June 24, 2024

Joseph A. Martorana
Director of Facilities
Hastings-on-Hudson Union Free School District
27 Farragut Avenue
Hastings-on-Hudson, NY 10706

Subject: **Lead Testing of School Drinking Water at Hastings High School/Middle School**
Project Number: US0024354.4754

Dear Mr. Martorana:

At your request on behalf of the Hastings-on-Hudson Union Free School District, WSP USA Inc. (WSP) has conducted a testing program for lead in water. WSP's team of industrial hygienists performed water sampling on May 24 and June 13, 2024. In addition to this final report, WSP has provided the following New York State Department of Health (NYS DOH) required documentation: Laboratory Results, Exceedance Table when exceedances occurred, and when applicable a draft Parents Notification Letter and Notification of exceedances to the County Department of Health. As requested by the district, WSP completed the required reporting into the NYS Health Electronic Response Data System (HERDS).

BACKGROUND

On September 6, 2016, the Governor signed legislation requiring all school districts in NYS to test potable water systems for lead contamination and to take responsive actions. To implement this new law, the DOH issued emergency regulations, titled Lead Testing in School Drinking Water. On May 9, 2018, the Lead Testing in School Drinking Water final regulation was published in the State Register, replacing the emergency regulation. This law was amended and signed into law on December 23, 2021, requiring significant changes to Subpart 67-4 Public Health Law PHL §1110. The following revisions went into effect on December 22, 2022:

- All school buildings serving children in pre-K through grade 12 are required to collect a sample from each applicable outlet for testing every 3 years.
- Previously deemed "lead-free" buildings are no longer exempt.
- Schools must complete initial first-draw sampling for Compliance Period January 1, 2023-December 31, 2025.
- **Action Level** was lowered from 15 ppb to **5 ppb**.
- All water provided to staff/students in response to an outlet being taken out of service must be free of charge.
- Schools must now include copies of lab reports of the lead testing results on their websites and every 3 years thereafter or at an earlier time as determined by the Commissioner of Health.
- Compliance testing will occur on a triennial (every 3 years) schedule.

KEY DEFINITIONS IN THE LAW/REGULATIONS

- Outlet means a potable water fixture currently or potentially used for drinking or cooking purposes, including but not limited to a bubbler, drinking fountain, hose bib, sinks or faucets.
- "Applicable" outlets: Outlets that should be sampled may be located anywhere on school property including external outlets (hose bibs) if the outlet may be used for drinking or cooking (including food preparation).

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Superintendents or their designees have the responsibility to identify which outlets on a school property meet the regulation requirements for sampling ("applicable outlets"). If a Superintendent or their designee determines that they have outlets that fall outside of the scope of the regulation (outlets not used or potentially used for drinking or cooking), the school must remediate or/and have a remedial action plan that includes details on how those outlets will not be accessed and/or utilized for drinking or cooking purposes ("non-applicable outlets").

- "Non-applicable" outlets: The Rule of Thumb is that generally, any outlet in a room or office within a school that is not used by students (pre-kindergarten through grade 12) and does not provide water for drinking or cooking does not require sampling. This includes dishwashing sinks; bus garage; point of entry; science/art sink; hot, tempered, or bathroom outlets designated non-applicable with education and signage.
- "First-draw" sample is defined as a sample taken from a cold water outlet before any water is used from that outlet and in which water is motionless in pipes for a minimum of 8-18 hours before sample collection.
- Action level means 5 parts per billion (ppb). Lead test results greater than 5 ppb exceeds the lead action level and requires the outlet to be taken out of service and a remediation action plan be implemented.

For additional guidance regarding applicable vs. non-applicable outlets, and other requirements please see the Appendices for NYS DOH Lead Testing in School Drinking Water Program Updates 2023 and NYS Senate Law https://www.health.ny.gov/environmental/water/drinking/lead/lead_testing_of_school_drinking_water.htm https://www.nysenate.gov/legislation/laws/PBH/1110.

SAMPLING METHODOLOGY

1 The NYS DOH Emergency Regulation, Section 67-4.3 – Monitoring states:

- First-draw samples shall be collected from all "applicable" outlets. A first-draw sample volume shall be 250 milliliters (mL), collected from a cold-water outlet before any water is used. The water shall be motionless in the pipes for a minimum of 8 hours, but no more than 18 hours, before sample collection. Note: The NYS DOH requires that for outlets which do not have regular use and water remains motionless in the pipes for greater than 18 hours, the outlets were to be sampled as well (to represent "normal use patterns").
- All first-draw samples shall be analyzed by a laboratory approved to perform such analyses by the Department's Environmental Laboratory Approval Program (ELAP).

Although not required by the NYS DOH Emergency Regulation, WSP also followed additional methodologies included in Environmental Protection Agency (EPA) document entitled "3Ts for Reducing Lead in Drinking Water in Schools".

2 Sampling Plan

- In developing a sampling plan before sample collection took place at the School, WSP determined the location of the water service line. Sampling at the School started from a location closest to the service line entrance and proceeded outwards from that point.
- A map, depicting the location of the service line entrance, and arrows indicating the direction of sampling was provided to and used by the sampling team. The sampling team verified the location of the service line entrance prior to sampling.

3 Laboratory Analysis: Samples were submitted to York Analytical (Stratford, CT) and/or EMSL (Cinnaminson, NJ) for analysis under chain-of-custody. The laboratories are certified through the NYS DOH Environmental Laboratory Approval Program (ELAP) and are approved for analysis of lead in potable water.

4 Re-sampling can be performed provided corrective action or remediation options, as reviewed in the Recommendation section, are complete. Proper flushing of new equipment (e.g. pipes, faucets etc.) is recommended.

5 Flushing Program and Resampling: when routine flushing programs are implemented, the school plumbing system should be flushed according to an establish protocol. After flushing and before sampling or resampling, a period of 3-4 days of normal use is recommended. First-draw lead water sampling can be performed after the required hold time of 8-18 hours is completed.

