



EMSL Analytical - Industrial Hygiene

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 /

<http://www.EMSL.com>

IndustrialHygienelab@emsl.com

EMSL Order: 281804823
CustomerID: RTES49
CustomerPO: 70137-18-02
ProjectID:

Attn: **Craig Herr**
RT Environmental Services, Inc.
215 W Church Road
Suite 301
King Of Prussia, PA 19406

Phone: (610) 265-1510
Fax: (610) 265-0687
Received: 10/23/18 2:45 PM
Analysis Date: 10/24/2018
Collected: 10/23/2018

Project: **Port Richmond DEV**

Test Report: Total Dust Analysis (Gravimetric) of Air Samples via NIOSH 0500, Issue 2, 8/15/94

Sample	Location	Volume (L)	Sample Weight (mg)	Concentration (mg/m ³)	Reporting Limit (mg/m ³)	Notes
2545-UW1-10-23-18		960	<0.050	<0.052	0.052	
281804823-0001						
2545-UW2-10-23-18		960	<0.050	<0.052	0.052	
281804823-0002						
2545-DW1-10-23-18		960	<0.050	<0.052	0.052	
281804823-0003						
2545-DW2-10-23-18		960	<0.050	<0.052	0.052	
281804823-0004						

Notes: Discernable field blank not submitted with samples.
Results are not field blank corrected.

Analyst(s)

Katelynn Sweeney (4)

Scott Van Etten, CIH, Laboratory Manager
or other approved signatory

The laboratory is not responsible for data reported in mg/m³, which is dependent on volume collected by non-laboratory personnel. Reporting limits for samples without volumes, such as Field Blanks, are 0.05 mg. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical - Industrial Hygiene Cinnaminson, NJ

Initial report from 10/24/2018 12:20:28

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>cinnaminsonleadlab@emsl.com

EMSL Order: 201812365
CustomerID: RTES49
CustomerPO: 70137-18-02
ProjectID:

Attn: **Craig Herr**
RT Environmental Services, Inc.
215 W Church Road
Suite 301
King Of Prussia, PA 19406

Phone: (610) 265-1510
Fax: (610) 265-0687
Received: 10/24/18 9:00 AM
Collected: 10/23/2018

Project: **Port Richmond DEV 70137-18****Test Report: Lead in Air by Flame AAS (NIOSH 7082)***

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Volume</i>	<i>Lead Concentration</i>
2545-UW1-10-23-18	201812365-0001	10/23/2018	10/24/2018	960 L	<4.2 µg/m ³
2545-UW2-10-23-18	201812365-0002	10/23/2018	10/24/2018	960 L	<4.2 µg/m ³
2545-DW1-10-23-18	201812365-0003	10/23/2018	10/24/2018	960 L	<4.2 µg/m ³
2545-DW2-10-23-18	201812365-0004	10/23/2018	10/24/2018	960 L	<4.2 µg/m ³

Phillip Worby, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Air by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 4 µg/filter. ug/filter = µg/m³ x volume sampled (m³). OSHA PEL - 50 µg/m³. OSHA action level - 30 µg/m³. Unless otherwise noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. This report may not be reproduced except in full, without written approval by EMSL. This report relates only to those items tested. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting 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.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 10/24/2018 13:25:18


 EMSL ANALYTICAL, INC.
 LABORATORY METHODS 71114-1.0

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201812365

 EMSL ANALYTICAL, INC. 200
 ROUTE 130 NORTH
 CINNAMINSON, NJ 08077
 PHONE: (800) 220-3675
 FAX: (856) 786-5974

Company: RT Environmental Services, Inc.		EMSL-Bill to: <u>Same</u> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 215 W. Church Rd		Third Party Billing requires written authorization from third party	
City: King of Prussia	State/Province: PA	Zip/Postal Code: 19406	Country: USA
Report To (Name): Craig Herr		Telephone #: 610-265-1510	
Email Address: cherr@rtenv.com sbauman@rtenv.com		Fax #: 610-265-0687	
Project Name/Number: Port Richmond DEV / 70137-18		Purchase Order: 70137-18-02	
U.S. State Samples Taken: PA		Please Provide Results: • Fax • <u>Print</u>	
		CT Samples • Commercial/Trade • Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

 • 3 Hour | • 6 Hour | • 24 Hour | • 48 Hour | • 72 Hour | • 96 Hour | • 1 Week | • 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips • % by wt. • mg/cm ² • ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 pg/filter	XX
	NIOSH 7105	Graphite Furnace AA	0.03 pg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 pg/filter	<input type="checkbox"/>
Wipe* AS • non ASTM • *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 pg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 pg/wipe	<input type="checkbox"/>
	SW846-70006/7010	Graphite Furnace AA	0.075 pg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreser • Preserved with HNO ₃ < 2 • pH	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved • Preserved with HNO ₃ pH < 2 •	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 pg/filter	<input type="checkbox"/>
	CFR Part 50	Graphite Furnace AA	3.6 pg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: <u>Scott Bauman</u>		Signature of Sampler: <u>Scott Bauman</u>	
Sample #	Location	Volume/Area	Date/Time Sampled
1 2545-UW1-10-23-18	/	960L	10/23/18 14:00
2 2545-UW2-10-23-18			
3 2545-DW1-10-23-18			
4 2545-DW2-10-23-18			

