



Lead Testing in Drinking Water

Site:
Rossville-Alvin Elementary School
350 N. Chicago Street
Rossville, IL 60963

Local Education Agency:
Rossville-Alvin C.U.S.D. 7

Completion Date:
November 8, 2017



Public Act 099-0922

Public Act 099-0922, was passed into law in January 2017. The Act requires the Local Education Agency (LEA) to test for lead in all water sources used for cooking and drinking in schools built on or before January 1, 2000, where more than 10 pre-kindergarten through 5th grade children are present. The timeframe for compliance is December 31, 2017, for buildings constructed prior to January 1, 1987; and December 31, 2018, for those built between January 2, 1987 and January 1, 2000. Water samples are required to be analyzed by a method approved by the Illinois Environmental Protection Agency (IEPA) that provides a minimum reporting limit of 2 parts per billion (ppb). Notifications are required. Mitigation may be required based on test results. A Water Quality Management Plan (WQMP) is required.

Scope of Service

On November 8, 2017, Ideal Environmental Engineering (IDEAL) performed water sampling at Rossville-Alvin Elementary School in Rossville, IL at the request of the LEA. The water source locations were provided to IDEAL by the LEA.

Purpose of Sampling

Rossville-Alvin Elementary School is a facility built prior to January 1, 2000, where pre-K through 5th grade students are present. The water was tested to identify possible lead contamination for compliance with Public Act 099-0922.

Sampling Methodology

Prior to sampling, in order to verify that the required 8-18 hour water stagnation period had been met, school personnel provided IDEAL's water collector with the date and time the plumbing system had last been used. The date and time provided are recorded on the chain of custody (COC).

For each water source identified by the LEA, a first-draw 250 milliliter (mL) sample of cold water was collected in a bottle provided by an IEPA-approved laboratory. A first-draw sample is the first amount of water collected from a source. After the first draw was collected, the source was flushed for 30 seconds, followed by the collection of a second-draw 250 mL sample of water. This second sample is called a flush sample. If multiple faucets use the same drain, only one second-draw (flush) sample may have been collected.

Each bottle was placed in a position that allowed for the collection of all of the water. Care was taken to prevent overflow. Each bottle was labeled with a unique identifier (sample ID). The sample ID was recorded on the COC, which lists the location of the sample, source of the sample, and the date and time the sample was collected.

The water bottles were delivered—with the COC to show the relinquishment and receipt of the samples—to an IEPA-accredited laboratory for analysis. The laboratory's accreditation was reviewed by IDEAL to ensure that it was current for an IEPA-approved method of analysis for lead in drinking water.



Summary of Sampling

20 water samples were collected from 10 sources. All results are shown in Table 1.1.

Table 1.1

| Sample ID | Sample Location Description | Fixture Type | Sample Type | Concentration |
|--------------------|------------------------------------|------------------------|--------------------|----------------------|
| 01a | Kitchen - Prep - Northeast | KS - Kitchen Sink | First Draw | ND |
| 01b | Kitchen - Prep - Northeast | KS - Kitchen Sink | Flush | ND |
| 02a | Kitchen - Prep - Southeast | KS - Kitchen Sink | First Draw | 3.08 ppb |
| 02b | Kitchen - Prep - Southeast | KS - Kitchen Sink | Flush | ND |
| 03a | Kitchen Prep - Sprayer | O - Other | First Draw | ND |
| 03b | Kitchen Prep - Sprayer | O - Other | Flush | ND |
| 04a | Kitchen Prep - Northwest | KS - Kitchen Sink | First Draw | 2.84 ppb |
| 04b | Kitchen Prep - Northwest | KS - Kitchen Sink | Flush | ND |
| 05a | Kitchen Prep - Southwest | KS - Kitchen Sink | First Draw | 2.78 ppb |
| 05b | Kitchen Prep - Southwest | KS - Kitchen Sink | Flush | ND |
| 06a | pre-K | S - Sink | First Draw | ND |
| 06b | pre-K | S - Sink | Flush | ND |
| 07a | Outside of Office | DF - Drinking Fountain | First Draw | ND |
| 07b | Outside of Office | DF - Drinking Fountain | Flush | ND |
| 08a | Outside of Men's Restroom | DF - Drinking Fountain | First Draw | ND |
| 08b | Outside of Men's Restroom | DF - Drinking Fountain | Flush | ND |
| 09a | Outside of Gym | DF - Drinking Fountain | First Draw | ND |
| 09b | Outside of Gym | DF - Drinking Fountain | Flush | ND |
| 10a | 2nd Floor Corridor | DF - Drinking Fountain | First Draw | ND |
| 10b | 2nd Floor Corridor | DF - Drinking Fountain | Flush | ND |
| ND = None Detected | | | | |



Notifications

This building is subject to the Act. Notification as outlined below is not optional.

