

June 16, 2023

Leslie Clark
Town of Superior
124 E. Coal Creek Drive
Superior, CO 80027

Subject: Airborne Lead Sampling, Seven Community Locations, Superior, CO
Pinyon Project Number: 123152301

Dear Ms. Clark:

Introduction

On May 16 and May 17, 2023, Pinyon Environmental, Inc. (Pinyon) completed air sampling for lead analysis at seven community locations within the Town of Superior (Town) (Figure 1). The seven sampling locations were chosen by the Town with respect to each location's proximity to the Rocky Mountain Metropolitan Airport (RMMA) flight patterns. The study included three indoor and four outdoor locations.

This study was requested due to community concerns regarding low lead fuel emissions from small engine aircraft affiliated with the RMMA, and an increase in flight activity in recent years. This report represents data for airborne lead concentrations found in the community and is a snapshot in time. This data and associated evaluation are not to be used or interpreted as a thorough study designed to target lead emissions specifically from aircraft emissions associated with RMMA flight activities, nor should the results be used to demonstrate compliance with the U.S. EPA National Ambient Air Quality Standards for lead.

According to the Griffiths¹ study that the Town shared with Pinyon, exhaust emission particle sizes from small piston aircraft have a mean diameter as small as 13 nanometers (nm) while exhaust automobile particles average 50 nm in diameter. Air sample collection near an airport, such as RMMA, at ground level would be expected to capture exhaust emission particles from both sources but would be unable to characterize between the two sources.

Project Details

Client Name:	Town of Superior
Proposal Date:	May 3, 2023
Sample Locations:	<u>Indoor Locations</u> • Superior Town Hall, 124 E. Coal Creek Dr. • The Bungalow, 112 E. William St. • Superior Community Center, 1500 Coalton Rd. <u>Outdoor Locations</u> • Superior Commons Park, 2250 Creek View Wy. • Purple Park, 1310 Pitkin Ave. • South Pool, 3300 Huron Peak Ave. • Pirate Park, 1466 Vinca Pl.

¹ <https://pubmed.ncbi.nlm.nih.gov/33100835/>

Survey Methods

Pinyon's environmental scientist collected the airborne samples utilizing intrinsically safe Buck Libra L-4 constant flow air sampling pumps that were calibrated to 2.0 liters per min (lpm). For each pump, Tygon® tubing was connected from the pump's inlet port to a 37-millimeter (mm), 3-piece air sampling cassette affixed with a 0.8 micrometer (µm) Mixed Cellulose Ester (MCE) filter. The pump was placed on the ground or tabletop surface during sampling, while the cassette at the end of the tubing was securely clipped to a tripod that held that cassette about three feet above ground surface. The pumps ran continuously for approximately eight hours on two separate days. Each morning, Pinyon placed each sampling pump and cassette in the designated locations, checked on them routinely throughout the day, and retrieved the pump and cassette in the evening. Although the pumps contained a rechargeable battery pack, the pumps were plugged into a power source during the sampling period. Each day, the seven pumps were pre-calibrated and post-calibrated in the field using a TSI 4100 Series primary calibrator. Weather data was also collected and recorded during the two-day sampling event.

The airborne lead laboratory analysis was conducted using the most sensitive test for metals in air which is the NIOSH 7300M method performed on an Inductively Coupled Plasma Mass Spectrometer (ICP-MS). This laboratory method has a reporting limit around 0.050 micrograms per cubic meter (µg/m³) of air. The samples and two field blanks (one for each day) were collected and submitted under Pinyon Chain of Custody protocols and submitted to LA Testing, an AIHA LAP, LLC-IHLAP accredited laboratory in Huntington Beach, California.

Findings

The two sampling days, which fell on a Tuesday and Wednesday, were generally sunny with mild wind and moderate temperatures. No precipitation was recorded in the area. The weather conditions are presented in Table I.

Table I Weather Conditions, Superior, CO

Date	Time Range	Average Temp. (°F)	Average Humidity (%)	Average Wind Speed (mph)	General Wind Direction
May 16, 2023	7:45 a.m. – 11:55 a.m.	67.7	37.4	4.0	East
	11:55 a.m. – 6:45 p.m.	74.6	26.5	9.0	Swirling, East to Northeast; West to Northwest
May 17, 2023	7:45 a.m. – 11:55 a.m.	69.5	33.5	5.9	East to Northeast
	11:55 a.m. – 4:45 p.m.	75.5	22.6	7.3	East to Northeast

Notes:

Temp. Temperature
 °F Degrees Fahrenheit
 % Percent
 mph Miles per hour

A total of 14 samples were collected from the same 7 locations each day, thus providing two separate data sets. The Clean Air Act requires the Environmental Protection Agency (EPA) to set National Ambient Air Quality Standards (NAAQS) (40 CFR Part 50) for six principal pollutants which can be harmful to public health and the environment. The level established for lead is not to exceed 0.15 µg/m³ over a three-month period. The results for the samples during this study were below the analytical reporting limit (less than 0.051 µg/m³).

to 0.058 $\mu\text{g}/\text{m}^3$). Refer to Table 2 for the sample results and Attachment A for the Laboratory Analytical Reports and Chain of Custody.