6 In accordance with the NYS DOH, the following post-remediation testing requirements apply:
- Follow-up samples collected after an outlet has been remediated must also be "first-draw" samples. Schools may choose to perform additional sampling (i.e., 30-second flush, etc.) to determine the contribution of lead from plumbing to guide remediation decisions.
- Only those outlets that exceed the Action Level need to be resampled (following remediation).
- All remediated outlets will likely require flushing before being placed back into service.
- Post-remediation tests results need to be reported in the Department's HERDS application on HCS, and on the school website within the same reporting timeframes/requirements as specified for the initial sampling.

RESULTS DISCUSSION

The Assessment Results Exceedance Table provides details on the date of sampling, sample identification, location and laboratory results that exceeded 5 ppb. A copy of the full laboratory results and the chain of custody are presented at the end of this report in Appendix A. Laboratory approvals can be found in Appendix B.

- Of the **39 samples collected on May 24, 2024 at Hastings High School/Middle School, 5 (12.8%)** had lead concentrations that exceeded 5 ppb. The table below details the sample locations and the laboratory results.

Hastings High School / Middle School - Hastings-On-Hudson Union Free School District				
Date	Sample ID	Floor	Location	Lead Level (ppb)
5/24/2024	01-TRAIN-CF-P-05	Basement	Athletic Training Room, CF, 05	5.47
5/24/2024	01-ICE-WB-P-02	Basement	Ice Room by Cochran Gym, Jug Filler, WB, 02	9.66
5/24/2024	02-255-CF-P-07	1st Floor	Room 255, CF, 07-Closer to door	6.46
5/24/2024	02-255-CF-P-08	1st Floor	Room 255, CF, 08-Further from door	11.1
5/24/2024	03-352-CF-P-13	2nd Floor	Room 352, CF, 13	7.18

- Follow-up exceedance sampling was performed after flushing and remediation efforts. Of the **5 samples collected on June 13 and June 14, 2024 at Hastings High School/Middle School, 3 (60%)** had lead concentrations that exceeded 5 ppb. The table below details the sample locations and the laboratory results.

Hastings High School / Middle School - Hastings-On-Hudson Union Free School District				
Date	Sample ID	Floor	Location	Lead Level (ppb)
6/13/2024	03-352-CF-P-13	Basement	Room 352, CF, 13	31.4
6/14/2024	02-255-CF-P-07	1st Floor	Room 255, CF, 07-Closer to door	5.75
6/14/2024	02-255-CF-P-08	1st Floor	Room 255, CF, 08-Further from door	6.66

As part of the remediation efforts, the outlet plumbing hardware at the jug filler was replaced and a point of use filter was installed. Sampling was performed with, and without the filter. The sample results with the POU filter were non-detect so this control method will remain. For the other outlets with exceedance the district is implementing signage and removing these outlets from service until POU filters are installed.

Upon receipt of the results, WSP made the following recommendations to the district as required by Subpart 67-4 of Title 10 (Health) of the Official Compilation of Codes, Rules and Regulations of the State of New York:

- Review the Exceedance Table, Laboratory Results and Notification Letter, indicating lead water sample results exceeding the NYSDOH Action Level of 5 ppb, and require the outlet to be taken out of service and a remediation action plan be implemented.

RECOMMENDATIONS

If lead concentrations exceeded 5 ppb, WSP offers the following recommendations for remediation:

In accordance with Subpart 67-4, Section 67-4.4 Response, the following immediate Response Actions are necessary:

- Prohibit the use of the outlet immediately (take outlet out of service or turn off) until:
  1. A lead remedial action plan is implemented to mitigate the lead level at the outlet, and
  2. Post-remediation test results indicate that the lead levels are at or below the action level;
- Provide building occupants with an adequate supply of water for drinking and cooking until remediation is performed;
- Report the test results to the local health department as soon as practicable, but no more than 1 business day after the school received the laboratory report **(Notification issued by WSP);**
- Notify all staff and all persons in parental relation to students of the test results, in writing, as soon as practicable but no more than 10 business days after the school received the laboratory report **(See Attached Draft Letter for issuance by District).**

If an outlet tested above the "action level", it can still be used for cleaning and handwashing. However, please note:

- Signage must be placed at such outlets stating that the water should not be used for drinking (only handwashing and cleaning).
- Pictures should be used if there are small children using the water outlets, and staff should ensure the children understand what the signs mean and monitor the outlets to ensure they are not used for drinking.

Corrective Actions / Remediation Options

- Permanent removal of an outlet
- Outlet replacement with "lead-free" plumbing materials
- Pipe replacement with "lead-free" plumbing materials
- Remove other sources of lead (lead pipe, lead solder joints, and brass plumbing components with "lead-free" materials)
- Flushing (systematic flushing program)
- Point of Use (POU) Filters*
- Supervision
- Engineering controls
- Education
- Signage. Signage used at outlets are considered to be a temporary measure and cannot be used as a permanent measure.
- Install Tempered outlets*

Non-applicable Outlets

- Tempered Outlets. These outlets are not required to be sampled. However, all tempered water outlets should be clearly posted with signs ("Do Not Drink" or equivalent), provide awareness education to students and staff and implement appropriate remedial actions to prevent drinking from these outlets.
- Science/Art sinks: as noted by NYSDOL, typically these classroom settings prohibit eating and/or drinking. The school Superintendent has the authority to determine whether these outlets may be used for drinking or cooking or whether they require sampling. Management controls such as restricted/secured access (e.g., locked doors), signage, required supervision and other management controls are part of the overall safety and health program elements that should be in place.

POST REMEDIATION SAMPLING PLAN

In accordance with the NYS DOH, the following post-remediation testing requirements apply:

- Follow-up samples collected after an outlet has been remediated must also be "first-draw" samples. Schools may choose to perform additional sampling (i.e., 30-second flush, etc.) to determine the contribution of lead from plumbing to guide remediation decisions.
- Only those outlets that exceed the Action Level need to be resampled (following remediation).
- All remediated outlets will likely require flushing before being placed back into service.
- Post-remediation tests results need to be reported in the Department's HERDS application on HCS, and on the school website within the same reporting timeframes/requirements as specified for the initial sampling.

