# LEAD IN POTABLE WATER SCREENING REPORT

| | |
|---|---|
| INVESTIGATION FOR: | Gerry Mihalitsianos<br>Hasbrouck Heights BOE<br>379 Boulevard<br>Hasbrouck Heights, NJ 07604 |
| SITE INVESTIGATED: | Franklin Gym<br>379 Boulevard<br>Hasbrouck Heights, NJ 07604 |
| ASSESSMENT BY: | Ross Hernandez<br>Omega Environmental Services, Inc.<br>280 Huyler Street<br>South Hackensack, NJ 07606 |
| INVESTIGATION CONDUCTED: | 2/2/2022 |
| DATE OF REPORT: | 3/18/2022 |

(Omega Project # 22-1068)



*Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201)342-5412*

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**EXECUTIVE SUMMARY:**

The Hasbrouck Heights Board of Education requested representative lead in water testing of potable water outlets at Franklin Gym located at 379 Boulevard, Hasbrouck Heights, NJ.

*Previous Testing (4/26/17)*

On April 26, 2017, Omega performed a full testing of all potable outlets. First draw and flush samples (30 second) were collected at twenty-four (24) outlets. While there were sample results above 15 ppb in the High School and Middle School, the two (2) outlets tested in Franklin Gym were below 15 ppb.

See report dated 5/17/2017.

*Current Testing (2/2/2022)*

In order to comply with the NJDEP *Lead in Drinking Water at Schools Facilities (April 2021),* a full testing of all potable outlets was performed on February 2, 2022.

Reportedly the outlets were flushed the day prior to sampling.

First draw and flush samples (30 second) were collected at one (1) outlets.

**Results of all first draw and flush samples analyzed were below the Lead and Copper Rule action level of 15 µg/L.**

See Section 3 Discussion of Results

*Applicable Corrective Action*

No corrective action is recommended at this time.

*Water Management/Plumbing Plan*

A Lead in Water Sampling Plan Franklin Gym is included in the Sampling Plan for the High School and Middle School.

## 1 RESULTS TABLE:

| Sample # | Type | Location | 1st draw (FD) or flush (FL) | Lead | |
|---|---|---|---|---|---|
| | | | | Results (µg/L) | LCR Action Level (1) (µg/L) |
| N/A | Sink | Gym Sink | N/A | N/A | 15 |
| N/A | Sink | Gym Sink | N/A | N/A | 15 |
| N/A | Ice Machine | Gym Ice Machine | N/A | N/A | 15 |
| N/A | Ice Machine | Gym Ice Machine | N/A | N/A | 15 |
| Franklin 01 FD | Bottle Fill | Bottle Fill Station in Franklin Gym | FD | ND | 15 |
| Franklin 02 FL | Bottle Fill | Bottle Fill Station in Franklin Gym | FL | ND | 15 |
| Franklin 03 Field Blank | Field Blank | Field Blank | BL | ND | --- |

(1) EPA Lead in Copper Rule (1991) Action Level for water suppliers (municipalities and private wells) and March 2016 Newark Public Schools Lead Water Testing Sampling Plan.
FD – First Draw Sample
FL – Flush Sample (30 sec)
NA – Not Analyzed


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## 2 SAMPLING METHODOLOGY:

(First Draw Samples) - Without allowing any water to spill until sample collection, samples were collected with a relatively slow flow rate in 250 mL bottles prepared with Nitric Acid ($HNO_3$) as a preservative.

(Flush Samples) – After the collection of first draw samples the water was allowed to flow at a relatively slow rate for thirty second to flush the fixture and close piping. The flush samples are intended to test the plumbing further upstream from the fixture (behind walls).

The samples were packaged in a cooler and shipped to EMSL Analytical, Inc. in Cinnaminson, NJ for total lead in potable water analysis (method E200.8 IOC).

## 3 DISCUSSION OF RESULTS:

Results of all first draw and flush samples analyzed were below the Lead and Copper Rule action level of 15 µg/L.

## 4 RECOMMENDATIONS:

*Short term*:

- No corrective action is recommended at this time.

*Long Term*:

- If any outlets are not regularly used, or after extended periods without use (such as winter and summer breaks) flush all outlets for a few minutes prior to normal use.
- Repeat full building testing on an annual basis. Generally, this should be performed in August prior to the start of the school season.

Contact Omega Environmental to discuss specific recommendations.