Table 2 Airborne Lead Sample Results

Location	Sample Number	Sample Duration (min)	Flow Rate (lpm)	Volume (Liters)	Results ($\mu\text{g}/\text{m}^3$)	NAAQS for Lead ($\mu\text{g}/\text{m}^3$)
Tuesday, May 16, 2023						
Superior Town Hall	051623-01	455	2.1	956	<0.052	0.15
The Bungalow	051623-02	469	2.0	938	<0.053	0.15
Superior Commons Park	051623-03	469	2.0	938	<0.053	0.15
Purple Park	051623-04	474	2.0	948	<0.053	0.15
Superior Community Center	051623-05	465	2.1	977	<0.051	0.15
South Pool	051623-06	476	2.0	952	<0.053	0.15
Pirate Park	051623-07	472	2.0	944	<0.053	0.15
Wednesday, May 17, 2023						
Superior Town Hall	051723-01	459	2.0	918	<0.054	0.15
The Bungalow	051723-02	457	1.9	868	<0.058	0.15
Superior Commons Park	051723-03	454	1.9	863	<0.058	0.15
Purple Park	051723-04	455	2.0	910	<0.055	0.15
Superior Community Center	051723-05	455	2.1	956	<0.052	0.15
South Pool	051723-06	449	2.1	943	<0.053	0.15
Pirate Park	051723-07	445	2.0	890	<0.056	0.15

Notes:

min Minutes

lpm liters per minute

NAAQS National Ambient Air Quality Standard

$\mu\text{g}/\text{m}^3$ Microgram per cubic meter of air

< Less than

Recommendations

The results of the two sampling events indicate that there were no detectable levels of airborne lead particles present above the laboratory reporting limit on the days sampled. For a detailed study to show correlation between small piston aircraft emission activity and community airborne lead exposure, Pinyon recommends a study with air samples collected at the airport over a period of time that correlates with the NAAQS evaluation criteria, exhaust emission sampling, and several hundred more airborne samples be collected. This sampling event was designed to provide an initial screening of airborne lead particles. The recommended detail study should follow the U.S. Environmental Protection Agency (EPA) Federal Reference Method (FRM) for measuring lead (Pb) in total suspended particulate matter (TSP).²

² https://www.epa.gov/sites/default/files/2016-03/documents/finalrule_lead_20130626fs.pdf

Limitations

This report was prepared by Pinyon Environmental, Inc., at the request of and for the sole benefit of the Town of Superior, or any entity controlling, controlled by, or under common control with the Town of Superior. Any use a third party makes of this report, including reuse or publication of any portion of this report or any reliance on or decisions to be made based upon the results presented, are the responsibility of such third party. Pinyon Environmental, Inc., shall not be liable for any damages arising out of such reuse or publication, and accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions taken based on this report.

The results, findings, conclusions and recommendations expressed in this report are based on a limited survey and the conditions observed on May 16 and May 17, 2023. Changes in environmental and weather conditions can affect changes in exposure. The information contained in this report should not be relied upon to represent conditions that existed previously or that are anticipated to occur at a future date.

We appreciate the opportunity to provide our services on this project. If we can be of any assistance, or if you have any questions regarding this report, please feel free to contact us at (303) 980-5200.

Sincerely,

PINYON ENVIRONMENTAL, INC.



Tricia M. McCready
Technical Lead – Industrial Hygiene | Health & Safety

Attachments:

Figure I Town of Superior Sample Locations
Attachment A Laboratory Analytical Reports

Figure I Town of Superior Sample Locations

Attachment A Laboratory Analytical Reports



LA Testing

5431 Industrial Drive, Huntington Beach, CA 92649

Phone: (714) 828-4999 Fax: (714) 828-4944 Email: gardengrovelab@latesting.com

Attn: **Tricia McCready**
Pinyon Environmental
3222 S. Vance Street
Suite 200
Lakewood, CO 80227

Phone: (303) 980-5200

Fax: (303) 980-0089

5/30/2023

The following analytical report covers the analysis performed on samples submitted to LA Testing on 5/24/2023. The results are tabulated on the attached data pages for the following client designated project:

123152301 SUPERIOR AIRBORNE LEAD

The reference number for these samples is EMSL Order #332309383. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (714) 828-4999.

