

**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: 201812466
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: 10/26/18 9:00 AM
Collected: 10/25/2018

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-UW1-10-25-18 | 201812466-0001 | 10/25/2018 | 10/26/2018 | 960 L | <4.2 µg/m ³ |
| 2545-UW2-10-25-18 | 201812466-0002 | 10/25/2018 | 10/26/2018 | 960 L | <4.2 µg/m ³ |
| 2545-DW1-10-25-18 | 201812466-0003 | 10/25/2018 | 10/26/2018 | 960 L | <4.2 µg/m ³ |
| 2545-DW2-10-25-18 | 201812466-0004 | 10/25/2018 | 10/26/2018 | 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 10/26/2018 13:20:12



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: 281804897
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: 10/25/18 2:30 PM
Analysis Date: 10/26/2018
Collected: 10/25/2018

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-UW1-10-25-18 281804897-0001 | | 960 | <0.050 | <0.052 | 0.052 | |
| 2545-UW2-10-25-18 281804897-0002 | | 960 | <0.050 | <0.052 | 0.052 | |
| 2545-DW1-10-25-18 281804897-0003 | | 960 | <0.050 | <0.052 | 0.052 | |
| 2545-DW2-10-25-18 281804897-0004 | | 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 10/26/2018 13:02:11


 EMSL ANALYTICAL, INC.
 LABORATORY, MCMCT5-71114-1.0

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201812466

 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>Em</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 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 HNO3 < 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 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 2545-UW1-10-25-18 | / | 960L | 10/25/18 14:00 |
| 2 2545-UW2-10-25-18 | | I | I |
| 3 2545-DW1-10-25-18 | | I | I |
| 4 2545-DW2-10-25-18 | | I | I |
| | | | |
| | | | |

Client Sample Ws - I Total # of Samples: 4

 Relinquished (Client): Scott Bauman Date: 10/25/18 Time: 14:30

 Received (Lab): [Signature] Date: 10/25/18 Time: 230r

Comments: None Client is aware TAT begins on 10/24/18 @ 9am 10/25/18 - ok

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

4/24

10/25/18

NW
2-8 mph

N



RT ENVIRONMENTAL SERVICES, INC.
FIELD ACTIVITY LOG

| | | |
|--|--------------------|----------|
| Client: | Project#: 70137-18 | Name: |
| Job Location: | Date: 10/25/18 | Weather: |
| Site Address: | | |
| Equipment: TSI Dust Trak II | | |
| FIELD ACTIVITY: Calibrated in the field before use | | |

| Time | OS1 | OS2 | Upwind |
|-------|-------|-------|--------|
| 06:00 | 0.010 | 0.009 | 0.011 |
| 07:00 | 0.011 | 0.010 | 0.010 |
| 08:00 | 0.012 | 0.011 | 0.011 |
| 09:00 | 0.010 | 0.012 | 0.012 |
| 10:00 | 0.012 | 0.012 | 0.012 |
| 11:00 | 0.012 | 0.013 | 0.011 |
| 12:00 | 0.013 | 0.010 | 0.010 |
| 13:00 | 0.008 | 0.009 | 0.012 |
| 14:00 | 0.012 | 0.012 | 0.011 |

units
mg/m³

Comments: None

Signature: Scott Bauer

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