Notification Requirements:

The Illinois Department of Public Health (IDPH) must be informed of the results. The LEA is also required to provide notification of all water testing results to parents and legal guardians of all enrolled students. Notification can be done, at a minimum, on the school's website. In addition, when any test result exceeds 5 ppb, individual written or electronic notification is required to be sent to parents and legal guardians of all enrolled students and must include the location and source exceeding 5 ppb, and the USEPA website for information about lead in drinking water: www.epa.gov/ground-water-and-drinking-water/basic-information-about-lead-drinking-water

Based on sample results, the following are notification requirements for this building:

- Submit to IDPH at dph.leadh2O@illinois.gov all sample results as shown in Table 1.1. As a courtesy, this step has been done by IDEAL. Please refer to Appendix A for electronic transmittal(s).
- Provide to parents and legal guardians all sample results as shown in Table 1.1. This can be done, at a minimum, on the school's website.



Mitigation

This building is subject to the Act. Mitigation is not optional.

Mitigation Requirements:

IDPH requires mitigation when lead is found in a sample above the minimum reporting limit (2 ppb). They recommend the sampling source be removed from service immediately upon learning that it has tested positive for lead. Re-testing is required after mitigation unless the sampling source is taken out of service. Mitigation is to continue until subsequent testing indicates lead levels are below the minimum reporting limit.

Based on sample results, the following are mitigation requirements for this building:

- Results shown in Table 1.3 were found to contain lead at or above the 2 ppb minimum reporting limit. Mitigate all sources identified in Table 1.3, and retest after mitigation is complete.

Refer to IDPH's website for mitigation strategies:

www.dph.illinois.gov/sites/default/files/publications/school-lead-mitigation-strategies-050917.pdf

Table 1.3 – Results over 2 ppb

| Sample ID | Sample Location Description | Fixture Type | Sample Type | Concentration |
|-----------|-----------------------------|-------------------|-------------|---------------|
| 02a | Kitchen - Prep - Southeast | KS - Kitchen Sink | First Draw | 3.08 ppb |
| 04a | Kitchen Prep - Northwest | KS - Kitchen Sink | First Draw | 2.84 ppb |
| 05a | Kitchen Prep - Southwest | KS - Kitchen Sink | First Draw | 2.78 ppb |



Water Quality Management Plan

For all schools subject to the Act, regardless of lead results, a Water Quality Management Plan (WQMP) must be developed and maintained.

The need for re-testing after mitigation may be affected by the WQMP.

Refer to IDPH's website for steps to an effective WQMP:

www.dph.illinois.gov/sites/default/files/publications/school-lead-mitigation-strategies-050917.pdf

General Comments

Refer to Appendix C for the complete analysis report, including chain of custody and laboratory accreditation.

This report is based strictly on Illinois Public Act 099-0922. You may also wish to refer to the EPA's *3 T's for Reducing Lead in Drinking Water* for additional guidance.

IDEAL sampled according to accepted protocol for this project (unless otherwise noted by limitations in the description of the scope of work) and based on our interpretation of the regulations affecting schools. IDEAL shall not be held liable if sources are re-sampled and found to contain lead.

Room numbers, room dimensions, occupant names, building years, etc. may not be accurate in this report if information provided to us, such as on a diagram, was not current.

This report shall not be reproduced, except in full, without the written consent of IDEAL. Record retention by IDEAL is not guaranteed. IDEAL reserves the right to provide copies of chains of custody rather than originals, as the originals will only be archived for a limited period of time.

The scope of work presented in this report was based on an understanding between IDEAL and the client, whether the understanding was from verbal conversation or written document(s). The scope of work and report shall be deemed accepted by the client unless the client advises to the contrary in writing within 10 days of the date this report is sent.

Please call our office at (800)535-0964 or (309)828-4259 if you have any questions, or if we can be of further assistance with your mitigation, water retesting, the WQMP, or with other environmental services such as asbestos, indoor air quality or bleacher inspections.