LIMITATIONS, EXCEPTIONS AND ASSUMPTIONS

Opinions and recommendations presented in this report apply to site conditions and features as they existed at the time of WSP's site visits, and those reasonably foreseeable. They cannot necessarily apply to conditions and features of which WSP is unaware and has not had the opportunity to evaluate. The conclusions presented in this report are professional opinions based solely upon WSP's visual observations of accessible areas and sampling data. These conclusions are intended exclusively for the purpose state herein, at the sites indicated, and for the project indicated. No expressed or implied representation or warranty is included or intended in our reports, except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession.

If you have any questions concerning this information, please feel free to contact us at 212-760-5681. We look forward to working with you in the future.

Report drafted by:

Martin Douglas

Martin Douglas
Environmental Specialist

Report reviewed and issued by:

Joseph Kapp

Joseph Kapp, CIH, CSP
Assistant Vice President

Appendix A – Laboratory Results & Chain of Custody
Appendix B - Laboratory ELAP Certifications
Appendix C - NYS DOH Lead Testing in School Drinking Water Program Review and Updates 2023

CC : Polina Pikes, WSP
Alexander Smolyar, WSP

APPENDIX A

Laboratory Results & Chain of Custody

Technical Report

prepared for:

WSP USA (New York, NY)
One Penn Plaza, 2nd Floor
New York NY, 10119
Attention: Joseph Kapp

Report Date: 06/18/2024
Client Project ID: Hastings-On-Hudson Union Free School District Hastings High/Middle School
York Project (SDG) No.: 24E1709

Revision No. 1.0

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

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Report Date: 06/18/2024
Client Project ID: Hastings-On-Hudson Union Free School District Hastings High/Middle School
York Project (SDG) No.: 24E1709

WSP USA (New York, NY)
One Penn Plaza, 2nd Floor
New York NY, 10119
Attention: Joseph Kapp

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 24, 2024 and listed below. The project was identified as your project: **Hastings-On-Hudson Union Free School District Hastings High/Middle School**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24E1709-01	001-FAR-KF-P-01	Drinking Water	05/24/2024	05/24/2024
24E1709-02	01-F155-CF-P-01	Drinking Water	05/24/2024	05/24/2024
24E1709-03	01-F155-CF-P-02	Drinking Water	05/24/2024	05/24/2024
24E1709-04	01-F155-CF-P-03	Drinking Water	05/24/2024	05/24/2024
24E1709-05	01-F155-CF-P-04	Drinking Water	05/24/2024	05/24/2024
24E1709-06	01-HALL-WB-P-01	Drinking Water	05/24/2024	05/24/2024
24E1709-07	01-HALL-DW-P-01	Drinking Water	05/24/2024	05/24/2024
24E1709-08	01-TRAIN-CF-P-05	Drinking Water	05/24/2024	05/24/2024
24E1709-09	01-ICE-KF-P-02	Drinking Water	05/24/2024	05/24/2024
24E1709-10	01-ICE-WB-P-02	Drinking Water	05/24/2024	05/24/2024
24E1709-11	01-HALL-WB-P-03	Drinking Water	05/24/2024	05/24/2024
24E1709-12	01-HALL-DW-P-02	Drinking Water	05/24/2024	05/24/2024
24E1709-13	02-HALL-DW-P-03	Drinking Water	05/24/2024	05/24/2024
24E1709-14	02-HEALTH-NS-P-01	Drinking Water	05/24/2024	05/24/2024
24E1709-15	02-HALL-WB-P-04	Drinking Water	05/24/2024	05/24/2024
24E1709-16	02-HALL-DW-P-04	Drinking Water	05/24/2024	05/24/2024
24E1709-17	02-SICK-CF-P-06	Drinking Water	05/24/2024	05/24/2024
24E1709-18	02-HALL-WB-P-05	Drinking Water	05/24/2024	05/24/2024
24E1709-19	02-HALL-DW-P-05	Drinking Water	05/24/2024	05/24/2024
24E1709-20	02-255-CF-P-07	Drinking Water	05/24/2024	05/24/2024
24E1709-21	02-255-CF-P-08	Drinking Water	05/24/2024	05/24/2024
24E1709-22	03-HALL-WB-P-06	Drinking Water	05/24/2024	05/24/2024

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24E1709-23	03-HALL-DW-P-06	Drinking Water	05/24/2024	05/24/2024
24E1709-24	03-358-CF-P-09	Drinking Water	05/24/2024	05/24/2024
24E1709-25	03-356-CF-P-10	Drinking Water	05/24/2024	05/24/2024
24E1709-26	03-355-CF-P-11	Drinking Water	05/24/2024	05/24/2024
24E1709-27	03-354-CF-P-12	Drinking Water	05/24/2024	05/24/2024
24E1709-28	03-352-CF-P-13	Drinking Water	05/24/2024	05/24/2024
24E1709-29	03-CAFE-DW-P-07	Drinking Water	05/24/2024	05/24/2024
24E1709-30	03-CAFE-WB-P-07	Drinking Water	05/24/2024	05/24/2024
24E1709-31	03-KIT-KF-P-03	Drinking Water	05/24/2024	05/24/2024
24E1709-32	03-KIT-KF-P-04	Drinking Water	05/24/2024	05/24/2024
24E1709-33	03-KIT-KF-P-05	Drinking Water	05/24/2024	05/24/2024
24E1709-34	03-HALL-WB-P-08	Drinking Water	05/24/2024	05/24/2024
24E1709-35	03-HALL-DW-P-08	Drinking Water	05/24/2024	05/24/2024
24E1709-36	04-HALL-WB-P-09	Drinking Water	05/24/2024	05/24/2024
24E1709-37	04-HALL-DW-P-10	Drinking Water	05/24/2024	05/24/2024
24E1709-38	04-HALL-WB-P-10	Drinking Water	05/24/2024	05/24/2024
24E1709-39	04-HALL-DW-P-10	Drinking Water	05/24/2024	05/24/2024