Approved By:

Michael Chapman, Laboratory Manager

AIHA LAP, LLC-IHLAP Accredited #101650

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. 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. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.



LA Testing

5431 Industrial Drive, Huntington Beach, CA 92649

Phone/Fax: (714) 828-4999 / (714) 828-4944

<http://www.LATesting.com>

gardengrovelab@latesting.com

LA Testing Order: 332309383

CustomerID: PINY63

CustomerPO:

ProjectID:

Attn: **Tricia McCready**
Pinyon Environmental
3222 S. Vance Street
Suite 200
Lakewood, CO 80227

Phone: (303) 980-5200
Fax: (303) 980-0089
Received: 5/24/2023 10:10 AM
Collected: 5/17/2023

Project: 123152301 SUPERIOR AIRBORNE LEAD

Analytical Results

Client Sample Description 051623-01
TOWN HALL **Collected:** 5/16/2023 **Lab ID:** 332309383-0001

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.052	0.052	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051623-02
BUNGALOW **Collected:** 5/16/2023 **Lab ID:** 332309383-0002

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.053	0.053	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051623-03
SUPERIOR COMMONS **Collected:** 5/16/2023 **Lab ID:** 332309383-0003

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.053	0.053	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051623-04
PURPLE PARK **Collected:** 5/16/2023 **Lab ID:** 332309383-0004

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.053	0.053	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051623-05
COMMUNITY CENTER **Collected:** 5/16/2023 **Lab ID:** 332309383-0005

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.051	0.051	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051623-06
SOUTH POOL **Collected:** 5/16/2023 **Lab ID:** 332309383-0006

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						



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LA Testing Order: 332309383

CustomerID: PINY63

CustomerPO:

ProjectID:

Attn: **Tricia McCready**
Pinyon Environmental
3222 S. Vance Street
Suite 200
Lakewood, CO 80227

Phone: (303) 980-5200
Fax: (303) 980-0089
Received: 5/24/2023 10:10 AM
Collected: 5/17/2023

Project: 123152301 SUPERIOR AIRBORNE LEAD

Analytical Results

Client Sample Description 051623-06
SOUTH POOL **Collected:** 5/16/2023 **Lab ID:** 332309383-0006

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.053	0.053	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051623-07
PIRATE PARK **Collected:** 5/16/2023 **Lab ID:** 332309383-0007

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.053	0.053	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051623-08
FIELD BLANK **Collected:** 5/16/2023 **Lab ID:** 332309383-0008

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.050	0.050	µg/filter	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051723-01
TOWN HALL **Collected:** 5/17/2023 **Lab ID:** 332309383-0009

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.054	0.054	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051723-02
BUNGALOW **Collected:** 5/17/2023 **Lab ID:** 332309383-0010

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.058	0.058	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051723-03
SUPERIOR COMMONS **Collected:** 5/17/2023 **Lab ID:** 332309383-0011

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						



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LA Testing Order: 332309383

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Suite 200
Lakewood, CO 80227

Phone: (303) 980-5200
Fax: (303) 980-0089
Received: 5/24/2023 10:10 AM
Collected: 5/17/2023

Project: 123152301 SUPERIOR AIRBORNE LEAD

Analytical Results

Client Sample Description 051723-03
SUPERIOR COMMONS **Collected:** 5/17/2023 **Lab ID:** 332309383-0011

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.058	0.058	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051723-04
PURPLE PARK **Collected:** 5/17/2023 **Lab ID:** 332309383-0012

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.055	0.055	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051723-05
COMMUNITY CENTER **Collected:** 5/17/2023 **Lab ID:** 332309383-0013

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.052	0.052	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051723-06
SOUTH POOL **Collected:** 5/17/2023 **Lab ID:** 332309383-0014

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.053	0.053	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051723-07
PIRATE PARK **Collected:** 5/17/2023 **Lab ID:** 332309383-0015

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.056	0.056	µg/m³	5/24/2023 XL	5/25/2023 TH

Client Sample Description 051723-08
FIELD BLANK **Collected:** 5/17/2023 **Lab ID:** 332309383-0016

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						



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Fax: (303) 980-0089
Received: 5/24/2023 10:10 AM
Collected: 5/17/2023

