) PLM/TEM__(Quan)

*It is recommended that blank samples be submitted with all air and surface samples

TEM Bulk
- ❑ ELAP 198.4/Chatfield _____ (QTY)
- ❑ NY State PLM/TEM _____ (QTY)
- ❑ Residual Ash _____ (QTY)
- ❑ Vermiculite

TEM Dust*
- ❑ Qual. (pres/abs) Vacuum/Dust _____ (QTY)
- ❑ Quan. (s/area) Vacuum D5755-95 _____ (QTY)
- ❑ Quan. (s/area)Dust D6480-99 _____ (QTY)

TEM Water
- ❑ Qual. (pres/abs) _____ (QTY)
- ❑ ELAP 198.2/EPA 100.2 _____ (QTY)
- ❑ EPA 100.1 _____ (QTY)

☒ All samples received in good condition unless otherwise noted.
(TEM Water samples _____ °C)

If field data sheets are submitted, there is no need to complete bottom section.

Metals Analysis
- ❑ Pb Paint Chip _____ (QTY)
- ❑ *Pb Dust Wipe (wipe type _____) _____ (QTY)
- ❑ *Pb Air _____ (QTY)
- ☒ Pb Soil/Solid 12 (QTY)
- ☒ Pb TCLP 12 (QTY)
- ❑ Drinking Water ❑ Pb _____ (QTY) ❑ Cu _____ (QTY) ❑ As _____ (QTY)
- ❑ Waste Water ❑ Pb _____ (QTY) ❑ Cu _____ (QTY) ❑ As _____ (QTY)
- ❑ Pb Furnace (Media _____) _____ (QTY)

Fungal Analysis

Collection Apparatus for Spore Traps/Air Samples: _____
Collection Media _____
- ❑ *Spore-Trap _____ (QTY) ❑ Surface Vacuum Dust _____ (QTY)
- ❑ *Surface Swab _____ (QTY)
- ❑ *Surface Tape _____ (QTY)
- ❑ Other (Specify _____) _____ (QTY)

CLIENT ID #	SAMPLE INFORMATION SAMPLE LOCATION/ ID	DATE/ TIME	VOL (L)/ Wipe Area	ANALYSIS: TEM	PCM	PLM	LEAD	MOLD	MATRIX: AIR	BULK	DUST	WATER AND OTHER	SPORE TRAP	TAPE	SWAB	COMMENTS / SPECIAL INSTRUCTIONS

	Print Name	Signature	Date	Time
Relinquished by:				
Received by:			6/24/19	17:00

Shipping Information
☐ UPS ☐ In-Person ☐ Other
☐ FedEx ☐ Drop Box
☐ USPS ☐ Courrier

SaLUT
Soil and Land Use Technology, Inc.
1818 New York Ave. NE, Ste 231, Washington, DC 20002
Telephone: (301) 595-3783
www.salutinc.com

Job #: 19-074
Page 1 of 1

Non-Air Monitoring & Sampling Datasheet

Location address: Truesdell (327) Education Campus 800 Ingraham St. NW DC 20011

Sampler: Azzam Sampling date: 6-24-19

General sampling notes: Bulk loose rubber chunks

Sample #	Location/area	Material	Type	Area (ft^2)	Analysis method	Notes:
190624-AHJ-327-B-1						
190624-AHJ-327-B-2						
190624-AHJ-327-B-3						Substraight material
" " " " 4						
" " " " 5						
" " " " 6						
" " " " 7						
190624-AHJ-327-B-8						Substraight material
" " " " 9						
" " " " 10						
" " " " 11						
" " " " 12						

Notes:

Sampler signature: AHJ Mark Applegate Date: 6-24-19

Received by*: DEG Lab: AMA Analytical Services, Inc. Date: 6/24/19

*Receiver acknowledges that all samples were received in good order, properly containerized and preserved and that every sample was without damage and/or obvious tampering of custody seals.

