

CERTIFICATE OF ANALYSIS

Client: Coastal Environmental  
721 Flittertown Rd  
Hammonton NJ 08037

Report Date: 11/11/2021  
Report No.: 647168 - Lead Water  
Project: BOE Pb Requirement; Seneca HS  
Project No.:

Client: COA212

LEAD WATER SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7313703                      **Location:** Boiler Rm Faucet                      **Result(ppb):** 1.00  
**Client No.:** 1A-SEN-POE                      \* Sample acidified to pH <2.

**Lab No.:** 7313704                      **Location:** Boiler Rm Slop Sink                      **Result(ppb):** <1.00  
**Client No.:** 1-SEN-POU                      \* Sample acidified to pH <2.

**Lab No.:** 7313705                      **Location:** F104 Sink                      **Result(ppb):** <1.00  
**Client No.:** 2-SEN-DW                      \* Sample acidified to pH <2.

**Lab No.:** 7313706                      **Location:** F108 Sink                      **Result(ppb):** <1.00  
**Client No.:** 3-SEN-DW                      \* Sample acidified to pH <2.

**Lab No.:** 7313707                      **Location:** F114 Sink                      **Result(ppb):** 1.10  
**Client No.:** 4-SEN-DW                      \* Sample acidified to pH <2.

**Lab No.:** 7313708                      **Location:** F109-2 Sink Dining Rm                      **Result(ppb):** <1.00  
**Client No.:** 6-SEN-TL                      \* Sample acidified to pH <2.


**Lab No.:** 7313709                      **Location:** Cafeteria (L) BF                      **Result(ppb):** <1.00  
**Client No.:** 7-SEN-WC                      \* Sample acidified to pH <2.


**Lab No.:** 7313710                      **Location:** Cafeteria (R) BF                      **Result(ppb):** <1.00  
**Client No.:** 8-SEN-WC                      \* Sample acidified to pH <2.

**Lab No.:** 7313711                      **Location:** Kitchen Serv Line (R) Sink                      **Result(ppb):** 1.10  
**Client No.:** 10-SEN-FP                      \* Sample acidified to pH <2.

**Lab No.:** 7313712                      **Location:** Kitchen Serv Line (C/R) Sink                      **Result(ppb):** <1.00  
**Client No.:** 11-SEN-FP                      \* Sample acidified to pH <2.

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Signature:   
Analyst: Mark Stewart

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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**Lab No.:** 7313713                      **Location:** Kitchen Serv Line (C/L) Sink                      **Result(ppb):** 15.0  
**Client No.:** 11.1-SEN-FP                      \* Sample acidified to pH <2.

**Lab No.:** 7313714                      **Location:** Kitchen Serv Line (L) Sink                      **Result(ppb):** 1.20  
**Client No.:** 12-SEN-FP                      \* Sample acidified to pH <2.

**Lab No.:** 7313715                      **Location:** Kitchen Stove Area Kettle Hose                      **Result(ppb):** 10.9  
**Client No.:** 13-SEN-FP                      \* Sample acidified to pH <2.

**Lab No.:** 7313716                      **Location:** Kitchen CTR Food Prep Sink                      **Result(ppb):** <1.00  
**Client No.:** 14-SEN-FP                      \* Sample acidified to pH <2.

**Lab No.:** 7313717                      **Location:** Kitchen L Coffee Maker                      **Result(ppb):** <1.00  
**Client No.:** 15-SEN-FP                      \* Sample acidified to pH <2.

**Lab No.:** 7313718                      **Location:** Kitchen R Coffee Maker                      **Result(ppb):** <1.00  
**Client No.:** 15A-SEN-FP                      \* Sample acidified to pH <2.


**Lab No.:** 7313719                      **Location:** Kitchen Food Prep Sink                      **Result(ppb):** <1.00  
**Client No.:** 16-SEN-FP                      \* Sample acidified to pH <2.

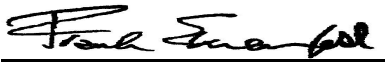
**Lab No.:** 7313720                      **Location:** Kitchen Break Rm Fountain                      **Result(ppb):** 1.90  
**Client No.:** 17-SEN-DW                      \* Sample acidified to pH <2.

