

**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](mailto:cinnaminsonleadlab@emsl.com)

EMSL Order: 201812061  
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: 10/18/18 9:00 AM  
Collected: 10/17/2018

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-UW1-10-17-18	201812061-0001	10/17/2018	10/18/2018	960 L	<4.2 µg/m <sup>3</sup>
2545-UW2-10-17-18	201812061-0002	10/17/2018	10/18/2018	960 L	<4.2 µg/m <sup>3</sup>
2545-DW1-10-17-18	201812061-0003	10/17/2018	10/18/2018	960 L	<4.2 µg/m <sup>3</sup>
2545-DW2-10-17-18	201812061-0004	10/17/2018	10/18/2018	960 L	<4.2 µg/m <sup>3</sup>

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/m<sup>3</sup> x volume sampled (m<sup>3</sup>). OSHA PEL - 50 µg/m<sup>3</sup>. OSHA action level - 30 µg/m<sup>3</sup>. 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 10/18/2018 14:51:43



## EMSL Analytical - Industrial Hygiene

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 /

<http://www.EMSL.com>

[IndustrialHygienelab@emsl.com](mailto:IndustrialHygienelab@emsl.com)

EMSL Order: 281804724  
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: 10/17/18 2:40 PM  
Analysis Date: 10/18/2018  
Collected: 10/17/2018

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 <sup>3</sup> )	Reporting Limit (mg/m <sup>3</sup> )	Notes
2545-UW1-10-17-18 281804724-0001		960	<0.050	<0.052	0.052	
2545-UW2-10-17-18 281804724-0002		960	0.12	0.12	0.052	
2545-DW1-10-17-18 281804724-0003		960	<0.050	<0.052	0.052	
2545-DW2-10-17-18 281804724-0004		960	<0.050	<0.052	0.052	

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/m<sup>3</sup>, 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 10/18/2018 09:40:54


 EMSL ANALYTICAL, INC.  
 LABORATORY, NORMETS 7/11/14-1.0

## Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201812061

 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>	
		• 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 <sup>2</sup> • 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 Unpreserved • Preserved with HNO <sub>3</sub> pH < 2 •	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 <sub>3</sub> 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: Scott Bauman

Signature of Sampler: Scott Bauman

Sample #	Location	Volume/Area	Date/Time Sampled
1 2545-UW1-10-17-18		960 L	10/17/18 14:00
2 2545-UW2-10-17-18			
3 2545-DW1-10-17-18			
4 2545-DW2-10-17-18			

Client Sample Ws

Total # of Samples: 4

Relinquished (Client):

Date:

10/17/18

Time:

14:20

Received (Lab):

Date:

10/17/18

Time:

249m

Comments:

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

Client is aware he will receive results tomorrow as it is past the cutoff time for Rushes. 10/17/18-cc



06185179

## Chain of Custody

EMSL Order Number (Lab Use Only):



**EMSL ANALYTICAL, INC.**  
**LABORATORY • PRODUCTS • TRAINING**

Report To Contact Name: Craig Herr	Bill To Company: RT Env.	Sampled By (Signature): <i>Scott Bauman</i>
Company Name: RT Environmental Services, Inc.	Attention To: Accounts Payable	Number of Samples in Shipment: 4
Address 1: 215 W. Church Rd	Address 1: 215 W. Church Rd	Date of Shipment: 10/17/18
Address 2: King of Prussia, PA 19406	Address 2: King of Prussia, PA 19406	U.S. State where Samples Collected: PA
Phone : 610-265-1510	Phone: 610-265-1510	Purchase Order: 70137-18-02
Fax :	Fax:	
Email Results To: cherr@rtenv.com & sbauman@rtenv.com	Project Name: Port Richmond DEV	

Turnaround Time – Please Check: Please Note Standard TAT is 2 Week.					Media Type:	
2 Week	1 Week	4 Day	3 Day	2 Day	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <i>chr</i>
						Manufacturer/Part #:
						Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
2545-UW1-10-17-18	Air	TP/NIOSH 0500	960L	10/17/18 14:20		
2545-UW2-10-17-18						
2545-DW1-10-17-18						
2545-DW2-10-17-18						

**Note:** Most NIOSH and OSHA methods require field blanks. It is the IH field sampler's responsibility to submit the proper number of field blanks and duplicates.

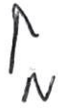
Released By	Date	Received By	Date
Scott Bauer	10/17/18	[Signature]	10/17/18 246

Comments: None



10/17/18

0-5mph until 08:30 → 5-10mph the rest of the day



**RT ENVIRONMENTAL SERVICES, INC.**  
**FIELD ACTIVITY LOG**

Client:	Project#: 70137-18	Name: S. Bauman
Job Location:	Date: 10/17/18	Weather:
Site Address:		
Equipment: TSI DustTrak II		

**FIELD ACTIVITY:**

Time	OS1	OS2	Upwind
06:00	0.018	0.019	0.018
07:00	0.021	0.018	0.021
08:00	0.023	0.019	0.022
09:00	0.023	0.017	0.023
10:00	0.018	0.016	0.016
11:00	0.018	0.013	0.028
12:00	0.016	0.019	0.014
13:00	0.018	0.019	0.013
14:00	0.023	0.018	0.018

Units in  $\text{mg}/\text{m}^3$

\* Concentration readings obtained using a TSI DustTrak II

Comments: <sup>sub</sup> ~~above~~ "Upwind" sample location was upwind of the soil pile that was on the parking lot as opposed to UWS sample location which was downwind, see page four

Signature: Scott Bauman