Thank you for giving us the opportunity to provide this service to you. We sincerely appreciate the trust and confidence you have in our services.



Paul Weber

From: Paul Weber
Sent: Thursday, December 21, 2017 11:46 AM
To: 'dph.leadh2O@illinois.gov'
Subject: Lead in Water Results - Rossville-Alvin CUSD 7
Attachments: J#21355 Rossville-Alvin Elem Lab Analysis.pdf; J#21355 Rossville-Alvin IDPH Data Report.xlsx; Prairie Analytical Accreditation.pdf

On behalf of Rossville-Alvin C.U.S.D. 7, lead-in-water laboratory results and laboratory accreditation are attached for the following school(s):

Rossville-Alvin Elementary School

If you have any questions or need additional information, please do not hesitate to call our office at (800)535-0964.

Paul Weber

Ideal Environmental Engineering, Inc.
2904 Tractor Lane
Bloomington, IL 61704
Ph: 309-828-4259 or 800-535-0964
Fax: 309-828-5735
Email: pweber@idealenvironmental.com

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Monday, December 11, 2017

Central Office Staff
Ideal Environmental Engineering, Inc.
2904 Tractor Lane
Bloomington, IL 61704
TEL: (309) 828-4259
FAX: (309) 828-5735

RE: Rossville-Alvin Elem School

PAS WO: 17K0522

Prairie Analytical Systems, Inc. received 20 sample(s) on 11/17/2017 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of Prairie Analytical Systems, Inc.

If you have any questions, please feel free to contact me at (224) 253-1348.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Christina E. Pierce".

Christina E. Pierce
Project Manager

Certifications: NELAP/NELAC - IL #100323

| | | | | | | |
|-------------------------------|---|-----------------------------|---|----------------|---|--------------------|
| 1210 Capital Airport Drive | * | Springfield, IL 62707 | * | 1.217.753.1148 | * | 1.217.753.1152 Fax |
| 9114 Virginia Road Suite #112 | * | Lake in the Hills, IL 60156 | * | 1.847.651.2604 | * | 1.847.458.0538 Fax |

Prairie Analytical Systems, Inc.

Date: 12/11/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
 Project: Rossville-Alvin Elem School
 Client Sample ID: 01a
 Collection Date: 11/8/17 5:45

Lab Order: 17K0522
 Lab ID: 17K0522-01
 Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:05 | 12/4/17 14:26 | EPA200.8 R5 | LAH |

Client Sample ID: 01b
 Collection Date: 11/8/17 5:45

Lab ID: 17K0522-02
 Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:05 | 12/4/17 14:29 | EPA200.8 R5 | LAH |

Client Sample ID: 02a
 Collection Date: 11/8/17 5:47

Lab ID: 17K0522-03
 Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | 3.08 | 2.00 | | µg/L | 1 | 12/4/17 9:05 | 12/4/17 14:31 | EPA200.8 R5 | LAH |

Client Sample ID: 02b
 Collection Date: 11/8/17 5:47

Lab ID: 17K0522-04
 Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:05 | 12/4/17 14:33 | EPA200.8 R5 | LAH |

Client Sample ID: 03a
 Collection Date: 11/8/17 5:49

Lab ID: 17K0522-05
 Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:05 | 12/4/17 14:35 | EPA200.8 R5 | LAH |

Client Sample ID: 03b
 Collection Date: 11/8/17 5:49

Lab ID: 17K0522-06
 Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:05 | 12/4/17 14:37 | EPA200.8 R5 | LAH |

Prairie Analytical Systems, Inc.

