



RK Occupational Health & Environmental Analysis Inc.

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May 31, 2017

Ms. Florence Dolobach
Assistant to the Superintendent
Washington Borough School District
200 West Stewart Street
Washington, NJ 07882

**re: Water Sampling for Compliance with N.J.A.C. 6A:26-12.4
Lead in Drinking Water**

Dear Ms. Dolobach,

We enclose the following documents and related information for compliance with the new NJ Department of Education Regulation related to Lead in Drinking Water in school buildings:

Sampling Report Narrative	4 pages
Water Sampling Log and Results	3 pages
Notification Letter (modified from NJDEP letter template)	2 pages
Laboratory Analytical Report	45 pages

Related project documents including the Sampling Plan Drawings and Quality Assurance Project Plan will be sent separately and follow at a later date.

Since there was one (1) water sample that exceeded the 0.015 mg/L standard, the new regulation requires certain responses by the District. As noted in section 2 of the report, public notification along with completing the recommended remedial actions are required.

If you have any questions, please don't hesitate to call us.

Sincerely,

Patrick D. McGuinness, MS, P.E.
Vice President

PDM/

(file \Reports\Watertest\Washington Boro (17-040)-171)

Sampling Report - Lead in Drinking Water
Washington Borough School District

1. Sampling Results Summary

Sample Collection Date	May 17, 2017
Number of Buildings Sampled	2
Total Number of Samples Collected	34
Number of Samples with No Detectable Lead	29
Number of Samples Exceeding 5 ppb	1
Number of Samples Exceeding 15 ppb (0.015 mg/L) Standard Memorial Elementary School Fountain in Room 132	1 84 ppb

2. Required Response for Sample Results Exceeding 15 PPB Standard

The rules promulgated under the new NJDOE “Safe Drinking Water” regulation N.J.A.C. 6A:26-12.4 require certain actions by the School District when the measured Lead content in any sample results exceeds the 0.015 mg/L standard. As indicated in the summary above, this standard is equivalent to 15 parts per billion (ppb) and one sample had results in excess of this level.

Within 24 hours after the District has reviewed the sample results, the District shall provide written notification to the parents and guardians of all students attending the affected facilities. The notification must include the following:

- A description of the measures taken by the School District to immediately end use of each affected water outlet;
- If necessary, measures taken to provide alternate drinking water;
- Information regarding health effects of Lead.

Appended to this report is a sample notification letter. It was taken from a template created by the NJDOE and has been modified to include our recommended responses as shown below:

Sample Location	Results ($\mu\text{g/l}$ or ppb)	Remedial Action - Recommended
Memorial Elementary School Fountain in Room 132	84	Outlet has been turned off and will not be used. Alternate sources of water are available nearby the classroom. The outlet is planned to be replaced sometime during Summer recess; the water outlet will be re-sampled and returned to service only acceptable Lead results are obtained.

3. Water Sampling Procedures

Sampling protocols and procedures follow the EPA “3-T’s Program” that was developed for schools and Child Care centers. They recognize that the typical school building is actually a conglomeration

of an original building with one or more additions, each of which typically having different plumbing system materials.

In addition, building sections constructed before 1986 likely have plumbing systems that used leaded solders on Copper water lines. Very old buildings and public water supply systems may also still have lead piping. Other potential sources of Lead in drinking water systems include brass faucets, fittings, and valves that are used in the municipal and building piping distribution systems. It is important to note that “Lead-Free” plumbing components used since 1986 may actually contain up to 8% Lead by weight. In January 2014, this limit was lowered from 8% to 0.2% Lead.

The sampling protocol requires that water be collected as a “First-Draw” to ensure that the water sample has been standing for at least 8 hours. This is intended to replicate a “worst-case” situation since both the Lead and Copper levels are usually lowered significantly after running the water even for a few moments.

Drinking water samples were collected early on a weekday or Saturday morning before staff and students arrived for classes to represent water that has sat idle in the building piping system overnight.

Laboratory analysis of the water samples was performed for both Lead and Copper since both could be sourced from the building plumbing and both are indicators of water system corrosion.