Project: 123152301 SUPERIOR AIRBORNE LEAD

Analytical Results

Client Sample Description 051723-08 **Collected:** 5/17/2023 **Lab ID:** 332309383-0016
FIELD BLANK

Method	Parameter	Result	RL	Units	Prep Date & Analyst	Analysis Date & Analyst
METALS						
7300 Modified	Lead	<0.050	0.050	µg/filter	5/24/2023 XL	5/25/2023 TH

AIHA LAP, LLC-IHLAP Accredited #101650

Definitions:

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL

ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical)

D - Dilution Sample required a dilution which was used to calculate final results



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Lead Chain of Custody

EMSL Order Number / Lab Use Only

#332309383

EMSL Analytical, Inc.
6340 Castleplace Drive
Indianapolis, IN 46250

PHONE: (317) 803-2997

EMAIL: indianapolislabs@emsl.com

Customer Information Customer ID: PINY63 Company Name: Pinyon Environmental Contact Name: Tricia McCreedy Street Address: 3222 S. Vance St., Suite 200 City, State, Zip: Lakewood, CO 80227 Country: USA Phone: 303-980-5200 Email(s) for Report: mccreedy@pinyon-env.com	Billing Information Billing ID: Company Name: Billing Contact: Street Address: City, State, Zip: Same Country: Phone: Email(s) for Invoice: ap@pinyon-env.com																																																																																																									
Project Information Project Name/No: 123152301 Superior Airborne Lead Purchase Order: NA EMSL LIMS Project ID: (if applicable, EMSL will provide) US State where samples collected: CO State of Connecticut (CT) must select project location: Commercial (Taxable) ☐ Residential (Non-Taxable) ☐ Sampled By Name: Tricia McCreedy Sampled By Signature: <i>Tricia McCreedy</i> No. of Samples in Shipment:																																																																																																										
Turn-Around-Time (TAT) ☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.																																																																																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>MATRIX</th> <th>METHOD</th> <th>INSTRUMENT</th> <th>REPORTING LIMIT</th> <th>SELECTION</th> </tr> </thead> <tbody> <tr> <td rowspan="3">CHIPS ☐ % by wt. ☐ ppm (mg/kg) ☐ mg/cm² *Reporting Limit based on a minimum 0.25g sample weight. **Not appropriate for Ceramic Tiles - XRF is recommended</td> <td>SW 846-7000B</td> <td>Flame Atomic Absorption</td> <td>0.008% (80ppm)</td> <td>☐</td> </tr> <tr> <td>SW 846-6010D*</td> <td>ICP-OES</td> <td>0.0004% (4ppm)</td> <td>☐</td> </tr> <tr> <td>NIOSH 7082</td> <td>Flame Atomic Absorption</td> <td>4µg/filter</td> <td>☐</td> </tr> <tr> <td rowspan="3">AIR</td> <td>NIOSH 7300M / NIOSH 7303M</td> <td>ICP-OES</td> <td>0.5µg/filter</td> <td>☐</td> </tr> <tr> <td>NIOSH 7300M / NIOSH 7303M</td> <td>ICP-MS</td> <td>0.05µg/filter</td> <td>☒</td> </tr> <tr> <td>SW 846-7000B</td> <td>Flame Atomic Absorption</td> <td>10µg/wipe</td> <td>☐</td> </tr> <tr> <td rowspan="2">WIPE ☐ ASTM ☐ NON-ASTM *If no box is checked, non-ASTM Wipe is assumed</td> <td>SW 846-6010D*</td> <td>ICP-OES</td> <td>1.0µg/wipe</td> <td>☐</td> </tr> <tr> <td>SW 846-1311 / 7000B / SM 3111B</td> <td>Flame Atomic Absorption</td> <td>0.4 mg/L (ppm)</td> <td>☐</td> </tr> <tr> <td rowspan="2">TCLP</td> <td>SW 846-1311 / SW 846-6010D*</td> <td>ICP-OES</td> <td>0.1 mg/L (ppm)</td> <td>☐</td> </tr> <tr> <td>SW 846-1312 / 7000B / SM 3111B</td> <td>Flame Atomic Absorption</td> <td>0.4 mg/L (ppm)</td> <td>☐</td> </tr> <tr> <td rowspan="2">SPLP</td> <td>SW 846-1312 / SW 846-6010D*</td> <td>ICP-OES</td> <td>0.1 mg/L (ppm)</td> <td>☐</td> </tr> <tr> <td>22 CCR App. II, 