Client Sample Ws		Total # of Samples: 4	
Relinquished (Client): <u>Scott Bauman</u>	Date: 10/23/18	Time: 14:45	
Received (Lab): <u>[Signature]</u>	Date: 10/23/18	Time: 245p	
Comments: <u>None</u>			

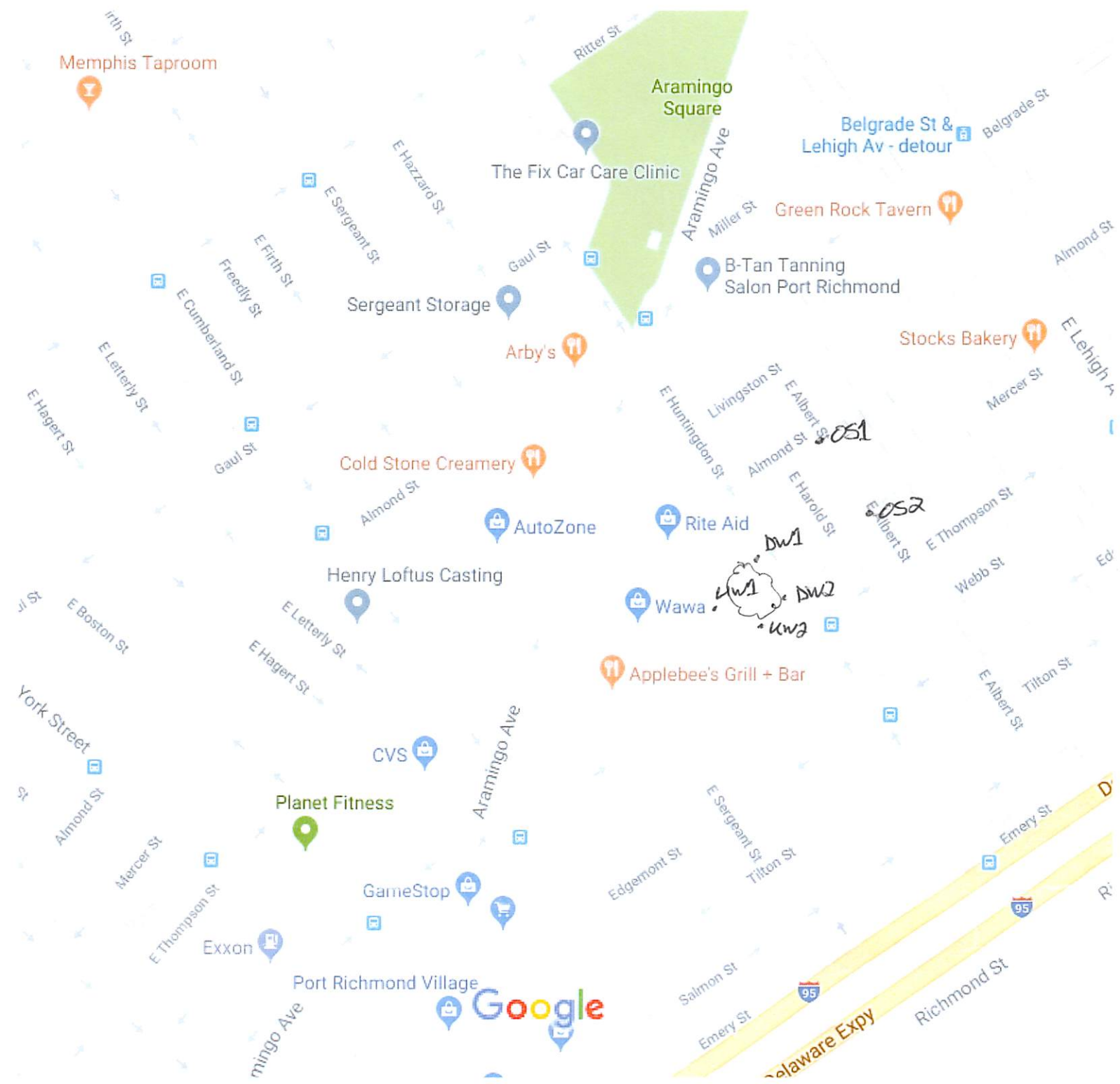
Controlled Document—Lead (Pb) COC—R6—6/12/2012

 Client is aware TAT starts
 10/24/18 9am - on

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(4RTH)

SW
0-10 mph



RT ENVIRONMENTAL SERVICES, INC.
FIELD ACTIVITY LOG

Client:	Project#: <u>70137-18</u>	Name: <u>S. Bauman</u>
Job Location:	Date: <u>10/23/18</u>	Weather:
Site Address:		
Equipment: <u>TSI Dust Trak II</u>		
FIELD ACTIVITY: <u>Calibrated in the field before taking readings</u>		

Time	OS1	OS2	Upwind
06:00	0.015	0.016	0.015
07:00	0.017	0.016	0.018
08:00	0.026	0.022	0.022
09:00	0.023	0.018	0.020
10:00	0.023	0.019	0.019
11:00	0.019	0.018	0.015
12:00	0.015	0.015	0.015
13:00	0.016	0.017	0.016
14:00	0.017	0.016	0.018

Units
mg/m³

Comments: <u>None</u>

Signature:

Scott Bauman

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