

**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: 201812597  
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: 10/30/18 9:00 AM  
Collected: 10/30/2018

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>
2501-UW1-10-29-18	201812597-0001	10/30/2018	10/30/2018	960 L	<4.2 µg/m <sup>3</sup>
2507-UW2-10-29-18	201812597-0002	10/30/2018	10/30/2018	960 L	<4.2 µg/m <sup>3</sup>
2501-DW1-10-29-18	201812597-0003	10/30/2018	10/30/2018	960 L	<4.2 µg/m <sup>3</sup>
2507-DW2-10-29-18	201812597-0004	10/30/2018	10/30/2018	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 10/30/2018 12:57:43



# 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: 281804954  
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: 10/30/18 8:00 AM  
Analysis Date: 10/30/2018  
Collected: 10/30/2018

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
2501-UW1-10-29-18 281804954-0001		960	<0.050	<0.052	0.052	
2507-UW2-10-29-18 281804954-0002		960	<0.050	<0.052	0.052	
2501-DW1-10-29-18 281804954-0003		960	<0.050	<0.052	0.052	
2507-DW2-10-29-18 281804954-0004		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 10/30/2018 12:33:41

**EMSL ANALYTICAL, INC.**  
200 ROUTE 130 NORTH  
CINNAMINSON, NJ 08077  
PHONE: (856) 858-4800  
FAX: (856) 858-3502



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

## Chain of Custody

**EMSL Order Number (Lab Use Only):**

Report To Contact Name: Craig Herr	Bill To Company: RT Env.	Sampled By (Signature): <i>S. Bauman</i>
Company Name: RT Environmental Services, Inc.	Attention To: Accounts Payable	Number of Samples In Shipment: 7
Address 1: 215 W. Church Rd	Address 1: 215 W. Church Rd	Date of Shipment: 10/30/13
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	

[illegible]

**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 Berman	10/30/18	DB	10/30/18

Comments: None



EMSL ANALYTICAL, INC.  
LABORATORY, MONROE, LA 70114-1100

# Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201812597

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

<b>Company:</b> RT Environmental Services, Inc.		<b>EMSL-Bill</b> to: <u>Same</u> Different If Bill to is Different note instructions in Comments**	
<b>Street:</b> 215 W. Church Rd		Third Party Billing requires written authorization from third party	
<b>City:</b> King of Prussia	<b>State/Province:</b> PA	<b>Zip/Postal Code:</b> 19406	<b>Country:</b> USA
<b>Report To (Name):</b> Craig Herr		<b>Telephone #:</b> 610-265-1510	
<b>Email Address:</b> cherr@rtenv.com sbauman@rtenv.com		<b>Fax #:</b> 610-265-0687	<b>Purchase Order:</b>
<b>Project Name/Number:</b> Port Richmond DEV / 70137-18		<b>Please Provide Results:</b> • Fax • <u>Em</u> 70137-18-02	
<b>U.S. State Samples Taken:</b> PA		<b>CT Samples • Commercial/Industrial • Residential/Tax Exempt</b>	
<b>Turnaround Time (TAT) Options* - Please Check</b>			
• 3 Hour   • <u>6 Hour</u>   • 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			
<b>Matrix</b>	<b>Method</b>	<b>Instrument</b>	<b>Reporting Limit</b>
Chips • % by wt. • mg/cm <sup>2</sup> • ppm	SW846-7000B	Flame Atomic Absorption	0.01%
Air	NIOSH 7082	Flame Atomic Absorption	4 pg/filter
	NIOSH 7105	Graphite Furnace AA	0.03 pg/filter
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 pg/filter
Wipe* AS • non ASTM • *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 pg/wipe
	SW846-6010B or C	ICP-AES	1.0 pg/wipe
	SW846-70006/7010	Graphite Furnace AA	0.075 pg/wipe
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)
Wastewater Unpreserved • Preserved with HNO <sub>3</sub> pH < 2 •	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	200.7	ICP-AES	0.020 mg/L (ppm)
Drinking Water Unpreserved • Preserved with HNO <sub>3</sub> pH < 2 •	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 pg/filter
	CFR Part 50	Graphite Furnace AA	3.6 pg/filter
Other:			
<b>Name of Sampler:</b> Scott Bauman		<b>Signature of Sampler:</b> Scott Bauman	
<b>Sample #</b>	<b>Location</b>	<b>Volume/Area</b>	<b>Date/Time Sampled</b>
1 2501-UW1-10-29-18		960L	10/30/18 04:00
2 2507-LW2-10-29-18			
3 2501-DW1-10-29-18			
4 2507-DW2-10-29-18			
<b>Client Sample Ws</b>		<b>Total # of Samples:</b> 4	
<b>Relinquished (Client):</b> Scott Bauman	<b>Date:</b> 10/30/18	<b>Time:</b> 05:30	
<b>Received (Lab):</b> Cereonk	<b>Date:</b> 10/30/18	<b>Time:</b> 9am	Drop box
<b>Comments:</b> None			

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

## RT ENVIRONMENTAL SERVICES, INC.

## FIELD ACTIVITY LOG

Client:	Project#: 70137-18	Name: S. Brulman
Job Location:	Date: 10/29/18	Weather:
Site Address:		
Equipment: TSI DustTrak II		
FIELD ACTIVITY: Calibrated in the field before use		

Time	OS1	OS2	Upwind
20:00	0.006	0.007	0.008
21:00	0.004	0.006	0.007
22:00	0.005	0.005	0.007
23:00	0.006	0.005	0.005
00:00	0.005	0.004	0.004
01:00	0.004	0.006	0.006
02:00	0.005	0.005	0.005
03:00	0.004	0.004	0.006
04:00	0.004	0.004	0.004

Unitsmg/m<sup>3</sup>

Comments: None

Signature: S. BrulmanPage 3 of 6



WSW

0-10 mph