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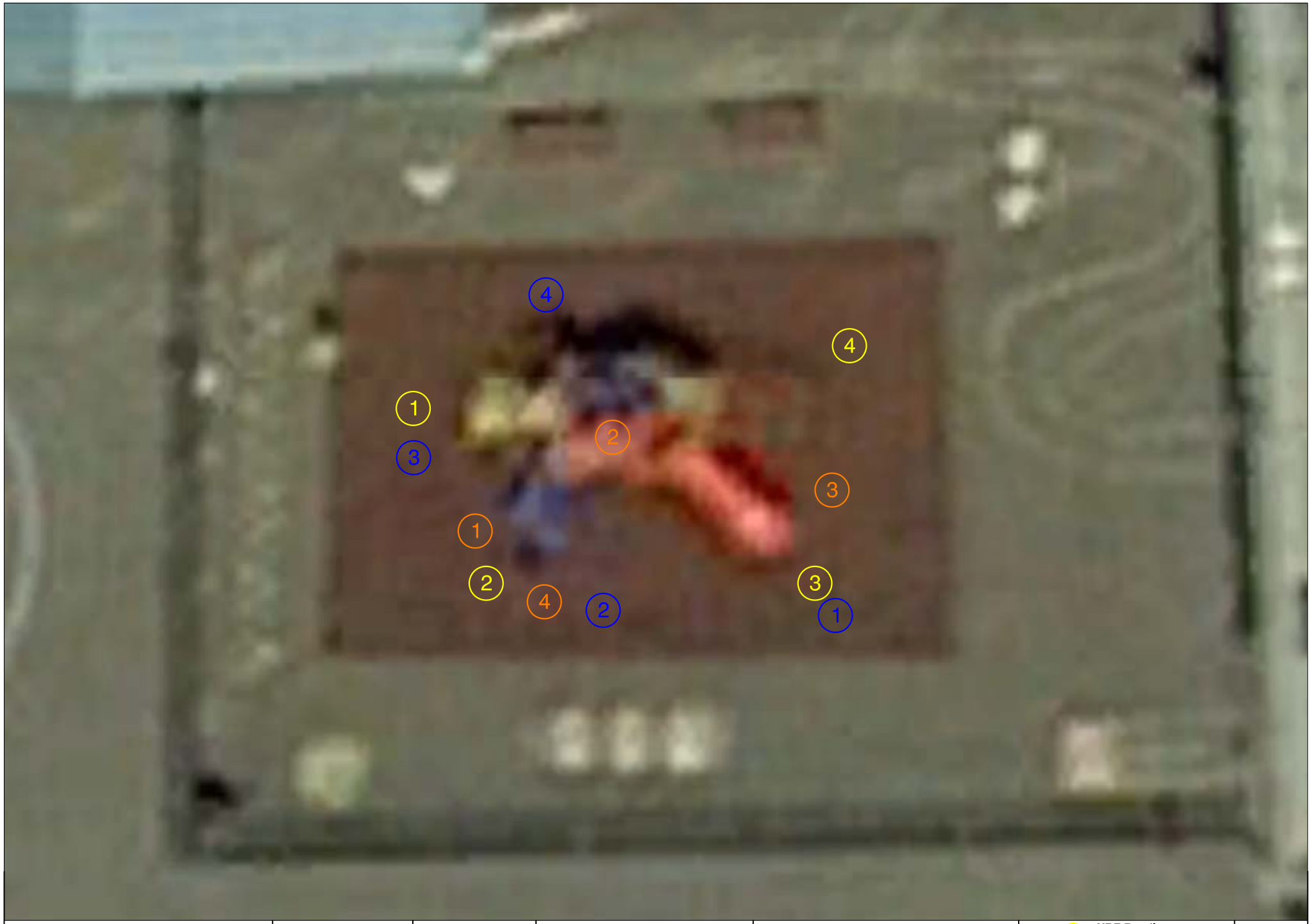
Job #: _____
Page ____ of ____

Map of site with sample and pertinent object and landmark locations (including compass direction)

Attachment B

Sample Location Maps



Soil and Land Use Technology, Inc.
1818 New York Ave, NE, Suite 231
Washington, DC 20002
(301) 595-3783