General Notes for York Project (SDG) No.: 24E1709

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By: Cassie L. Mosher

Cassie L. Mosher
Laboratory Manager

Date: 06/18/2024

Sample Information

Client Sample ID: 001-FAR-KF-P-01 **York Sample ID:** 24E1709-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:15 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	1.28	M-BS	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 12:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 01-F155-CF-P-01 **York Sample ID:** 24E1709-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:18 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	2.54	M-BS	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 12:49	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 01-F155-CF-P-02 **York Sample ID:** 24E1709-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:21 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	2.65	M-BS	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 12:50	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 01-F155-CF-P-03 **York Sample ID:** 24E1709-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:24 am	05/24/2024

Sample Information

Client Sample ID: 01-F155-CF-P-03 **York Sample ID:** 24E1709-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:24 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**2.11**	M-BS	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 12:52	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 01-F155-CF-P-04 **York Sample ID:** 24E1709-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:27 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.70**	M-BS	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 12:53	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 01-HALL-WB-P-01 **York Sample ID:** 24E1709-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:30 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND	M-BS	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 12:55	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 01-HALL-DW-P-01 **York Sample ID:** 24E1709-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:32 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: 01-HALL-DW-P-01 **York Sample ID:** 24E1709-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:32 am	05/24/2024

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND	M-BS	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 12:56	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 01-TRAIN-CF-P-05 **York Sample ID:** 24E1709-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:34 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**5.47**	M-BS, M-PbEX	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 12:57	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 01-ICE-KF-P-02 **York Sample ID:** 24E1709-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:36 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND	M-BS	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 12:59	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 01-ICE-WB-P-02 **York Sample ID:** 24E1709-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:38 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: 01-ICE-WB-P-02 **York Sample ID:** 24E1709-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:38 am	05/24/2024

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**9.66**	M-BS, M-PbE X	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 13:19	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 01-HALL-WB-P-03 **York Sample ID:** 24E1709-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:40 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND	M-BS	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 13:21	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 01-HALL-DW-P-02 **York Sample ID:** 24E1709-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:43 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND	M-BS	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 13:22	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 02-HALL-DW-P-03 **York Sample ID:** 24E1709-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:45 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: 02-HALL-DW-P-03 **York Sample ID:** 24E1709-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:45 am	05/24/2024

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND	M-BS	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 13:24	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 02-HEALTH-NS-P-01 **York Sample ID:** 24E1709-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:47 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**3.80**	M-BS	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 13:25	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 02-HALL-WB-P-04 **York Sample ID:** 24E1709-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:48 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.18**	M-BS	ug/L	1.00	1	EPA 200.8	05/31/2024 10:43	05/31/2024 13:26	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 02-HALL-DW-P-04 **York Sample ID:** 24E1709-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:50 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 02-HALL-DW-P-04 **York Sample ID:** 24E1709-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:50 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.65**		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 13:41	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 02-SICK-CF-P-06 **York Sample ID:** 24E1709-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:52 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.35**		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 13:44	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 02-HALL-WB-P-05 **York Sample ID:** 24E1709-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:54 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 13:45	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 02-HALL-DW-P-05 **York Sample ID:** 24E1709-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:56 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: 02-HALL-DW-P-05 **York Sample ID:** 24E1709-19

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:56 am	05/24/2024

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 13:46	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 02-255-CF-P-07 **York Sample ID:** 24E1709-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 5:58 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**6.46**	M-PbE X	ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 13:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 02-255-CF-P-08 **York Sample ID:** 24E1709-21

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:00 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**11.1**	M-PbE X	ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 13:49	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 03-HALL-WB-P-06 **York Sample ID:** 24E1709-22

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:02 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 03-HALL-WB-P-06 **York Sample ID:** 24E1709-22

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:02 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 13:50	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 03-HALL-DW-P-06 **York Sample ID:** 24E1709-23

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:05 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 14:21	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 03-358-CF-P-09 **York Sample ID:** 24E1709-24

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:08 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.52**		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 14:22	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 03-356-CF-P-10 **York Sample ID:** 24E1709-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:11 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: 03-356-CF-P-10 **York Sample ID:** 24E1709-25

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:11 am	05/24/2024

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.66**		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 14:23	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 03-355-CF-P-11 **York Sample ID:** 24E1709-26

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:15 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**2.77**		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 14:25	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 03-354-CF-P-12 **York Sample ID:** 24E1709-27

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:18 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.58**		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 14:26	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 03-352-CF-P-13 **York Sample ID:** 24E1709-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:21 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 03-352-CF-P-13 **York Sample ID:** 24E1709-28

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:21 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**7.18**	M-PbE X	ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 14:27	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 03-CAFE-DW-P-07 **York Sample ID:** 24E1709-29

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:24 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 14:29	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 03-CAFE-WB-P-07 **York Sample ID:** 24E1709-30

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:27 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 14:30	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 03-KIT-KF-P-03 **York Sample ID:** 24E1709-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:30 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: 03-KIT-KF-P-03 **York Sample ID:** 24E1709-31

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:30 am	05/24/2024

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 14:32	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 03-KIT-KF-P-04 **York Sample ID:** 24E1709-32

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:33 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 14:33	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 03-KIT-KF-P-05 **York Sample ID:** 24E1709-33

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:36 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.29**		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 14:39	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 03-HALL-WB-P-08 **York Sample ID:** 24E1709-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:40 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 03-HALL-WB-P-08 **York Sample ID:** 24E1709-34

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:40 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.81**		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 14:41	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 03-HALL-DW-P-08 **York Sample ID:** 24E1709-35

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:44 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**2.00**		ug/L	1.00	1	EPA 200.8	05/31/2024 10:47	05/31/2024 14:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 04-HALL-WB-P-09 **York Sample ID:** 24E1709-36