Date: 12/11/2017

LABORATORY RESULTS

| | | | | | | | | | |
|--------------------------|---------------------------------------|--------------|-------------------|----------------|-----------|----------------------|----------------------|---------------|----------------|
| Client: | Ideal Environmental Engineering, Inc. | | Lab Order: | 17K0522 | | | | | |
| Project: | Rossville-Alvin Elem School | | Lab ID: | 17K0522-07 | | | | | |
| Client Sample ID: | 04a | | Matrix: | Drinking Water | | | | | |
| Collection Date: | 11/8/17 5:52 | | | | | | | | |
| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
| Metals by ICP-MS | | | | | | | | | |
| *Lead | 2.84 | 2.00 | | µg/L | 1 | 12/4/17 9:05 | 12/4/17 14:40 | EPA200.8 R5 | LAH |
| Client Sample ID: | 04b | | Lab ID: | 17K0522-08 | | | | | |
| Collection Date: | 11/8/17 5:52 | | Matrix: | Drinking Water | | | | | |
| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:05 | 12/4/17 14:42 | EPA200.8 R5 | LAH |
| Client Sample ID: | 05a | | Lab ID: | 17K0522-09 | | | | | |
| Collection Date: | 11/8/17 5:56 | | Matrix: | Drinking Water | | | | | |
| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
| Metals by ICP-MS | | | | | | | | | |
| *Lead | 2.78 | 2.00 | | µg/L | 1 | 12/4/17 9:07 | 12/4/17 14:55 | EPA200.8 R5 | LAH |
| Client Sample ID: | 05b | | Lab ID: | 17K0522-10 | | | | | |
| Collection Date: | 11/8/17 5:56 | | Matrix: | Drinking Water | | | | | |
| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:07 | 12/4/17 15:02 | EPA200.8 R5 | LAH |
| Client Sample ID: | 06a | | Lab ID: | 17K0522-11 | | | | | |
| Collection Date: | 11/8/17 5:59 | | Matrix: | Drinking Water | | | | | |
| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:07 | 12/4/17 15:04 | EPA200.8 R5 | LAH |
| Client Sample ID: | 06b | | Lab ID: | 17K0522-12 | | | | | |
| Collection Date: | 11/8/17 5:59 | | Matrix: | Drinking Water | | | | | |
| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:07 | 12/4/17 15:06 | EPA200.8 R5 | LAH |

Prairie Analytical Systems, Inc.

Date: 12/11/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.
 Project: Rossville-Alvin Elem School
 Client Sample ID: 07a
 Collection Date: 11/8/17 6:06

Lab Order: 17K0522
 Lab ID: 17K0522-13
 Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:07 | 12/4/17 15:08 | EPA200.8 R5 | LAH |

Client Sample ID: 07b
 Collection Date: 11/8/17 6:06

Lab ID: 17K0522-14
 Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:07 | 12/4/17 15:10 | EPA200.8 R5 | LAH |

Client Sample ID: 08a
 Collection Date: 11/8/17 6:09

Lab ID: 17K0522-15
 Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:07 | 12/4/17 15:21 | EPA200.8 R5 | LAH |

Client Sample ID: 08b
 Collection Date: 11/8/17 6:09

Lab ID: 17K0522-16
 Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:07 | 12/4/17 15:24 | EPA200.8 R5 | LAH |

Client Sample ID: 09a
 Collection Date: 11/8/17 6:13

Lab ID: 17K0522-17
 Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:07 | 12/4/17 15:26 | EPA200.8 R5 | LAH |

Client Sample ID: 09b
 Collection Date: 11/8/17 6:13

Lab ID: 17K0522-18
 Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:07 | 12/4/17 15:28 | EPA200.8 R5 | LAH |

Prairie Analytical Systems, Inc.

Date: 12/11/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.

Project: Rossville-Alvin Elem School

Lab Order: 17K0522

Client Sample ID: 10a

Lab ID: 17K0522-19

Collection Date: 11/8/17 6:16

Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|-------------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:07 | 12/4/17 15:30 | EPA200.8 R5 | LAH |

Client Sample ID: 10b

Lab ID: 17K0522-20

Collection Date: 11/8/17 6:16

Matrix: Drinking Water

| Analyses | Result | Limit | Qual | Units | DF | Date Prepared | Date Analyzed | Method | Analyst |
|-------------------------|--------|-------|------|-------|----|---------------|---------------|-------------|---------|
| Metals by ICP-MS | | | | | | | | | |
| *Lead | U | 2.00 | | µg/L | 1 | 12/4/17 9:07 | 12/4/17 15:37 | EPA200.8 R5 | LAH |

Prairie Analytical Systems, Inc.

Date: 12/11/2017

LABORATORY RESULTS

Client: Ideal Environmental Engineering, Inc.

Project: Rossville-Alvin Elem School

Lab Order: 17K0522

Notes and Definitions

- * NELAC certified compound.
- U Analyte not detected (i.e. less than RL or MDL).