**Lab No.:** 7313721                      **Location:** F105 Home EC Food Prep Sink                      **Result(ppb):** <1.00  
**Client No.:** 20-SEN-EC                      \* Sample acidified to pH <2.

**Lab No.:** 7313722                      **Location:** F105 Home EC Food Prep Sink                      **Result(ppb):** <1.00  
**Client No.:** 21-SEN-EC                      \* Sample acidified to pH <2.

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Lab No.: 7313723                      Location: F105 Home EC Food Prep Sink                      Result(ppb): <1.00  
Client No.: 22-SEN-EC                      \* Sample acidified to pH <2.

Lab No.: 7313724                      Location: F105 Home EC Food Prep Sink                      Result(ppb): 2.00  
Client No.: 23-SEN-EC                      \* Sample acidified to pH <2.

Lab No.: 7313725                      Location: F105 Home EC Food Prep Sink                      Result(ppb): <1.00  
Client No.: 24-SEN-EC                      \* Sample acidified to pH <2.

Lab No.: 7313726                      Location: E105 Sink Bank                      Result(ppb): 1.70  
Client No.: 26-SEN-DW                      \* Sample acidified to pH <2.

Lab No.: 7313727                      Location: E105 BF                      Result(ppb): <1.00  
Client No.: 27-SEN-EC                      \* Sample acidified to pH <2.

Lab No.: 7313728                      Location: E101 Dress Rm Sink                      Result(ppb): 4.10  
Client No.: 28-SEN-DW                      \* Sample acidified to pH <2.


Lab No.: 7313729                      Location: E103 Dress Rm Sink                      Result(ppb): 5.40  
Client No.: 29-SEN-DW                      \* Sample acidified to pH <2.

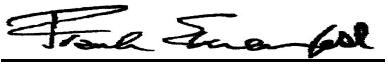
Lab No.: 7313730                      Location: F101 Sink                      Result(ppb): <1.00  
Client No.: 30-SEN-DW                      \* Sample acidified to pH <2.

Lab No.: 7313731                      Location: F101 Sink                      Result(ppb): <1.00  
Client No.: 30A-SEN-DW                      \* Sample acidified to pH <2.

Lab No.: 7313732                      Location: D100 Hall Near F101 BF                      Result(ppb): <1.00  
Client No.: 31-SEN-WC                      \* Sample acidified to pH <2.

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LEAD WATER SAMPLE ANALYSIS SUMMARY

**Lab No.:** 7313733                      **Location:** D104 School Store Sink                      **Result(ppb):** 1.20  
**Client No.:** 33-SEN-DW                      \* Sample acidified to pH <2.

**Lab No.:** 7313734                      **Location:** D100 Hall Out Nurse BF                      **Result(ppb):** <1.00  
**Client No.:** 34-SEN-WC                      \* Sample acidified to pH <2.

**Lab No.:** 7313735                      **Location:** Small Gym North Side BF                      **Result(ppb):** <1.00  
**Client No.:** 36-SEN-WC                      \* Sample acidified to pH <2.

**Lab No.:** 7313736                      **Location:** Large Gym North Side BF                      **Result(ppb):** <1.00  
**Client No.:** 37-SEN-WC                      \* Sample acidified to pH <2.

**Lab No.:** 7313737                      **Location:** 6121 Trainers Rm Hose                      **Result(ppb):** <1.00  
**Client No.:** 38-SEN-DW                      \* Sample acidified to pH <2.

**Lab No.:** 7313738                      **Location:** 6121 Trainers Rm Sink                      **Result(ppb):** 5.80  
**Client No.:** 39-SEN-DW                      \* Sample acidified to pH <2.

**Lab No.:** 7313739                      **Location:** Large Gym South BF                      **Result(ppb):** <1.00  
**Client No.:** 40-SEN-WC                      \* Sample acidified to pH <2.

**Lab No.:** 7313740                      **Location:** 6100 Lobby Gym (L) BF                      **Result(ppb):** <1.00  
**Client No.:** 41-SEN-WC                      \* Sample acidified to pH <2.