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:48 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8	05/31/2024 10:49	05/31/2024 14:49	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 04-HALL-DW-P-10 **York Sample ID:** 24E1709-37

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:52 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: **04-HALL-DW-P-10** **York Sample ID:** **24E1709-37**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:52 am	05/24/2024

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8	05/31/2024 10:49	05/31/2024 14:52	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **04-HALL-WB-P-10** **York Sample ID:** **24E1709-38**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 6:56 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.83**		ug/L	1.00	1	EPA 200.8	05/31/2024 10:49	05/31/2024 14:56	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: **04-HALL-DW-P-10** **York Sample ID:** **24E1709-39**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24E1709	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	May 24, 2024 7:00 am	05/24/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**1.92**		ug/L	1.00	1	EPA 200.8	05/31/2024 10:49	05/31/2024 14:57	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample and Data Qualifiers Relating to This Work Order

M-PbEX Lead result exceeds regulatory limit

M-BS The recovery for this element in the batch blank spike recovered slightly outside of control limits

Definitions and Other Explanations

* Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.

ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon current NELAC/TNI Standards and applies to all analyses.

LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: This report has been revised to change a Sample ID.

Lead (Pb) Chain of Custody 24E1709

Client: Hastings-on-Hudson Union Free School District - Hastings High/Middle School

Location Sampled: Hastings High/Middle School

Date: 05/24/2024 **Address:** 1 Mount Hope Blvd, Hastings-On-Hudson, NY 10706

Report To (Name): Joseph Kapp **Sampled By:** P. Gaughan, T. Grajoure

Email Address: Joseph.Kapp@wsp.com; LB.LabResults@wsp.com; polina.pikes@wsp.com

Project Number: US0024354.4754

Turnaround Time (TAT) Options* - Please Check

3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	X 120 Hour	1 Week	2 Week

Drinking Water Preserved with HNO_3 pH < 2

Sample ID	Lab ID	Sample Description	Volume	Date/Time Sampled
Ex. 003-312-DW-P-015		Floor, Room Name, Room Number, Type, Type Number	250 mL	
001-Fac-KF-P-01	1	Basement, Middle school Faculty Lounge, KF, 01	250 mL	5:15
01-F155-CF-P-01	2	Basement, Middle school, ~~Home~~ Room F155, CF, 01	250 mL	5:18
01-F155-CF-P-02	3	Basement, MS Room F155, CF, 02	250 mL	5:21
01-F155-CF-P-03	4	Bsmt, MS Room F155, CF, 03	250 mL	5:24
01-F155-CF-P04	5	Bsmt, MS Rm F155, CF, 04	250 mL	5:27
01-Hall-WB-P-01	6	Bsmt, MS Hall by Rm 165, WB, 01	250 mL	5:30
01-Hall-DW-P-01	7	Bsmt, MS Hall by Rm 165, DW, 01	250 mL	5:32
01-Train-CF-P-05	8	Bsmt, ~~MS~~ Athletic Training Rm, CF, 05	250 mL	5:34
01-ICE-KF-P-02	9	Bsmt, Ice Room by Cochran Gym, Ice machine, KF, 02	250 mL	5:36
01-ICE-WB-P-02	10	Bsmt, Jug Filler, Ice Room by Cochran Gym, WB, 02	250 mL	5:38
01-Hall-WB-P-03	11	Bsmt, Hall by Cochran Gym, WB, 03	250 mL	5:40
01-Hall-DW-P-02	12	Bsmt, Hall by Cochran Gym, DW, 02	250 mL	5:43
~~—~~	~~13~~	~~1st flr, Hall by 104, WB, 04~~ (PG)	250 mL	
02-Hall-DW-P-03	13	1st flr, Hall by 104, DW, 03	250 mL	5:45
02-Health-NS-P-01	14	1st fl, ~~Hall by~~ (PG), Health Office, NS, 01	250 mL	5:47
02-Hall-WB-P-04	15	1st flr, Hall by 263, WB, 04	250 mL	5:48
02-Hall-DW-P-04	16	1st flr, Hall by 263, DW, 04	250 mL	5:50
02-Sick-CF-P-06	17	1st flr, sick room, CF, 06	250 mL	5:52
02-Hall-WB-P-05	18	1st flr, Hall by 252, WB, 05	250 mL	5:54
02-Hall-DW-P-05	19	1st flr, Hall by 252, DW, 05 6/18/24	250 mL	5:56
02-255-CF-P-07	20	1st flr, Room 255, CF, F, 07 (close to door) (PG)	250 mL	5:58

Relinquished by:		Patrick Gaughan	**Date:**	5/24/2024	**Time:**	11:35
Received by:		Marcel	**Date:**	5/24/2024	**Time:**	11:35

Comments: A first draw sample (P) was taken at a drinking water fountain (DW) on the 3rd floor (003) outside of room 312 (312) and is the 15th outlet counted (015). DW= drinking water fountain. WB= Water Bottle Filler. CF= Classroom Sink Faucet. KF= Kitchen Faucet. BF= Bathroom Sink Faucet. NS= Nurse's Office Faucet.