SCALE:
Not to Scale

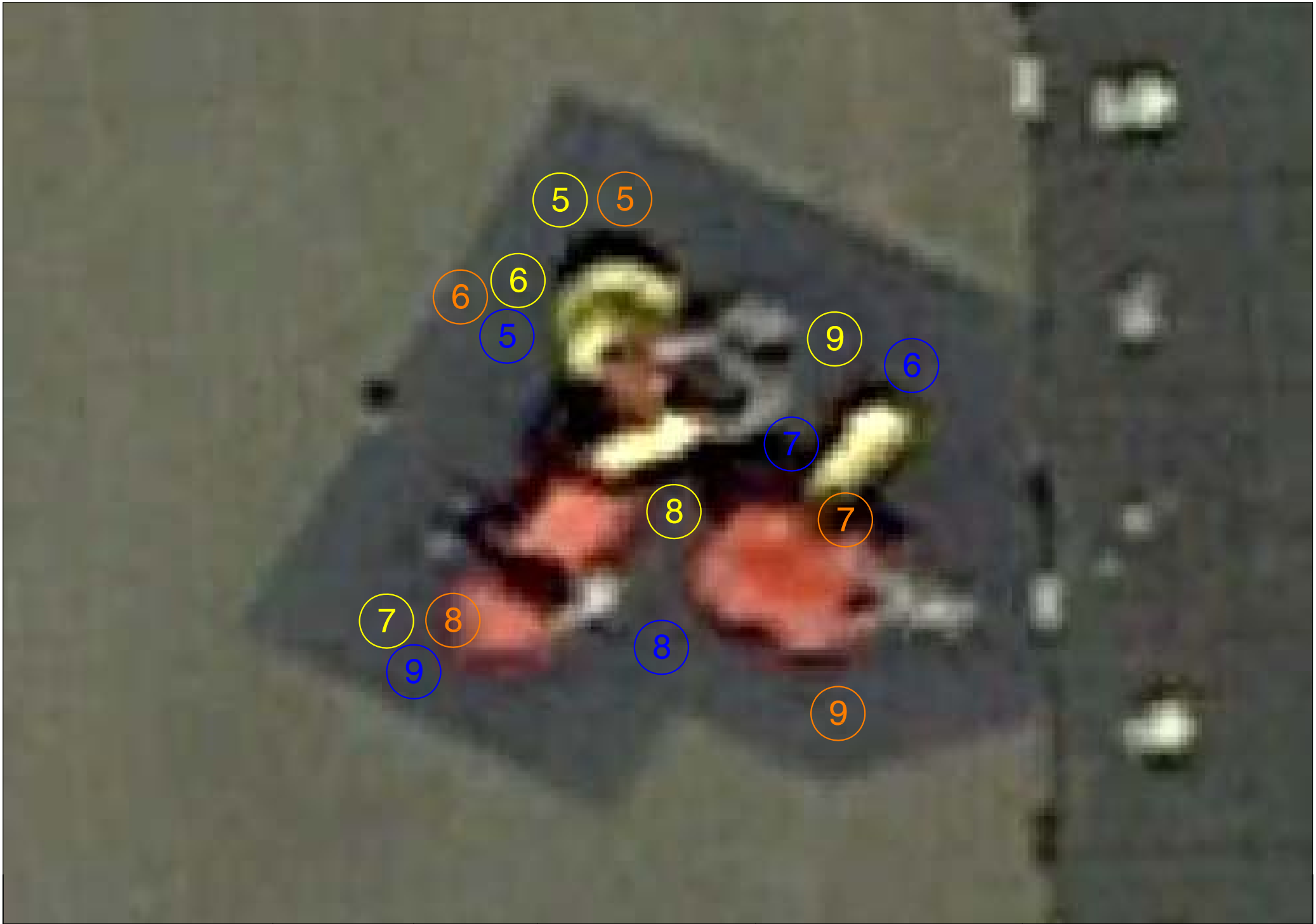
Truesdell Education Campus #327
Playground
800 Ingraham St. NW
Washington, DC 20011