All samples were collected in 250 ml contaminant-free containers. Laboratory analysis of the water samples was performed by Analytical Laboratory Services, Inc. of Middletown, PA (NJ DEP Certification No. PA010). The analytical method is per EPA 600/4-79-020, Method 200.8 via atomic absorption, platform furnace technique.

4. Sample Results and Discussion

Sampling results are discussed below. Water sampling logs and the complete laboratory analytical report are appended to this report. All results are expressed as milligrams of Lead or Copper per liter of water (mg/L) and compared against the current 0.015 mg/L Action Level. Results could also be expressed in equivalent terms of parts per billion (ppb) where the Action level translates to 15 ppb.

A total of 34 water samples were collected on May 17, 2017. As noted above, one (1) sample result exceeded the 0.015 mg/L Action Level. However, 29 of the 34 water samples had no detectable levels of lead present. These sample results indicate that the potable water supply is not aggressive as it relates to its ability to draw either Lead or Copper from the water distribution piping system.

5. Additional Recommendations and Future Work

All but one (1) water sample result showed acceptable results for Lead content. The following responses include those required by N.J.A.C. 6A:26-12.4 and our recommendations to maintain the drinking water quality as it relates to Lead contamination.

The NJDOE regulations requires that:

- These sampling results be made publically available at the school building and on the School District's website.
- The School District shall collect drinking water samples and analyze for Lead at any drinking water outlet that has been replaced or after any alterations to the plumbing or service lines to the outlet. Do not consume or cook with water from the affected outlet until acceptable Lead results are obtained.
- Repeat water sampling within 6 years or before July 2023.

In addition, we suggest that the following responses to minimize the potential for Lead contamination of drinking water:

Administrative Responses:

- There are several factors that influence the Lead corrosion potential in drinking water piping systems. These include the chemistry of the water supplied to the building, temperature and water velocity, the age and condition of the plumbing, and the amount of time the water sits "stagnant" in contact with piping and drinking water fixtures. This last factor is the only one that a building owner has any control over.
- School building codes require a minimum of one (1) drinking water tap for every 100 students of building capacity. Wherever a larger number of water taps exists, the usage factor for each tap decreases. This, in turn, increases the "stagnation time" along with the increased potential for Lead corrosion. It is recommended that the need for all the water taps be investigated and reduced where appropriate while maintaining the minimum of 1 tap per 100 students.
- Consider implementing a program to shut-off and replace (if needed) any drinking water fixture or appliance that is more than 30 years old (was installed before the 1986 Lead Ban took effect).

Operational and Maintenance Responses:

- It is recommended that the one (1) water tap where the measured Lead content exceeded 5 parts per billion (ppb) or 0.005 mg/L be inspected and cleaned of line sediment to eliminate potential sources of Lead contamination.
- Use cold water only for drinking or cooking. As noted above, higher water temperature can increase its corrosion potential.
- As noted above, the accumulation of line sediment on aerators and screens at the water taps is frequently the cause of higher measured levels of both Lead and Copper. It is recommended that a program be established to regularly inspect for the presence of line sediment at all drinking water taps. Initially, an annual inspection is suggested. The inspection frequency should then be adjusted depending upon the amounts of sediment

that is found and where it is found. Higher usage taps may accumulate sediment more quickly and need to be cleaned more often.

- It is known that flushing water through drinking water taps will reduce the levels of both Lead and Copper present in the drinking water. It is also recommended that a program be established to run water at all drinking or cooking taps for at least one minute before students and staff return to school after long breaks, especially after the Summer recess.

Report prepared by:



Patrick D. McGuinness, MS, P.E.
Vice President

Water Sampling Log

Name of Building
Building Owner

Memorial Elementary School
Washington Borough Bd of Educ

Date Collected 17-May-17
Sample Collected by TJ McGuinness

Sample No.	Tap No.	Sample Type	Type of Outlet	Manufacturer	Sample Location	Time	Cu	Pb	Results (mg/L)
051717-01	1	1st	Chiller		Outside gym	05:20	0.063	ND	
051717-02	2	1st	Chiller		Outside gym in hall	05:21	0.20	ND	
051717-03	3	1st	Chiller		Hallway across from room 100A	05:22	0.057	ND	
051717-04	4	1st	Fountain		Room 132 (low flow)	05:24	0.074	0.084	
051717-05	5	1st	Fountain		Room 112	05:25	0.081	0.0027	
051717-06	6	1st	Fountain		Room 113	05:26	0.046	ND	
051717-07	7	1st	Fountain		Room 131	05:27	0.045	ND	
051717-08	8	1st	Fountain		Room 130	05:29	0.049	ND	
051717-09	9	1st	Fountain		Room 114	05:30	0.046	ND	
051717-10	10	1st	Sink		Kitchen cooking sink	05:31	0.082	ND	
051717-11	11	1st	Sink		Kitchen cooking sink right	05:32	0.10	0.0033	
051717-12	12	1st	Fountain		Room 129	05:33	0.070	ND	
051717-13	13	1st	Sink		Nurse	05:34	0.042	ND	
051717-14	14	1st	Sink		Faculty Women (119)	05:35	0.042	ND	
051717-15	15	1st	Sink		Faculty men (119)	05:36	0.048	ND	
051717-16	16	1st	Fountain		Art room 116	05:37	0.059	ND	
051717-17	17	1st	Bubbler		Hall next to library left	05:38	0.042	ND	
051717-18	18	1st	Bubbler		Hall next to library right	05:40	0.043	ND	
051717-19	19	1st	Sink		Library office	05:51	0.069	0.0034	
051717-20	20	1st	Fountain		Room 120	05:42	0.071	ND	

Sample Type:
1st: First Draw sample collected after water sat in pipe between 8 and 18 hours
FL: Water flushed through tap for at least 2 minutes
ND: means Not Detected at or above the Reliability Detection Limit (RDL) of 0.0020 mg/L for Lead.

Water Sampling Log

Name of Building Memorial Elementary School
Building Owner Washington Borough Bd of Educ

Date Collected 17-May-17
Sample Collected by TJ McGuinness

Sample Type: 1st: First Draw sample collected after water sat in pipe between 8 and 18 hours

FL: Water flushed through tap for at least 2 minutes

ND: means Not Detected at or above the Reliability Detection Limit (RDL) of 0.0020 mg/L for Lead.

Water Sampling Log

Name of Building Taylor Street Elementary School
Building Owner Washington Borough Bd of Educ

Date Collected 17-May-17
Sample Collected by TJ McGuinness

Sample Type: 1st: First Draw sample collected after water sat in pipe between 8 and 18 hours

WFL: Water flushed through tap for at least 2 minutes

RDL: means Not Detected at or above the Reliability Detection Limit (RDL) of 0.0020 mg/L for Lead.

May 31, 2017

Washington Borough School District

Dear School Community,

Our school system is committed to protecting student, teacher, and staff health. To protect our community and be in compliance with the Department of Education regulations, the Washington Borough School District began testing our schools' drinking water for lead.

In accordance with the Department of Education regulations, the District has implemented immediate remedial measures for any drinking water outlet with a result greater than the action level of 15 µg/l (parts per billion [ppb]). This includes turning off the outlet, providing an alternate water source, and leaving the outlet off until re-sampling shows results below the action level.

Results of our Testing

Following instructions given in technical guidance developed by the New Jersey Department of Environmental Protection, we completed a plumbing profile for our building. Through this effort, we identified and tested all drinking water and food preparation outlets. Of the 34 samples taken, all but 1 tested below the lead action level established by the US Environmental Protection Agency for lead in drinking water (15 µg/l [ppb]).

The table below identifies the drinking water outlets that tested above the 15 µg/l for lead on a 1st-Draw sample, the actual lead level, and what temporary remedial action has taken to reduce the levels of lead at these locations.

Sample Location	Results (µg/l or ppb)	Remedial Action
Memorial Elementary School – Fountain in Room 132	84	Outlet has been turned off and will not be used. Alternate sources of water are available nearby the classroom. The outlet is planned to be replaced sometime during Summer recess; the water outlet will be re-sampled and returned to service only acceptable Lead results are obtained.

The water tap at the locations where sampling results exceed the lead action level established by the US Environmental Protection Agency for lead in drinking water (15 µg/l [ppb]) has been taken out of service. This location will not be returned to active service until an acceptable sampling result for lead is obtained there.

