

**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: 201812128
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: 10/19/18 9:00 AM
Collected: 10/18/2018

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-UW1-10-18-18	201812128-0001	10/18/2018	10/19/2018	960 L	<4.2 µg/m ³
2545-UW2-10-18-18	201812128-0002	10/18/2018	10/19/2018	960 L	<4.2 µg/m ³
2545-DW1-10-18-18	201812128-0003	10/18/2018	10/19/2018	960 L	<4.2 µg/m ³
2545-DW2-10-18-18	201812128-0004	10/18/2018	10/19/2018	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 10/19/2018 15:33:41



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: 281804740
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 2:30 PM
Analysis Date: 10/19/2018
Collected: 10/18/2018

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-UW1-10-18-18 281804740-0001		960	<0.050	<0.052	0.052	
2545-UW2-10-18-18 281804740-0002		960	0.057	0.059	0.052	
2545-DW1-10-18-18 281804740-0003		960	<0.050	<0.052	0.052	
2545-DW2-10-18-18 281804740-0004		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/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 10/19/2018 14:46:21

EMSL ANALYTICAL, INC.
LABORATORY, NORTON, MA 01861-1114

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201812128

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 If Bill to is Different note instructions in Comments**	
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>Enl</u> • Residential/Tax Exempt	
Turnaround Time (TAT) Options* - Please Check			
• 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			
Matrix	Method	Instrument	Reporting Limit
Chips • % by wt. • mg/cm ² • 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 ₃ < 2 • pH	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 ₃ 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:			
Name of Sampler: <u>Scott Bauman</u>		Signature of Sampler: <u>Scott Bauman</u>	
Sample #	Location	Volume/Area	Date/Time Sampled
1 2545-UW1-10-18-18	/	960L	10/18/18 14:00
2 2545-UW2-10-18-18		I	I
3 2545-DW1-10-18-18			
4 2545-DW2-10-18-18			
Client Sample Ws -			
Relinquished (Client): <u>Scott Bauman</u>		Total # of Samples: <u>4</u>	
Date: <u>10/18/18</u>	Time: <u>14:35</u>		
Received (Lab): <u>CW</u>	Date: <u>10-16-18</u>	Time: <u>2:30</u>	
Comments: <u>None</u>			

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

Client is aware TAT will start
10/19/18 8am -ck

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody
Emsl Order Number (Lab Use Only):

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

Report To Contact Name: Craig Herr	Bill To Company: RT Env.	Sampled By (Signature): <i>Craig Herr</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: 10/18/18
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)	Manufacturer/Part #:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> <i>C</i>	Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
2545-UW1-10-18-18	Am	TP/ND5H 0500	960L	10/18/18 14:00		
2545-UW2-10-18-18						
2545-DW1-10-18-18						
2545-DW2-10-18-18						

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 Barron	10/15/18	[Signature]	10-18-18 2:30pm

Comments: None

RT ENVIRONMENTAL SERVICES, INC.

FIELD ACTIVITY LOG

Client:	Project#: 70137-16	Name: S. Bauman
Job Location:	Date: 10/18/16	Weather:
Site Address:		
Equipment: OSI Dusttrak II		
FIELD ACTIVITY: Calibrated before recording concentration values		

Time	OS1	OS2	Upwind
06:00	0.007	0.006	0.008
07:00	0.006	0.008	0.006
08:00	0.005	0.004	0.007
09:00	0.006	0.006	0.008
10:00	0.005	0.006	0.007
11:00	0.004	0.005	0.006
12:00	0.005	0.004	0.004
13:00	0.006	0.007	0.007
14:00	0.005	0.006	0.006

Units
mg/m³

Comments: None

Signature: S. Bauman

WVW
5-15mph