Playground A

Approx. 765 ft²

- XRF Reading
- Bulk Sample
- Dust Wipe Sample

N



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(301) 595-3783

SCALE:
Not to Scale

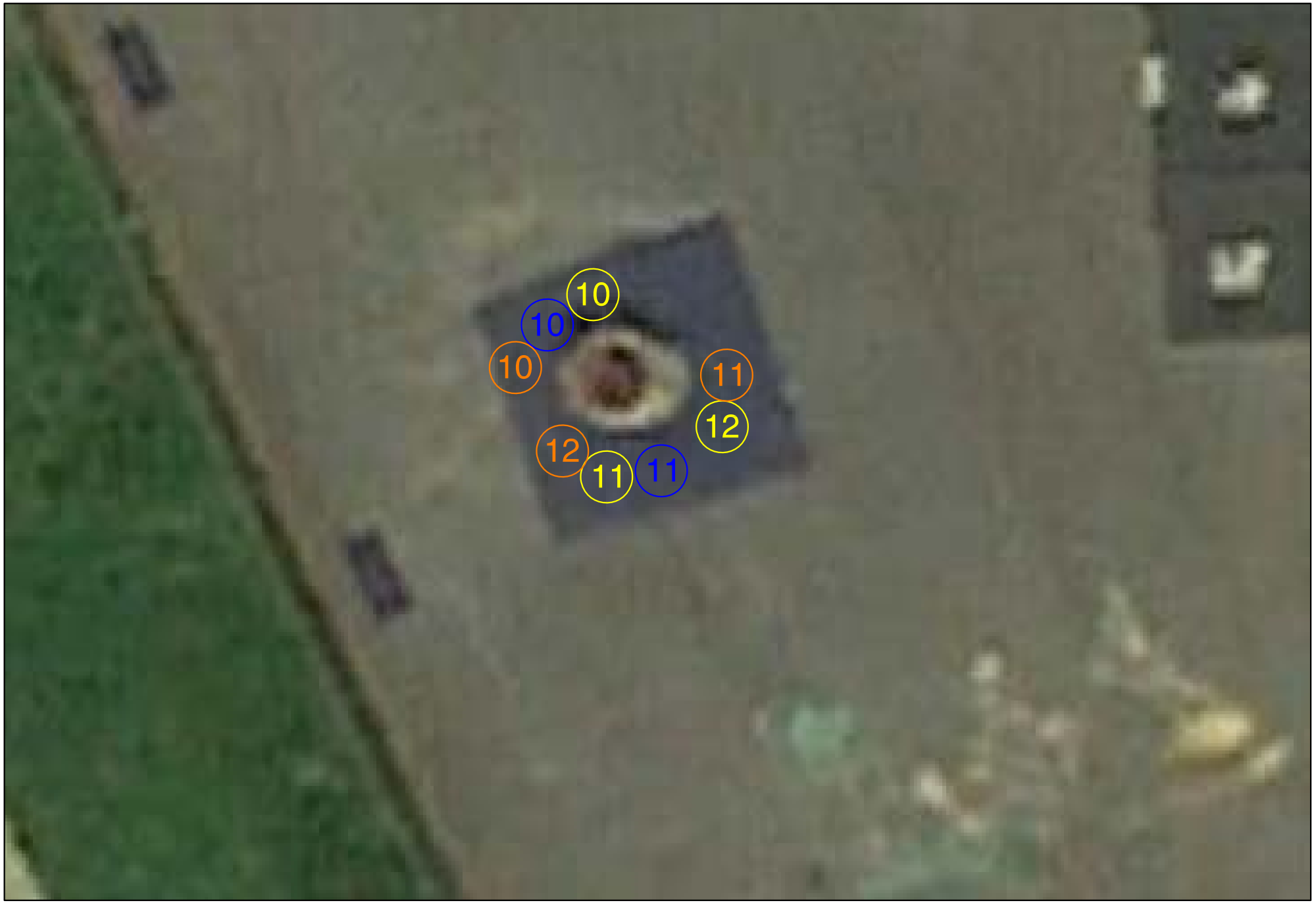
Truesdell Education Campus #327
Playground
800 Ingraham St. NW
Washington, DC 20011

Playground B

Approx. 1210 ft²

(#) - XRF Reading
(#) - Bulk Sample
(#) - Dust Wipe Sample

N



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Washington, DC 20002
(301) 595-3783

SCALE:
Not to Scale

Truesdell Education Campus #327
Playground
800 Ingraham St. NW
Washington, DC 20011

Playground C

Approx. 330 ft²

(#) - XRF Reading
(#) - Bulk Sample
(#) - Dust Wipe Sample

N