# A. Lead in Water Laboratory Reports



*Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201)342-5412*

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: **Lab** 3/12/2022
**Omega Environmental Services**
**280 Huyler Street**
**South Hackensack, NJ 07606**

Phone: (201) 489-8700
Fax: (201) 489-8797

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 2/23/2022. The results are tabulated on the attached data pages for the following client designated project:

**22-1068 Hasbrouck Heights BOE-Franklin Gym**

The reference number for these samples is EMSL Order #012203001. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Owen McKenna, Chemistry Laboratory Director

The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 858-4571
http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order: 012203001
CustomerID: OMEG50
CustomerPO:
ProjectID:

Attn: Lab
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

Phone: (201) 489-8700
Fax: (201) 489-8797
Received: 2/23/2022 09:00 AM

Project: **22-1068 Hasbrouck Heights BOE-Franklin Gym**

## Analytical Results

| | | | |
|---|---|---|---|
| ***Client Sample Description*** | Franklin 01 FD<br>Bottle Fill Station in Franjklin Gym | ***Collected:*** | 2/2/2022<br>10:25:00 AM |
| | | ***Lab ID:*** | *012203001-0001* |

| *Method* | *Parameter* | *Result* | *RL* | *Units* | *Prep Date & Analyst* | | *Analysis Date & Analyst* | |
|---|---|---|---|---|---|---|---|---|
| **METALS** | | | | | | | | |
| 200.8 | Lead | ND | 1.00 | µg/L | 3/10/2022 | JM | 3/11/2022 08:38 | VD |

| | | | |
|---|---|---|---|
| ***Client Sample Description*** | Franklin 01 FL<br>Bottle Fill Station in Franjklin Gym | ***Collected:*** | 2/2/2022<br>10:26:00 AM |
| | | ***Lab ID:*** | *012203001-0002* |

| *Method* | *Parameter* | *Result* | *RL* | *Units* | *Prep Date & Analyst* | | *Analysis Date & Analyst* | |
|---|---|---|---|---|---|---|---|---|
| **METALS** | | | | | | | | |
| 200.8 | Lead | ND | 1.00 | µg/L | 3/10/2022 | JM | 3/11/2022 08:47 | VD |

| | | | |
|---|---|---|---|
| ***Client Sample Description*** | Franklin 03 Field Blank<br>Field Blank | ***Collected:*** | 2/2/2022<br>12:35:00 AM |
| | | ***Lab ID:*** | *012203001-0003* |

| *Method* | *Parameter* | *Result* | *RL* | *Units* | *Prep Date & Analyst* | | *Analysis Date & Analyst* | |
|---|---|---|---|---|---|---|---|---|
| **METALS** | | | | | | | | |
| 200.8 | Lead | ND | 1.00 | µg/L | 3/10/2022 | JM | 3/11/2022 02:38 | VD |

**Definitions:**
MDL - method detection limit
J - Result was below the reporting limit, but at or above the MDL
ND - indicates that the analyte was not detected at the reporting limit
RL - Reporting Limit (Analytical)
D - Dilution Sample required a dilution which was used to calculate final results

OrderID: 012203001

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

# Lead Chain of Custody

EMSL Order Number / Lab Use Only: 012203001

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: CinnaminsonLeadLab@emsl.com

| Customer Information | | Billing Information | |
|---|---|---|---|
| Customer ID: | | Billing ID: | |
| Company Name: | Omega Environmental Services | Company Name: | Omega Environmental Services |
| Contact Name: | | Billing Contact: | |
| Street Address: | 280 Huyler Street | Street Address: | 280 Huyler Street |
| City, State, Zip: | South Hackensack, NJ 07606 | Country: USA | South Hackensack, NJ 07606 Country: USA |
| Phone: | 201-489-8700 | Phone: | 201-489-8700 |
| Email(s) for Report: | lab@omega-env.com | Email(s) for Invoice: | ap@omega-env.com |

**Project Information**

Project Name/No: 22-1068 Hasbrouck Heights BOE- Franklin Gym
Purchase Order:
EMSL LIMS Project ID: (If applicable, EMSL will provide)
US State where samples collected: NJ
State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)
Sampled By Name: Ross Hernandez
Sampled By Signature:
No. of Samples in Shipment: 3