REC LAB: EMA 5/24/24 13:40

25.5

24E1709

Sample ID	Lab ID	Sample Description	Volume	Date/Time Sampled
255-CF-P-08 (PG 5/18/24)	21	1st Flr, Room 255, CF, P, 08 (further from door) (PG 5/18/24)	250 mL	6:00
Hall-WB-P-06 (PG)	22	2nd Flr, Hall by 357, WB, P, 06 (PG)	250 mL	6:02
Hall-DW-P-06	23	2nd Flr, Hall by 357, DW, P, 06	250 mL	6:05
03-358-CF-P-09	24	2nd Flr, Rm 358, CF, 09	250 mL	6:08
03-356-CF-P-10	25	2nd flr, Rm 356, CF, 10	250 mL	6:11
03-355-CF-P-11	26	2nd flr, Rm 355, CF, 11	250 mL	6:15
03-354-CF-P-12	27	2nd flr, Rm 354, CF, 12	250 mL	6:18
03-352-CF-P-13	28	2nd flr, Rm 352, CF, 13	250 mL	6:21
03-Cafe-DW-P-07	29	2nd Flr, Cafeteria, DW, 07	250 mL	6:24
03-Cafe-WB-P-07	30	2nd Flr, Cafeteria, WB, 07	250 mL	6:27
03-KIT-KF-P-03	31	2nd Flr, Cafeteria Kitchen, Backwall adj stove, KF, 03	250 mL	6:30
03-KIT-KF-P-04	32	2nd Flr, Kitchen, Ice machine, KF, 04	250 mL	6:33
03-KIT-KF-P-05	33	2nd Flr, Kitchen, Center Island, KF, 05	250 mL	6:36
03-Hall-WB-P-08	34	2nd Flr, Hall by 226, WB, 08	250 mL	6:40
03-Hall-DW-P-08	35	2nd Flr Hall by 226, DW, 08	250 mL	6:44
04-Hall-WB-P-09	36	3rd Flr, Hall by 305, WB, 09	250 mL	6:48
04-Hall-DW-P-10	37	3rd Flr, Hall by 305, DW, 09	250 mL	6:52
04-Hall-WB-P-10	38	3rd Flr, Hall by 326, WB, 10	250 mL	6:56

Relinquished by:	Patrick Gonyea	**Date:**	5/24/2024	**Time:**	11:35	
Received by:	Marcel	**Date:**	5/24/2024	**Time:**	11:35	
Comments:	REC CAB: KMA 5/24/24 13:00					25.5

24E709

Sample ID	Lab ID	Sample Description	Volume	Date/Time Sampled
04-Hall-DW-P-10	39	3,4 Flx, Hall by 326, DW, 10	250 mL	7:00
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	

Relinquished by:	Patrick Gaylon	**Date:**	5/24/2024	**Time:**	11:35
Received by:	Marcos	**Date:**	5/24/2024	**Time:**	11:35

Comments: REL LAB: KOA 5/24/24 13:40 25.5

Page 3 of 3 pages

Technical Report

prepared for:

WSP USA (New York, NY)
One Penn Plaza, 2nd Floor
New York NY, 10119
Attention: Joseph Kapp

Report Date: 06/20/2024
Client Project ID: Hastings-On-Hudson Union Free School District Hastings High/Middle School
York Project (SDG) No.: 24F0905

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 06/20/2024
Client Project ID: Hastings-On-Hudson Union Free School District Hastings High/Middle School
York Project (SDG) No.: 24F0905

WSP USA (New York, NY)
One Penn Plaza, 2nd Floor
New York NY, 10119
Attention: Joseph Kapp

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 13, 2024 and listed below. The project was identified as your project: **Hastings-On-Hudson Union Free School District Hastings High/Middle School**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24F0905-01	01-TRAIN-CF-P-05	Drinking Water	06/13/2024	06/13/2024
24F0905-02	01-ICE-WB-P-02	Drinking Water	06/13/2024	06/13/2024
24F0905-03	02-255-CF-P-07	Drinking Water	06/13/2024	06/13/2024
24F0905-04	03-352-CF-P-13	Drinking Water	06/13/2024	06/13/2024

General Notes for York Project (SDG) No.: 24F0905

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By:

Date: 06/20/2024

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 01-TRAIN-CF-P-05 **York Sample ID:** 24F0905-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F0905	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	June 13, 2024 5:38 am	06/13/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**3.13**		ug/L	1.00	1	EPA 200.8	06/20/2024 09:43	06/20/2024 14:44	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 01-ICE-WB-P-02 **York Sample ID:** 24F0905-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F0905	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	June 13, 2024 5:40 am	06/13/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8	06/20/2024 09:43	06/20/2024 14:45	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 02-255-CF-P-07 **York Sample ID:** 24F0905-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F0905	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	June 13, 2024 5:42 am	06/13/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**14.0**	M-PbE X	ug/L	1.00	1	EPA 200.8	06/20/2024 09:43	06/20/2024 14:47	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 03-352-CF-P-13 **York Sample ID:** 24F0905-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F0905	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	June 13, 2024 5:55 am	06/13/2024

Sample Information

Client Sample ID: 03-352-CF-P-13 **York Sample ID:** 24F0905-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F0905	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	June 13, 2024 5:55 am	06/13/2024

Lead by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**31.4**	M-PbE X	ug/L	1.00	1	EPA 200.8	06/20/2024 09:43	06/20/2024 14:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample and Data Qualifiers Relating to This Work Order

M-PbEX Lead result exceeds regulatory limit

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon current NELAC/TNI Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

wsp

Lead (Pb) Chain of Custody

Client: Hastings-on-Hudson Union Free School District - Hastings High/Middle School

Location Sampled: Hastings High/Middle School

Date: 06/13/2024 | Address: 1 Mount Hope Blvd, Hastings-On-Hudson, NY 10706

Report To (Name): Joseph Kapp | Sampled By: Ivan Grujovic

Email Address: Joseph.Kapp@wsp.com; LB.LabResults@wsp.com; polina.pikes@wsp.com

Project Number: US0024354.4754

Turnaround Time (TAT) Options* - Please Check

3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	120 Hour	1 Week	2 Week

Drinking Water Preserved with HNO_3 pH < 2

Sample ID	Lab ID	Sample Description	Volume	Date/Time Sampled
01-TRAIN-CF-P-05	F01	Basement, Athletic Training Room, CF, 05	250 mL	05:38
01-ICE-WB-P-02	F02	Basement, Ice Room by Cochran Gym, Jug Filler, WB, 02	250 mL	05:40
02-255-CF-P-07	F03	1st Floor, Room 255, CF, 07	250 mL	05:42
~~02-252-CF-P-08~~		~~1st Floor, Room 252, CF, 08~~	~~250 mL~~	
03-352-CF-P-13	F04	2nd Floor, Room 352, CF, 13	250 mL	05:55

Relinquished by:		Ivan Grujovic	Date:	06/13/2024	Time:	05:58
Received by:		[illegible]	Date:	6/13/24	Time:	9:49

Comments: P= First draw sample DW= drinking water fountain. WB= Water Bottle Filler. CF= Classroom Sink Faucet. KF= Kitchen Faucet. BF= Bathroom Sink Faucet. NS= Nurse's Office Faucet.