Health Effects of Lead

High levels of lead in drinking water can cause health problems. Lead is most dangerous for pregnant women, infants, and children under 6 years of age. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of

your body. Exposure to high levels of lead during pregnancy contributes to low birth weight and developmental delays in infants. In young children, lead exposure can lower IQ levels, affect hearing, reduce attention span, and hurt school performance. At *very* high levels, lead can even cause brain damage. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

How Lead Enters our Water

Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like groundwater, rivers and lakes. Lead enters drinking water primarily as a result of the corrosion, or wearing away, of materials containing lead in the water distribution system and in building plumbing. These materials include lead-based solder used to join copper pipe, brass, and chrome-plated brass faucets. In 1986, Congress banned the use of lead solder containing greater than 0.2% lead, and restricted the lead content of faucets, pipes and other plumbing materials. However, even the lead in plumbing materials meeting these new requirements is subject to corrosion. When water stands in lead pipes or plumbing systems containing lead for several hours or more, the lead may dissolve into the drinking water. This means the first water drawn from the tap in the morning *may* contain fairly high levels of lead.

Lead in Drinking Water

Lead in drinking water, although rarely the sole cause of lead poisoning can significantly increase a person's total lead exposure, particularly the exposure of children under the age of 6. EPA estimates that drinking water can make up 20% or more of a person's total exposure to lead.

For More Information

A copy of the test results is available in our central office for inspection by the public, including students, teachers, other school personnel, and parents, and can be viewed between the hours of 8:30 a.m. and 4:00 p.m. and are also available on our website at [Website Address]. For more information about water quality in our schools, contact [Name of Contact] at the [School Department Name], [Phone Number].

For more information on reducing lead exposure around your home and the health effects of lead, visit EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

If you are concerned about lead exposure at this facility or in your home, you may want to ask your health care providers about testing children to determine levels of lead in their blood.

Sincerely,

[Name]
Superintendent of Schools



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

May 26, 2017

Mr. Patrick McGuinness
RK Occ. & Env. Analysis, Inc.
401 St. James Avenue
Phillipsburg, NJ 08865

Certificate of Analysis

Project Name:	Lead & Copper in DW	Workorder:	2232135
Purchase Order:		Workorder ID:	17-040 Washington Boro Bd of E

Dear Mr. McGuinness:

Enclosed are the analytical results for samples received by the laboratory on Friday, May 19, 2017.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