**Turn-Around-Time (TAT)**

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☑ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

| MATRIX | METHOD | INSTRUMENT | REPORTING LIMIT | SELECTION |
|---|---|---|---|---|
| CHIPS ☐ % by wt. ☐ ppm (mg/kg) ☐ mg/cm² | SW 846-7000B | Flame Atomic Absorption | 0.008% (80ppm) | ☐ |
| *Reporting Limit based on a minimum 0.25g sample weight | SW 846-6010D* | ICP-OES | 0.0004% (4ppm) | ☐ |
| AIR | NIOSH 7082 | Flame Atomic Absorption | 4µg/filter | ☐ |
| | NIOSH 7300M / NIOSH 7303M | ICP-OES | 0.5µg/filter | ☐ |
| | NIOSH 7300M / NIOSH 7303M | ICP-MS | 0.05µg/filter | ☐ |
| WIPE ☐ ASTM ☐ NON-ASTM | SW 846-7000B | Flame Atomic Absorption | 10µg/wipe | ☐ |
| *If no box is checked, non-ASTM Wipe is assumed | SW 846-6010D* | ICP-OES | 1.0µg/wipe | ☐ |
| TCLP | SW 846-1311 / 7000B / SM 3111B | Flame Atomic Absorption | 0.4 mg/L (ppm) | ☐ |
| | SW 846-1311 / SW 846-6010D* | ICP-OES | 0.1 mg/L (ppm) | ☐ |
| SPLP | SW 846-1312 / 7000B / SM 3111B | Flame Atomic Absorption | 0.4 mg/L (ppm) | ☐ |
| | SW 846-1312 / SW 846-6010D* | ICP-OES | 0.1 mg/L (ppm) | ☐ |
| TTLC | 22 CCR App. II, 7000B | Flame Atomic Absorption | 40mg/kg (ppm) | ☐ |
| | 22 CCR App. II, SW 846-6010D* | ICP-OES | 2mg/kg (ppm) | ☐ |
| STLC | 22 CCR App. II, 7000B | Flame Atomic Absorption | 0.4 mg/L (ppm) | ☐ |
| | 22 CCR App. II, SW 846-6010D* | ICP-OES | 0.1 mg/L (ppm) | ☐ |
| Soil | SW 846-7000B | Flame Atomic Absorption | 40mg/kg (ppm) | ☐ |
| | SW 846-6010D* | ICP-OES | 2mg/kg (ppm) | ☐ |
| Wastewater | SM 3111B / SW 846-7000B | Flame Atomic Absorption | 0.4 mg/L (ppm) | ☐ |
| Unpreserved ☐ / Preserved with HNO3 ☐ PH<2 | EPA 200.7 | ICP-OES | 0.020 mg/L (ppm) | ☐ |
| Drinking Water | EPA 200.5 | ICP-OES | 0.003 mg/L (ppm) | ☐ |
| Unpreserved ☐ / Preserved with HNO3 ☑ PH<2 | EPA 200.8 | ICP-MS | 0.001 mg/L (ppm) | ☑ |
| TSP/SPM Filter | 40 CFR Part 50 | ICP-OES | 12 µg/filter | ☐ |
| Other: | | | | ☐ |

| Sample Number | Sample Location | Volume / Area | Date / Time Sampled |
|---|---|---|---|
| Samples begin on the following page. | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Method of Shipment: Pick up
Sample Condition Upon Receipt:

| Relinquished by: | Date/Time: | Received by: | Date/Time |
|---|---|---|---|
| Ross Hernandez | 2/9/22 14:30 | CP 2/22/22 8pm | |
| Relinquished by: | Date/Time: | Received by: | Date/Time |
| | | Evelyn 2/23/22 9am | |

Controlled Document - COC-23 Lead R18 4/19/2021

*6010C Available Upon Request

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

9g 1 of 2.

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

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012203001

# Lead Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: CinnaminsonLeadLab@emsl.com

OrderID: 012203001

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

| Sample Number | Sample Location | Volume / Area | Date / Time Sampled | Notes |
|---|---|---|---|---|
| Franklin 01FD | Bottle Fill Station in Franklin Gym | 250 mL | 2/2/22 10:25 | |
| Franklin 02FL. | ↓ | 250 mL | 10:26. | |
| Franklin 03 Field Blank | Field Blank | 250 mL | ↓ 12:35 | |
| | | 250 mL | | |
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| | | 250 mL | | |

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| | | | | |
|---|---|---|---|---|
| Method of Shipment: Pick up | | Sample Condition Upon Receipt: | | |
| Relinquished by: Ross Hernandez. | Date/Time: 2/2/22. 14:00 | Received by: | Date/Time | |
| Relinquished by: | Date/Time: | Received by: | Date/Time | |

Pg 2 of 2