**Lab No.:** 7313741                      **Location:** 6104 Wrestling Sink                      **Result(ppb):** 1.40  
**Client No.:** 43-SEN-WC                      \* Sample acidified to pH <2.

**Lab No.:** 7313742                      **Location:** Small Gym South BF                      **Result(ppb):** <1.00  
**Client No.:** 45-SEN-WC                      \* Sample acidified to pH <2.

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7313743                      Location: D108 Food Prep Sink                      Result(ppb): <1.00  
Client No.: 46-SEN-FP                      \* Sample acidified to pH <2.

Lab No.: 7313744                      Location: D110 Sink                      Result(ppb): <1.00  
Client No.: 47-SEN-DW                      \* Sample acidified to pH <2.

Lab No.: 7313745                      Location: Main Office Kitchen Sink                      Result(ppb): <1.00  
Client No.: 48-SEN-FP                      \* Sample acidified to pH <2.

Lab No.: 7313746                      Location: C110-1 Guidance Sink Coffee Prep                      Result(ppb): 1.70  
Client No.: 49-SEN-FP                      \* Sample acidified to pH <2.

Lab No.: 7313747                      Location: C110-11 Guidance Sink-Coffee Prep                      Result(ppb): 1.50  
Client No.: 50-SEN-FP                      \* Sample acidified to pH <2.

Lab No.: 7313748                      Location: C112 Sink                      Result(ppb): <1.00  
Client No.: 51-SEN-DW                      \* Sample acidified to pH <2.


Lab No.: 7313749                      Location: C100 Hall B/C Intersect BF                      Result(ppb): <1.00  
Client No.: 52-SEN-WC                      \* Sample acidified to pH <2.

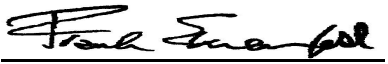
Lab No.: 7313750                      Location: C-117 Sink                      Result(ppb): <1.00  
Client No.: 55-SEN-DW                      \* Sample acidified to pH <2.

Lab No.: 7313751                      Location: C109 Sink                      Result(ppb): <1.00  
Client No.: 56-SEN-DW                      \* Sample acidified to pH <2.

Lab No.: 7313752                      Location: A108 Sink                      Result(ppb): <1.00  
Client No.: 57-SEN-DW                      \* Sample acidified to pH <2.

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Lab No.: 7313753                      Location: C101 Sink                      Result(ppb): <1.00  
Client No.: 58-SEN-DW              \* Sample acidified to pH <2.

Lab No.: 7313754                      Location: C100 Hall A/C BF              Result(ppb): <1.00  
Client No.: 60-SEN-WC              \* Sample acidified to pH <2.

Lab No.: 7313755                      Location: D205 Sink                      Result(ppb): 7.70  
Client No.: 62-SEN-DW              \* Sample acidified to pH <2.

Lab No.: 7313756                      Location: D203 Sink                      Result(ppb): <1.00  
Client No.: 63-SEN-DW              \* Sample acidified to pH <2.

Lab No.: 7313757                      Location: D201-8 Library D.R. Sink      Result(ppb): <1.00  
Client No.: 65-SEN-FP              \* Sample acidified to pH <2.

Lab No.: 7313758                      Location: D201 Library BK BF              Result(ppb): 2.00  
Client No.: 66-SEN-WC              \* Sample acidified to pH <2.


Lab No.: 7313759                      Location: D207 Sink                      Result(ppb): 11.4  
Client No.: 67-SEN-WC              \* Sample acidified to pH <2.

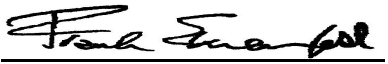
Lab No.: 7313760                      Location: D209 Sink                      Result(ppb): <1.00  
Client No.: 68-SEN-DW              \* Sample acidified to pH <2.

Lab No.: 7313761                      Location: C216 Sink                      Result(ppb): 2.60  
Client No.: 69-SEN-DW              \* Sample acidified to pH <2.

Lab No.: 7313762                      Location: C215 Sink                      Result(ppb): 5.20  
Client No.: 70-SEN-DW              \* Sample acidified to pH <2.