Ms. Shannon Butler
Project Coordinator

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

SAMPLE SUMMARY

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2232135001	051717-01	Drinking Water	5/17/2017 05:20	5/19/2017 15:55	Collected by Client
2232135002	051717-02	Drinking Water	5/17/2017 05:21	5/19/2017 15:55	Collected by Client
2232135003	051717-03	Drinking Water	5/17/2017 05:22	5/19/2017 15:55	Collected by Client
2232135004	051717-04	Drinking Water	5/17/2017 05:24	5/19/2017 15:55	Collected by Client
2232135005	051717-05	Drinking Water	5/17/2017 05:25	5/19/2017 15:55	Collected by Client
2232135006	051717-06	Drinking Water	5/17/2017 05:26	5/19/2017 15:55	Collected by Client
2232135007	051717-07	Drinking Water	5/17/2017 05:27	5/19/2017 15:55	Collected by Client
2232135008	051717-08	Drinking Water	5/17/2017 05:29	5/19/2017 15:55	Collected by Client
2232135009	051717-09	Drinking Water	5/17/2017 05:30	5/19/2017 15:55	Collected by Client
2232135010	051717-10	Drinking Water	5/17/2017 05:31	5/19/2017 15:55	Collected by Client
2232135011	051717-11	Drinking Water	5/17/2017 05:32	5/19/2017 15:55	Collected by Client
2232135012	051717-12	Drinking Water	5/17/2017 05:33	5/19/2017 15:55	Collected by Client
2232135013	051717-13	Drinking Water	5/17/2017 05:34	5/19/2017 15:55	Collected by Client
2232135014	051717-14	Drinking Water	5/17/2017 05:35	5/19/2017 15:55	Collected by Client
2232135015	051717-15	Drinking Water	5/17/2017 05:36	5/19/2017 15:55	Collected by Client
2232135016	051717-16	Drinking Water	5/17/2017 05:37	5/19/2017 15:55	Collected by Client
2232135017	051717-17	Drinking Water	5/17/2017 05:38	5/19/2017 15:55	Collected by Client
2232135018	051717-18	Drinking Water	5/17/2017 05:40	5/19/2017 15:55	Collected by Client
2232135019	051717-19	Drinking Water	5/17/2017 05:41	5/19/2017 15:55	Collected by Client
2232135020	051717-20	Drinking Water	5/17/2017 05:42	5/19/2017 15:55	Collected by Client
2232135021	051717-21	Drinking Water	5/17/2017 05:43	5/19/2017 15:55	Collected by Client
2232135022	051717-22	Drinking Water	5/17/2017 05:45	5/19/2017 15:55	Collected by Client
2232135023	051717-23	Drinking Water	5/17/2017 05:46	5/19/2017 15:55	Collected by Client
2232135024	051717-24	Drinking Water	5/17/2017 05:47	5/19/2017 15:55	Collected by Client
2232135025	051717-25	Drinking Water	5/17/2017 05:48	5/19/2017 15:55	Collected by Client
2232135026	051717-26	Drinking Water	5/17/2017 05:49	5/19/2017 15:55	Collected by Client
2232135027	051717-27	Drinking Water	5/17/2017 06:00	5/19/2017 15:55	Collected by Client
2232135028	051717-28	Drinking Water	5/17/2017 06:01	5/19/2017 15:55	Collected by Client
2232135029	051717-29	Drinking Water	5/17/2017 06:03	5/19/2017 15:55	Collected by Client
2232135030	051717-30	Drinking Water	5/17/2017 06:05	5/19/2017 15:55	Collected by Client
2232135031	051717-31	Drinking Water	5/17/2017 06:06	5/19/2017 15:55	Collected by Client
2232135032	051717-32	Drinking Water	5/17/2017 06:09	5/19/2017 15:55	Collected by Client
2232135033	051717-33	Drinking Water	5/17/2017 06:11	5/19/2017 15:55	Collected by Client
2232135034	051717-34	Drinking Water	5/17/2017 06:12	5/19/2017 15:55	Collected by Client

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

SAMPLE SUMMARY

Workorder: 2232135 17-040 Washington Boro Bd of E

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135001** Date Collected: 5/17/2017 05:20 Matrix: Drinking Water
Sample ID: **051717-01** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.063		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:14 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:14 MO	A1

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135002** Date Collected: 5/17/2017 05:21 Matrix: Drinking Water
Sample ID: **051717-02** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.20		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:17 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:17 MO	A1

Ms. Shannon Butler
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135003** Date Collected: 5/17/2017 05:22 Matrix: Drinking Water
Sample ID: **051717-03** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.057		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:20 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:20 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135004** Date Collected: 5/17/2017 05:24 Matrix: Drinking Water
Sample ID: **051717-04** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.074		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:23 MO	A1
Lead, Total	0.084		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:23 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135005** Date Collected: 5/17/2017 05:25 Matrix: Drinking Water
Sample ID: **051717-05** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.081		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:25 MO	A1
Lead, Total	0.0027		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:25 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135006** Date Collected: 5/17/2017 05:26 Matrix: Drinking Water
Sample ID: **051717-06** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.046		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:33 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:33 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135007** Date Collected: 5/17/2017 05:27 Matrix: Drinking Water
Sample ID: **051717-07** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.045		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:36 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:36 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135008** Date Collected: 5/17/2017 05:29 Matrix: Drinking Water
Sample ID: **051717-08** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.049		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:39 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:39 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135009** Date Collected: 5/17/2017 05:30 Matrix: Drinking Water
Sample ID: **051717-09** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.046		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:41 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:41 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135010** Date Collected: 5/17/2017 05:31 Matrix: Drinking Water
Sample ID: **051717-10** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Entered By	Cntr
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METALS