7000B</td> <td>Flame Atomic Absorption</td> <td>40mg/kg (ppm)</td> <td>☐</td> </tr> <tr> <td rowspan="2">TTLIC</td> <td>22 CCR App. II, SW 846-6010D*</td> <td>ICP-OES</td> <td>2mg/kg (ppm)</td> <td>☐</td> </tr> <tr> <td>22 CCR App. II, 7000B</td> <td>Flame Atomic Absorption</td> <td>0.4 mg/L (ppm)</td> <td>☐</td> </tr> <tr> <td rowspan="2">STLC</td> <td>22 CCR App. II, SW 846-6010D*</td> <td>ICP-OES</td> <td>0.1 mg/L (ppm)</td> <td>☐</td> </tr> <tr> <td>SW 846-7000B</td> <td>Flame Atomic Absorption</td> <td>40mg/kg (ppm)</td> <td>☐</td> </tr> <tr> <td rowspan="2">Soil</td> <td>SW 846-6010D*</td> <td>ICP-OES</td> <td>2mg/kg (ppm)</td> <td>☐</td> </tr> <tr> <td>SM 3111B / SW 846-7000B</td> <td>Flame Atomic Absorption</td> <td>0.4 mg/L (ppm)</td> <td>☐</td> </tr> <tr> <td rowspan="2">Wastewater Unpreserved ☐ Preserved with HNO₃ ☐ PH<2</td> <td>EPA 200.7</td> <td>ICP-OES</td> <td>0.020 mg/L (ppm)</td> <td>☐</td> </tr> <tr> <td>EPA 200.5</td> <td>ICP-OES</td> <td>0.003 mg/L (ppm)</td> <td>☐</td> </tr> <tr> <td rowspan="2">Drinking Water Unpreserved ☐ Preserved with HNO₃ ☐ PH<2</td> <td>EPA 200.8</td> <td>ICP-MS</td> <td>0.001 mg/L (ppm)</td> <td>☐</td> </tr> <tr> <td>40 CFR Part 50</td> <td>ICP-OES</td> <td>12 µg/filter</td> <td>☐</td> </tr> <tr> <td colspan="2"> TSP/SPM Filter Other: ☐ </td> </tr> </tbody> </table>		MATRIX	METHOD	INSTRUMENT	REPORTING LIMIT	SELECTION	CHIPS ☐ % by wt. ☐ ppm (mg/kg) ☐ mg/cm ² *Reporting Limit based on a minimum 0.25g sample weight. **Not appropriate for Ceramic Tiles - XRF is recommended	SW 846-7000B	Flame Atomic Absorption	0.008% (80ppm)	☐	SW 846-6010D*	ICP-OES	0.0004% (4ppm)	☐	NIOSH 7082	Flame Atomic Absorption	4µg/filter	☐	AIR	NIOSH 7300M / NIOSH 7303M	ICP-OES	0.5µg/filter	☐	NIOSH 7300M / NIOSH 7303M	ICP-MS	0.05µg/filter	☒	SW 846-7000B	Flame Atomic Absorption	10µg/wipe	☐	WIPE ☐ ASTM ☐ NON-ASTM *If no box is checked, non-ASTM Wipe is assumed	SW 846-6010D*	ICP-OES	1.0µg/wipe	☐	SW 846-1311 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐	TCLP	SW 846-1311 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐	SW 846-1312 / 7000B / SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐	SPLP	SW 846-1312 / SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐	22 CCR App. II, 7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐	TTLIC	22 CCR App. II, SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐	22 CCR App. II, 7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐	STLC	22 CCR App. II, SW 846-6010D*	ICP-OES	0.1 mg/L (ppm)	☐	SW 846-7000B	Flame Atomic Absorption	40mg/kg (ppm)	☐	Soil	SW 846-6010D*	ICP-OES	2mg/kg (ppm)	☐	SM 3111B / SW 846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐	Wastewater Unpreserved ☐ Preserved with HNO ₃ ☐ PH<2	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	☐	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	☐	Drinking Water Unpreserved ☐ Preserved with HNO ₃ ☐ PH<2	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐	40 CFR Part 50	ICP-OES	12 µg/filter	☐	TSP/SPM Filter Other: ☐	
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Method of Shipment: Sample Condition Upon Receipt: Relinquished by: Date/Time: Received by: <i>Emily Mendez</i> Date/Time: 5/24/23 10:10AM Relinquished by: Date/Time: Received by:																																																																																																										

Controlled Document - COC-25 Lead R17 05/09/2022

*6010C Available Upon Request

☒ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMAIL: indianapolislaboratory@emsl.com

#332309383

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Date/Time

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