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-9490 - Phone (217) 753-1148 - Facsimile (217) 753-1152
 Chicago IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60158 - Phone (847) 651-2604 - Facsimile (847) 458-9680
 Central / Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152



Client/Address: Ideal Environmental Engineering, Inc. / 2904 Tractor Lane
 City, State, Zip Code: Bloomington, IL 61704
 Phone / Facsimile: 309-828-4259 / 309-828-5735
 P.O. (if) / LEA: J#21355 / Rossville-Alvin C.U.S.D. 7
 Building Description: Rossville-Alvin Elem. School
 Address: 350 N. Chicago Street, Rossville, IL 60963
 SBE ID: 54-092-0070-26-2001
 Contact/E-Mail/Address: Central Office Staff / leadinwater@idealenvironmental.com

| Sample ID | Sample Location Description | Sample | | Fixture Type DF=Drinking Fountain, S=Sink, WF=Water Cooler, KS=Kitchen Sink, BF=Boiler Filler, O=Other | When Side by Side Fountains, etc. exist, indicate: Left (L), Right (R), Upper (UP) Lower (LO) as applicable. | Source Type: (Single Source/Single Drain=SS, Double Source/Single Drain=DS, Double Source/Double Drain=DD) | 250 ml Collected? | First Draw Sample = 1 | Second Draw (30-Second Flush) = 2 | Miscellaneous | |
|-----------|-----------------------------|----------|-------|---|--|---|-------------------|-----------------------|-----------------------------------|---------------------------------|-------------------------|
| | | Date | Time | | | | | | | # of sources / # of samples: | Date Water Last Used |
| C1c | Kitchen Prep NE | 11/17/17 | 5:45a | KS | NE | SS | Y | 1 | 1 | 10/20 | 11/17/17 |
| C1b | Kitchen Prep NE | | | | NE | | | 2 | | | |
| C2a | Kitchen Prep SE | | 5:47a | | SE | | | 1 | | | |
| C2b | Kitchen Prep SE | | | | SE | | | 2 | | | |
| C3a | Kitchen Prep Sprayer | | 5:49a | | E | | | 1 | | | |
| C3b | Kitchen Prep Sprayer | | | | E | | | 2 | | | |
| C4a | Kitchen Prep NW | | 5:52a | | NW | | | 1 | | | |
| C4b | Kitchen Prep NW | | | | NW | | | 2 | | | |
| C5a | Kitchen Prep SW | | 5:56a | | SW | | | 1 | | | |
| C5b | Kitchen Prep SW | | | | SW | | | 2 | | | |
| C6c | Dr K Sink | | | | | | | 1 | | | |
| C6b | Dr K Sink | | | | | | | 2 | | | |

2400/L

Matrix: Drinking Water
 Preservative: None
 Requisition By: [Signature] Date: 11/13/17 Time: 1:00PM
 Collected By: [Signature] Date: 11/17/17 Time: 11:40
 IDEAL Lead in Water Dept., cc - p
 IDEAL Lead in Water Dept., cc - p
 Received By: [Signature] Date: 11/17/17
 IDEAL Lead in Water Dept., cc - p
 Method of Shipment: [Signature] Date: 11-17-17
 Standard [] Rush []
 Turnaround Time: [Signature] Temperature (°C): 16.0

Chain of Custody Record



Prairie Analytical Systems, Inc. UNAPPROVED
www.prairieanalytical.com

Central, IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152
Chicago, IL Office - 8114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 651-2604 - Facsimile (847) 458-9880
Central / Southern IL Contact - Phone (217) 414-7782 - Facsimile (217) 753-1152

| Client / Address | | Ideal Environmental Engineering, Inc. / 2904 Tractor Lane | |
|------------------------|-----------------------------|---|-------------|
| City, State, Zip Code | | Bloomington, IL 61704 | |
| Phone / Facsimile | | 309-828-4259 / 309-828-5735 | |
| P.O. (if) / LEA | | J#21355 / Rossville-Alvin C.U.S.D. 7 | |
| Building Description | | Rossville-Alvin Elem. School | |
| Address | | 350 N. Chicago Street, Rossville, IL 60963 | |
| SBE ID | | 54-092-0070-26-2001 | |
| Contact/E-Mail Address | | Central Office Staff / leadinwater@idealenvironmental.com | |
| Sample ID | Sample Location Description | Sample Date | Sample Time |
| 076 | Outside Office | 11/3/17 | 6:00g |
| 07b | I | | |
| 08a | Outside Mens RR | | 6:07g |
| 08b | I | | |
| 09a | Outside Gym | | 6:13g |
| 09b | I | | |
| 10a | Bad Floor | | 6:16g |
| 10b | I | | |