6/13/24 20:20 3.7°C

Rel: Isabel Cotto 6/13/24 Rec: Ramon Duran 6/13/24 23:07

REL: MPR 6/13/24 1630 3.1°C REL: MPR 6/13/24 1750 Rec: Ramon Duran 6/13/24 2000

Technical Report

prepared for:

WSP USA (New York, NY)
One Penn Plaza, 2nd Floor
New York NY, 10119
Attention: Joseph Kapp

Report Date: 06/24/2024
Client Project ID: Hastings-On-Hudson Union Free School District Hastings High/Middle School
York Project (SDG) No.: 24F1130

Revision No. 1.0

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 06/24/2024
Client Project ID: Hastings-On-Hudson Union Free School District Hastings High/Middle School
York Project (SDG) No.: 24F1130

WSP USA (New York, NY)
One Penn Plaza, 2nd Floor
New York NY, 10119
Attention: Joseph Kapp

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 18, 2024 and listed below. The project was identified as your project: **Hastings-On-Hudson Union Free School District Hastings High/Middle School**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24F1130-01	01-ICENF-WB-P-02	Drinking Water	06/14/2024	06/18/2024
24F1130-02	02-255-CF-P-07	Drinking Water	06/14/2024	06/18/2024
24F1130-03	02-255-CF-P-08	Drinking Water	06/14/2024	06/18/2024

General Notes for York Project (SDG) No.: 24F1130

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By: Cassie L. Mosher

Cassie L. Mosher
Laboratory Manager

Date: 06/24/2024

Sample Information

Client Sample ID: 01-ICENF-WB-P-02 **York Sample ID:** 24F1130-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1130	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	June 14, 2024 8:27 pm	06/18/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**102**		ug/L	1.00	1	EPA 200.8	06/19/2024 08:39	06/20/2024 13:57	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 02-255-CF-P-07 **York Sample ID:** 24F1130-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1130	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	June 14, 2024 8:38 pm	06/18/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**5.75**	M-PbE X	ug/L	1.00	1	EPA 200.8	06/20/2024 09:37	06/20/2024 14:19	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 02-255-CF-P-08 **York Sample ID:** 24F1130-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F1130	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	June 14, 2024 8:40 pm	06/18/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**6.66**	M-PbE X	ug/L	1.00	1	EPA 200.8	06/20/2024 09:37	06/20/2024 14:20	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample and Data Qualifiers Relating to This Work Order

M-PbEX Lead result exceeds regulatory limit

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon current NELAC/TNI Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: This report has been revised to correct Sample IDs.

Lead (Pb) Chain of Custody

Client: Hastings-on-Hudson Union Free School District - Hastings High/Middle School

Location Sampled: Hastings High/Middle School

Date: 06/14/2024 | Address: 1 Mount Hope Blvd, Hastings-On-Hudson, NY 10706

Report To (Name): Joseph Kapp | Sampled By: Ivan Grujovic

Email Address: Joseph.Kapp@wsp.com; LB.LabResults@wsp.com; polina.pikes@wsp.com

Project Number: US0024354.4754

Turnaround Time (TAT) Options* - Please Check

3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	X 120 Hour	1 Week	2 Week

Drinking Water Preserved with HNO_3 pH < 2

Sample ID	Lab ID	Sample Description	Volume	Date/Time Sampled
01-ICENF-WB-P-01	1	Basement, Ice Room by Cochran Gym, Jg Filler NF, CF-01*	250 mL	20:27
02-255-CF-P-02	2	1st Floor, Room 255, CF, 02 (Close to door)	250 mL	20:38
02-255-CF-P-03	3	1st Floor, Room 255, CF, 03 (further from door)	250 mL	20:40
			250 mL	
			250 mL	
			250 mL	
		*Without Filter	250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	

REC LAB [illegible] 6/18/24 2005 1.6
Rec: Ramon Duran 6/18/24 18.0
Rel: Ramon Duran 6/18/24

Relinquished by:	Ivan Grujovic	Date:	06/14/2024	Time:	20:45
Received by:	[signature]	Date:	6/18/24	Time: 8:28	

Comments: A first draw sample (P) was taken at a drinking water fountain (DW) on the 3rd floor (003) outside of room 312 (312) and is the 15th outlet counted (015). DW= drinking water fountain. WB= Water Bottle Filler. CF= Classroom Sink Faucet. KF= Kitchen Faucet. BF= Bathroom Sink Faucet. NS= Nurse's Office Faucet.

Rec [signature] 6/18/24 15:27 REC-Z 6/18/24 15:27 18.2

REC-Z 18.0

Lead (Pb) Chain of Custody

Client: Hastings-on-Hudson Union Free School District - Hastings High/Middle School

Location Sampled: Hastings High/Middle School

Date: 06/14/2024 | Address: 1 Mount Hope Blvd, Hastings-On-Hudson, NY 10706

Report To (Name): Joseph Kapp | Sampled By: Ivan Grujovic

Email Address: Joseph.Kapp@wsp.com; LB.LabResults@wsp.com; polina.pikes@wsp.com

Project Number: US0024354.4754

Turnaround Time (TAT) Options* - Please Check

3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	X 120 Hour	1 Week	2 Week

Drinking Water Preserved with HNO_3 pH < 2

Sample ID	Lab ID	Sample Description	Volume	Date/Time Sampled
01-ICENF-WB-P-~~01~~	1	Basement, Ice Room by Cochran Gym, Jr Filler NF, CF-01*	250 mL	20:27
02-255-CF-P-~~02~~	2	1st Floor, Room 255, CF, ~~02~~ (close to door)	250 mL	20:38
02-255-CF-P-~~03~~	3	1st Floor, Room 255, CF, ~~03~~ (further from door)	250 mL	20:40
			250 mL	
			250 mL	
			250 mL	
			250 mL	
		*Without Filter	250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	
			250 mL	