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LEAD WATER SAMPLE ANALYSIS SUMMARY

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Lab No.: 7313763  
Client No.: 72-SEN-WC


Location: C200 Hall B/C Int BF  
\* Sample acidified to pH <2.

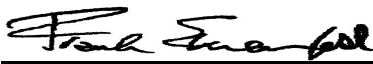
Result(ppb): <1.00

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7313764                      Location: A208 Sink                      Result(ppb): 3.30  
Client No.: 74-SEN-DW              \* Sample acidified to pH <2.

Lab No.: 7313765                      Location: C200 Hall Int A BF              Result(ppb): <1.00  
Client No.: 77-SEN-WC              \* Sample acidified to pH <2.

Lab No.: 7313766                      Location: C208 Sink                      Result(ppb): <1.00  
Client No.: 78-SEN-DW              \* Sample acidified to pH <2.

Lab No.: 7313767                      Location: C210 Sink                      Result(ppb): 6.40  
Client No.: 79-SEN-DW              \* Sample acidified to pH <2.

Lab No.: 7313768                      Location: C212 Sink                      Result(ppb): 9.60  
Client No.: 80-SEN-DW              \* Sample acidified to pH <2.

Lab No.: 7313769                      Location: C214 Sink                      Result(ppb): <1.00  
Client No.: 81-SEN-WC              \* Sample acidified to pH <2.


Lab No.: 7313770                      Location: Kitchen Ice Machine              Result(ppb): <1.00  
Client No.: 82-SEN-IM              \* Sample acidified to pH <2.

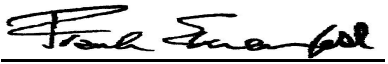
Lab No.: 7313771                      Location: 6121 Trainers Rm-Ice Machine              Result(ppb): <1.00  
Client No.: 83-SEN-IM              \* Sample acidified to pH <2.

Lab No.: 7313772                      Location: D103 Nurse Ice Machine              Result(ppb): 1.50  
Client No.: 84-SEN-IM              \* Sample acidified to pH <2.

Lab No.: 7313773                      Location: Kitchen Cooking Steamer              Result(ppb): <1.00  
Client No.: 85-SEN-FP              \* Sample acidified to pH <2.

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LEAD WATER SAMPLE ANALYSIS SUMMARY

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Lab No.: 7313774  
Client No.: BLANK


Location: Blank  
\* Sample acidified to pH <2.

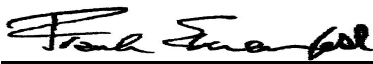
Result(ppb): <1.00

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## Appendix to Analytical Report:

**Customer Contact:** Cathy Ledden  
**Analysis:** AAS-GF - ASTM D3559-08D

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com  
**iATL Office Manager:** ?wchampion@iatl.com  
**iATL Account Representative:** Shirley Clark  
**Sample Login Notes:** See Batch Sheet Attached  
**Sample Matrix:** Water  
**Exceptions Noted:** See Following Pages

### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

### Information Pertinent to this Report:

Analysis by AAS Graphite Furnace:

- ASTM D3559-08D

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

### Note: These methods are analytically equivalent to iATL's accredited method;

- USEPA 40CFR 141.11B

- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample

- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

Regulatory limit for lead in drinking water is 15.0 parts per billion as cited in EPA 40 CFR 141.11 National Primary Drinking Water Regulations, Subpart B: Maximum contaminant levels for inorganic chemicals.

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Sample results are not corrected for contamination by field or analytical blanks.

PPB = Parts per billion. 1 µg/L = 1 ppb MDL = 0.24 PPB Reporting Limit (RL) = 1.0 PPB

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**Disclaimers / Qualifiers:**

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

Matrix spiking is performed on each client batch to determine if interferences could impact results. When spike recoveries fall out of acceptable range matrix interference is suspected and samples are diluted until acceptable spike recovery can be achieved. Reporting limits will increase by the same degree as the dilution required.

Note: Sample dilution required due to matrix interference.

Water Sample Turbidity greater than 1.0 NTU does not meet Federal and NJ State Primary & Secondary Drinking Water Standards.

\* ASTM D3559 (D) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.