Copper, Total	0.082		mg/L	0.0050	EPA 200.8	5/25/17 13:43	MO	5/25/17 18:44	MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43	MO	5/25/17 18:44	MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135011** Date Collected: 5/17/2017 05:32 Matrix: Drinking Water
Sample ID: **051717-11** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.10		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:52 MO	A1
Lead, Total	0.0033		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:52 MO	A1

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Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135012** Date Collected: 5/17/2017 05:33 Matrix: Drinking Water
Sample ID: **051717-12** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.070		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:55 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:55 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135013** Date Collected: 5/17/2017 05:34 Matrix: Drinking Water
Sample ID: **051717-13** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.042		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:57 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 18:57 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135014** Date Collected: 5/17/2017 05:35 Matrix: Drinking Water
Sample ID: **051717-14** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.042		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 19:05 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 19:05 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135015** Date Collected: 5/17/2017 05:36 Matrix: Drinking Water
Sample ID: **051717-15** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.048		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 19:08 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 19:08 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID:	2232135016	Date Collected:	5/17/2017 05:37	Matrix:	Drinking Water
Sample ID:	051717-16	Date Received:	5/19/2017 15:55		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.059	mg/L	0.0050	EPA 200.8	5/25/17 13:43	MO	5/25/17 19:11	MO	A1
Lead, Total	ND	mg/L	0.0020	EPA 200.8	5/25/17 13:43	MO	5/25/17 19:11	MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135017** Date Collected: 5/17/2017 05:38 Matrix: Drinking Water
Sample ID: **051717-17** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.042		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 19:13 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 19:13 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135018** Date Collected: 5/17/2017 05:40 Matrix: Drinking Water
Sample ID: **051717-18** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.043		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 19:16 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 19:16 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135019** Date Collected: 5/17/2017 05:41 Matrix: Drinking Water
Sample ID: **051717-19** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Entered By	Cntr
METALS									
Copper, Total	0.069		mg/L	0.0050	EPA 200.8	5/25/17 13:43 MO	5/25/17 19:19 MO	5/25/17 19:19 MO	A1
Lead, Total	0.0034		mg/L	0.0020	EPA 200.8	5/25/17 13:43 MO	5/25/17 19:19 MO	5/25/17 19:19 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135020** Date Collected: 5/17/2017 05:42 Matrix: Drinking Water
Sample ID: **051717-20** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.071		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:21 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:21 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135021** Date Collected: 5/17/2017 05:43 Matrix: Drinking Water
Sample ID: **051717-21** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.076		mg/L	0.0050	EPA 200.8	5/25/17 13:45	MO	5/25/17 19:29	MO	A1
Lead, Total	0.0053		mg/L	0.0020	EPA 200.8	5/25/17 13:45	MO	5/25/17 19:29	MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135022** Date Collected: 5/17/2017 05:45 Matrix: Drinking Water
Sample ID: **051717-22** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.067		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:37 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:37 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135023** Date Collected: 5/17/2017 05:46 Matrix: Drinking Water
Sample ID: **051717-23** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.071		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:40 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:40 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135024** Date Collected: 5/17/2017 05:47 Matrix: Drinking Water
Sample ID: **051717-24** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By Cntr
METALS								
Copper, Total	0.073		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:43 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:43 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135025** Date Collected: 5/17/2017 05:48 Matrix: Drinking Water
Sample ID: **051717-25** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr
METALS									
Copper, Total	0.052		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:45 MO	A1	
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:45 MO	A1	

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135026** Date Collected: 5/17/2017 05:49 Matrix: Drinking Water
Sample ID: **051717-26** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.071		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:48 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:48 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135027** Date Collected: 5/17/2017 06:00 Matrix: Drinking Water
Sample ID: **051717-27** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.30		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:51 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:51 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135028** Date Collected: 5/17/2017 06:01 Matrix: Drinking Water
Sample ID: **051717-28** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.22		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:53 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:53 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135029** Date Collected: 5/17/2017 06:03 Matrix: Drinking Water
Sample ID: **051717-29** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By Cntr
METALS								
Copper, Total	0.19		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:56 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:56 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135030** Date Collected: 5/17/2017 06:05 Matrix: Drinking Water
Sample ID: **051717-30** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.13		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:59 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 19:59 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135031** Date Collected: 5/17/2017 06:06 Matrix: Drinking Water
Sample ID: **051717-31** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr
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METALS

