

**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: 201812668
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: 10/31/18 9:00 AM
Collected: 10/31/2018

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-UW1-10-30-18	201812668-0001	10/31/2018	10/31/2018	960 L	<4.2 µg/m ³
2507-UW2-10-30-18	201812668-0002	10/31/2018	10/31/2018	960 L	<4.2 µg/m ³
2501-DW1-10-30-18	201812668-0003	10/31/2018	10/31/2018	960 L	<4.2 µg/m ³
2507-DW2-10-30-18	201812668-0004	10/31/2018	10/31/2018	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 10/31/2018 15:16:00



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: 281804858
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: 10/31/18 8:00 AM
Analysis Date: 10/31/2018
Collected: 10/31/2018

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
2501-UW1-10-30-18 281804858-0001		960	<0.050	<0.052	0.052	
2507-UW2-10-30-18 281804858-0002		960	<0.050	<0.052	0.052	
2501-DW1-10-30-18 281804858-0003		960	<0.050	<0.052	0.052	
2507-DW2-10-30-18 281804858-0004		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 10/31/2018 15:55:35


 EMSL ANALYTICAL, INC.
 LABORATORY MONITORING SYSTEMS

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201812668

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

Company: RT Environmental Services, Inc. Street: 215 W. Church Rd City: King of Prussia State/Province: PA Report To (Name): Craig Herr Email Address: cherr@rtenv.com sbauman@rtenv.com Project Name/Number: Port Richmond DEV / 70137-18 U.S. State Samples Taken: PA		EMSL-Bill to: <u>Same</u> Different <small>If Bill to is Different note instructions in Comments**</small> Third Party Billing requires written authorization from third party Zip/Postal Code: 19406 Country: USA Telephone #: 610-265-1510 Fax #: 610-265-0687 Purchase Order: 70137-18-02 Please Provide Results: • Fax • <u>Print</u> C/Samples • Commercial/Industrial • 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 <small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
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 • <small>*if no box is checked, non-ASTM Wipe is assumed</small>	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 HNO3 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 HNO3 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 2507-UW1-10-30-18		960L	10/31/18 04:00	
2 2507-UW2-10-30-18				
3 2501-DW1-10-30-18				
4 2507-DW2-10-30-18				
Client Sample Ws		Total # of Samples: 4		
Relinquished (Client): Scott Bauman	Date: 10/31/18	Time: 05:05		
Received (Lab): Chudink	Date: 10/31/18	Time: 9am	Dropbox	
Comments: None				

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



EMSL ANALYTICAL, INC.
LABORATORY PRODUCT TRAINING

-281804858

Industrial Hygiene

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>[Signature]</i>
Company Name: RT Environmental Services, Inc.	Attention To: Accounts Payable	Number of Samples In Shipment: <i>4</i>
Address 1: 215 W. Church Rd	Address 1: 215 W. Church Rd	Date of Shipment: <i>10/31/18</i>
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: <i>[blank]</i>	Fax: <i>[blank]</i>	
Email Results To: <i>cherr@rtenv.com & sbauman@rtenv.com</i>	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	1 Day	Other (Call Lab)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> 6 hr
Manufacturer/Part #:					Lot #:

Sample ID	Media	Analyte / Method	Volume	Sample Date/Time	Location	Comments
2501-LW1-10-30-B	AGS	TP / NIOSH 0500	960L	10/31/18 04:00	/	/
2507-LW2-10-30-B	/	/	/	/	/	/
2501-LW1-10-30-B	/	/	/	/	/	/
2507-LW2-10-30-B	/	/	/	/	/	/
<div style="text-align: right;"> RECEIVED EMSL CINNAMINSON, NJ 2018 OCT 31 A </div>						

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: <i>[Signature]</i>	Date: <i>10/31/18</i>	Received By: <i>[Signature]</i>	Date: <i>10/31/18</i>

Comments: *None*

RT ENVIRONMENTAL SERVICES, INC.
FIELD ACTIVITY LOG

Client:	Project#: 70137-18	Name: S. Bauman
Job Location:	Date: 10/30/18	Weather:
Site Address:		
Equipment: TSI Dust Trak II		
FIELD ACTIVITY: Calibrated in the field before use		

Time	OS1	OS2	Upwind
20:00	0.023	0.021	0.023
21:00	0.031	0.030	0.032
22:00	0.034	0.034	0.032
23:00	0.036	0.036	0.036
00:00	0.041	0.042	0.040
01:00	0.042	0.041	0.041
02:00	0.046	0.046	0.047
03:00	0.047	0.048	0.047
04:00	0.048	0.047	0.046

Units

mg/m³

Comments: None

Signature: Scott Bauman

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20:00-22:00 SW 0-5 mph
22:00-04:00 light and variable

10/30/18
Day_53