-07 (jpk 6/24/24)

-08 (jpk 6/24/24)

-02 (jpk 6/24/24)

-07 (jpk 6/24/24)

-08 (jpk 6/24/24)

Relinquished by:	Ivan Grujovic	Date:	06/14/2024	Time:	20:45
Received by:		Date:		Time:	

Comments: A first draw sample (P) was taken at a drinking water fountain (DW) on the 3rd floor (003) outside of room 312 (312) and is the 15th outlet counted (015). DW= drinking water fountain. WB= Water Bottle Filler. CF= Classroom Sink Faucet. KF= Kitchen Faucet. BF= Bathroom Sink Faucet. NS= Nurse's Office Faucet.

Technical Report

prepared for:

WSP USA (New York, NY)
One Penn Plaza, 2nd Floor
New York NY, 10119
Attention: Joseph Kapp

Report Date: 06/20/2024
Client Project ID: Hastings-On-Hudson Union Free School District Hastings High/Middle School
York Project (SDG) No.: 24F0905

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723

Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 06/20/2024
Client Project ID: Hastings-On-Hudson Union Free School District Hastings High/Middle School
York Project (SDG) No.: 24F0905

WSP USA (New York, NY)
One Penn Plaza, 2nd Floor
New York NY, 10119
Attention: Joseph Kapp

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 13, 2024 and listed below. The project was identified as your project: **Hastings-On-Hudson Union Free School District Hastings High/Middle School**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24F0905-01	01-TRAIN-CF-P-05	Drinking Water	06/13/2024	06/13/2024
24F0905-02	01-ICE-WB-P-02	Drinking Water	06/13/2024	06/13/2024
24F0905-03	02-255-CF-P-07	Drinking Water	06/13/2024	06/13/2024
24F0905-04	03-352-CF-P-13	Drinking Water	06/13/2024	06/13/2024

General Notes for York Project (SDG) No.: 24F0905

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By:

Date: 06/20/2024

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 01-TRAIN-CF-P-05 **York Sample ID:** 24F0905-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F0905	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	June 13, 2024 5:38 am	06/13/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**3.13**		ug/L	1.00	1	EPA 200.8	06/20/2024 09:43	06/20/2024 14:44	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 01-ICE-WB-P-02 **York Sample ID:** 24F0905-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F0905	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	June 13, 2024 5:40 am	06/13/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		ug/L	1.00	1	EPA 200.8	06/20/2024 09:43	06/20/2024 14:45	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 02-255-CF-P-07 **York Sample ID:** 24F0905-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F0905	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	June 13, 2024 5:42 am	06/13/2024

Lead by EPA 200.8 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**14.0**	M-PbE X	ug/L	1.00	1	EPA 200.8	06/20/2024 09:43	06/20/2024 14:47	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 03-352-CF-P-13 **York Sample ID:** 24F0905-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F0905	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	June 13, 2024 5:55 am	06/13/2024

Sample Information

Client Sample ID: 03-352-CF-P-13 **York Sample ID:** 24F0905-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24F0905	stings-On-Hudson Union Free School District Hastings High/Middle Sch	Drinking Water	June 13, 2024 5:55 am	06/13/2024

Lead by EPA 200.8

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**31.4**	M-PbE X	ug/L	1.00	1	EPA 200.8	06/20/2024 09:43	06/20/2024 14:48	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample and Data Qualifiers Relating to This Work Order

M-PbEX Lead result exceeds regulatory limit

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon current NELAC/TNI Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

wsp

Lead (Pb) Chain of Custody

Client: Hastings-on-Hudson Union Free School District - Hastings High/Middle School

Location Sampled: Hastings High/Middle School

Date: 06/13/2024 | Address: 1 Mount Hope Blvd, Hastings-On-Hudson, NY 10706

Report To (Name): Joseph Kapp | Sampled By: Ivan Grujovic

Email Address: Joseph.Kapp@wsp.com; LB.LabResults@wsp.com; polina.pikes@wsp.com

Project Number: US0024354.4754

Turnaround Time (TAT) Options* - Please Check

3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	120 Hour	1 Week	2 Week

Drinking Water Preserved with HNO_3 pH < 2

Sample ID	Lab ID	Sample Description	Volume	Date/Time Sampled
01-TRAIN-CF-P-05	F01	Basement, Athletic Training Room, CF, 05	250 mL	05:38
01-ICE-WB-P-02	F02	Basement, Ice Room by Cochran Gym, Jug Filler, WB, 02	250 mL	05:40
02-255-CF-P-07	F03	1st Floor, Room 255, CF, 07	250 mL	05:42
~~02-252-CF-P-08~~		~~1st Floor, Room 252, CF, 08~~	~~250 mL~~	
03-352-CF-P-13	F04	2nd Floor, Room 352, CF, 13	250 mL	05:55

Relinquished by:		Ivan Grujovic	Date:	06/13/2024	Time:	05:58
Received by:		[illegible]	Date:	6/13/24	Time:	9:49

Comments: P= First draw sample DW= drinking water fountain. WB= Water Bottle Filler. CF= Classroom Sink Faucet. KF= Kitchen Faucet. BF= Bathroom Sink Faucet. NS= Nurse's Office Faucet.

6/13/24 20:20 3.7°C

Rel: Isabel Cotto 6/13/24 Rec: Ramon Duran 6/13/24 23:07

REL: MPR 6/13/24 1630 3.1°C REL: MPR 6/13/24 1750 Rec: Ramon Duran 6/13/24 2000

APPENDIX B

Laboratory ELAP Certifications

APPENDIX C

NYS DOH Lead Testing in School Drinking Water Program Reviews and Updates 2023