Copper, Total	0.23		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 20:12 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 20:12 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135032** Date Collected: 5/17/2017 06:09 Matrix: Drinking Water
Sample ID: **051717-32** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.18		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 20:15 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 20:15 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135033** Date Collected: 5/17/2017 06:11 Matrix: Drinking Water
Sample ID: **051717-33** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Copper, Total	0.098		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 20:18 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 20:18 MO	A1

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ANALYTICAL RESULTS

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID: **2232135034** Date Collected: 5/17/2017 06:12 Matrix: Drinking Water
Sample ID: **051717-34** Date Received: 5/19/2017 15:55

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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METALS

Copper, Total	0.32		mg/L	0.0050	EPA 200.8	5/25/17 13:45 MO	5/25/17 20:20 MO	A1
Lead, Total	ND		mg/L	0.0020	EPA 200.8	5/25/17 13:45 MO	5/25/17 20:20 MO	A1

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QUALITY CONTROL DATA

Workorder: 2232135 17-040 Washington Boro Bd of E

QC Batch: MDIG/65040 Analysis Method: EPA 200.8

QC Batch Method: EPA ACIDT

Associated Lab Samples: 2232135001, 2232135002, 2232135003, 2232135004, 2232135005, 2232135006, 2232135007, 2232135008, 2232135009, 2232135010, 2232135011, 2232135012, 2232135013, 2232135014, 2232135015, 2232135016

METHOD BLANK: 2544631

Parameter	Blank Result	Units	Reporting Limit
Copper, Total	ND	mg/L	0.0050
Lead, Total	ND	mg/L	0.0020

LABORATORY CONTROL SAMPLE: 2544632

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Copper, Total	102	mg/L	.1	0.10	85 - 115
Lead, Total	103	mg/L	.005	0.0051	85 - 115

MATRIX SPIKE: 2544633 DUPLICATE: 2544634 ORIGINAL: 2232131012

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Copper, Total	.0695	mg/L	.1	.16203	.16478	92.5	95.3	70 - 130	1.68	20
Lead, Total	.00069	mg/L	.1	.09886	.09878	98.2	98.1	70 - 130	.08	20

MATRIX SPIKE: 2544635 DUPLICATE: 2544636 ORIGINAL: 2232135010

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Copper, Total	.08232	mg/L	.1	.17655	.17565	94.2	93.3	70 - 130	.51	20
Lead, Total	.00049	mg/L	.1	.09723	.09753	96.7	97	70 - 130	.31	20

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QUALITY CONTROL DATA

Workorder: 2232135 17-040 Washington Boro Bd of E

QC Batch: MDIG/65041 Analysis Method: EPA 200.8

QC Batch Method: EPA ACIDT

Associated Lab Samples: 2232135020, 2232135021, 2232135022, 2232135023, 2232135024, 2232135025, 2232135026, 2232135027, 2232135028, 2232135029, 2232135030, 2232135031, 2232135032, 2232135033, 2232135034

METHOD BLANK: 2544637

Parameter	Blank Result	Units	Reporting Limit
Copper, Total	ND	mg/L	0.0050
Lead, Total	ND	mg/L	0.0020

LABORATORY CONTROL SAMPLE: 2544638

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Copper, Total	101	mg/L	.1	0.10	85 - 115
Lead, Total	102	mg/L	.005	0.0051	85 - 115

MATRIX SPIKE: 2544639 DUPLICATE: 2544640 ORIGINAL: 2232135020

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Copper, Total	.07095	mg/L	.1	.16633	.16536	95.4	94.4	70 - 130	.58	20
Lead, Total	.00096	mg/L	.1	.09757	.09836	96.6	97.4	70 - 130	.81	20

MATRIX SPIKE: 2544641 DUPLICATE: 2544642 ORIGINAL: 2232135030

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Copper, Total	.1311	mg/L	.1	.22486	.22203	93.8	90.9	70 - 130	1.27	20
Lead, Total	.00079	mg/L	.1	.09856	.097	97.8	96.2	70 - 130	1.6	20

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2232135001	051717-01	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135002	051717-02	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135003	051717-03	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135004	051717-04	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135005	051717-05	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135006	051717-06	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135007	051717-07	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135008	051717-08	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135009	051717-09	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135010	051717-10	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135011	051717-11	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135012	051717-12	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135013	051717-13	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135014	051717-14	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135015	051717-15	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135016	051717-16	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135017	051717-17	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135018	051717-18	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135019	051717-19	EPA ACIDT	MDIG/65040	EPA 200.8	META/57478
2232135020	051717-20	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478
2232135021	051717-21	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478
2232135022	051717-22	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478
2232135023	051717-23	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478
2232135024	051717-24	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478
2232135025	051717-25	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478
2232135026	051717-26	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478
2232135027	051717-27	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478
2232135028	051717-28	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478
2232135029	051717-29	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478
2232135030	051717-30	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478
2232135031	051717-31	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478
2232135032	051717-32	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478

ALS Environmental Laboratory Locations Across North America

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ALS Environmental



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ www.alsglobal.com

NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: DE ID 11 , MA PA0102 , MD 128 , VA 460157 , WV 343

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2232135 17-040 Washington Boro Bd of E

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
2232135033	051717-33	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478
2232135034	051717-34	EPA ACIDT	MDIG/65041	EPA 200.8	META/57478

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CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER INSTRUCTIONS ON THE BACK.**

Generated by ALS

1	of	4

Client Name: RK Occupational & Environmental Analysis		Container Type	PL	Receipt Information (Completed by Receiving Lab)				
Address:	401 St James Avenue	Container Size	250 ml	Cooler Temp:	3	Therm ID:	318	
Contact:	PD McGuinness	Preservative	HNO ₃	No. of Coolers:	Y	N	Initial	
Phone#:	908-454-6316					Custody Seal Present?		
Project Name:	17-040 Washington Boro Bd of Educ					(If present) Seal(s) Intact?		
Bill To: Same					COCULabels Complete/Accurate?			
TAT <input checked="" type="checkbox"/> Normal-Standard TAT is 10-12 business days.					Cont. in Good Cond?			
<input type="checkbox"/> Rush-Subject to ALS approval and surcharges.					Correct Containers?			
Date Required:	Approved By:					Correct Sample Volumes?		
Email? <input checked="" type="checkbox"/> Y	pdm.mcguinness@enter.net					Correct Preservation?		
Fax? <input type="checkbox"/> Y	No.: _____					Headspace Volumes?		
Sample Description/Location (as it will appear on the lab report)		Sample Date	Time	9	... Matrix	9	Enter Number of Containers Per Sample or Field Results Below.	
051717-01		5/17/2017	05:20	G	DW	1		
051717-02		5/17/2017	05:21	G	DW	1		
051717-03		5/17/2017	05:22	G	DW	1		
051717-04	*	5/17/2017	05:24	G	DW	1		
051717-05		5/17/2017	05:25	G	DW	1		
051717-06		5/17/2017	05:26	G	DW	1		
051717-07		5/17/2017	05:27	G	DW	1		
051717-08		5/17/2017	05:29	G	DW	1		
051717-09		5/17/2017	05:30	G	DW	1		
051717-10		5/17/2017	05:31	G	DW	1		
Project Comments: Memorial Elementary School		Logged In (Signature): <u>SES 5/23/17 1351</u>				REVIEWED BY (Signature): <u>SES 5/23/17 1351</u>		
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	
1 <u>P.McGuinness</u>		5/17/17	1400	ALS		5/17/17	1200	
3 <u>SES</u>		5/17/17	1555	ALS		5/17/17	1200	
5				6				
7				8				
9				10				
Copies: WHITE - ORIGINAL						EDDS: Format Type: MS Excel File		
**G=Grab, C=Composite						State Samples Collected In		
**M=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SW=Wastewater						USACE	NY	
Copies: PINK - FILE CANARY - CUSTOMER MAILING						USACE	NJ	
Copies: GOLDENROD - CUSTOMER COPY						MS Excel File	PA	
						Yes <input type="checkbox"/>	NC	
						PWSID #	MD	
						Special		