| Matrix: Drinking Water | | Preservative: None | |
|----------------------------|-------------|--------------------|----------------------------|
| Collected By | Received By | Date | Date |
| Shelley Colton | | 11/3/17 | 1:00pm |
| IDEAL Lead in Water Dept., | | | IDEAL Lead in Water Dept., |

| Analysis/Method Requested: Lead | | Mention of Shipment | |
|---------------------------------|----------|-------------------------------------|--------------------------|
| Turnaround Time | Standard | Rush | No |
| 11-17-17 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Temperature (°C) | | | 16.0 |



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
NELAP - RECOGNIZED
ENVIRONMENTAL LABORATORY ACCREDITATION



is hereby granted to

PRAIRIE ANALYTICAL SYSTEMS, INCORPORATED
1210 CAPITAL AIRPORT DRIVE
SPRINGFIELD, IL 62707-8413
NELAP ACCREDITED
 ACCREDITATION NUMBER #100323



According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

Celeste M. Crowley

Celeste M. Crowley
 Acting Manager
 Environmental Laboratory Accreditation Program

John D. South

John South
 Accreditation Officer
 Environmental Laboratory Accreditation Program

Certificate No.: 004184
 Expiration Date: 01/31/2018
 Issued On: 06/20/2017

**State of Illinois
Environmental Protection Agency
Awards the Certificate of Approval to:**

Certificate No.: 004184

Prairie Analytical Systems, Incorporated
1210 Capital Airport Drive
Springfield, IL 62707-8413

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FOT Name: Drinking Water, Inorganic

Method: SM2130B,18Ed

Matrix Type: Potable Water

Turbidity

Method: SM2320B,18Ed

Matrix Type: Potable Water

Alkalinity

Method: SM2340B,18Ed

Matrix Type: Potable Water

Hardness

Method: SM4110B,18Ed

Matrix Type: Potable Water

Chloride

Fluoride

Nitrate

Nitrite

Orthophosphate as P

Sulfate

Method: SM4500CN-E,18Ed

Matrix Type: Potable Water

Cyanide

Method: SM4500H-B,18Ed

Matrix Type: Potable Water

Hydrogen ion (pH)

Method: SM5310C,20Ed

Matrix Type: Potable Water

Total Organic Carbon (TOC)

Method: USEPA150.1

Matrix Type: Potable Water

Hydrogen ion (pH)

Method: USEPA180.1

Matrix Type: Potable Water

Turbidity

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FOT Name: Drinking Water, Inorganic

Method: USEPA200.7R4.4

Matrix Type: Potable Water

Aluminum
Barium
Cadmium
Chromium
Hardness (calc.)
Magnesium
Nickel
Sodium

Arsenic
Beryllium
Calcium
Copper
Iron
Manganese
Silver
Zinc

Method: USEPA200.8R5.4

Matrix Type: Potable Water

Aluminum
Arsenic
Beryllium
Chromium
Lead
Mercury
Nickel
Silver
Zinc

Antimony
Barium
Cadmium
Copper
Manganese
Molybdenum
Selenium
Thallium

Method: USEPA245.2

Matrix Type: Potable Water

Mercury

Method: USEPA300.0R2.1

Matrix Type: Potable Water

Chloride
Nitrate
Orthophosphate as P

Fluoride
Nitrite
Sulfate

FOT Name: Drinking Water, Organic

Method: USEPA524.2R4.1

Matrix Type: Potable Water

1,1,1-Trichloroethane
1,1-Dichloroethene
1,2-Dichlorobenzene

1,1,2-Trichloroethane
1,2,4-Trichlorobenzene
1,2-Dichloroethane

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FOT Name: Drinking Water, Organic

Method: USEPA524.2R4.1

Matrix Type: Potable Water

1,4-Dichlorobenzene
Bromodichloromethane
Carbon tetrachloride
Chlorodibromomethane
cis-1,2-Dichloroethene
Ethylbenzene
Naphthalene
Tetrachloroethene
Total trihalomethanes
Trichloroethylene
Xylenes (total)

1,2-Dichloropropane
Benzene
Bromoform
Chlorobenzene
Chloroform
Dichloromethane (Methylene chloride)
Methyl tert-butyl ether (MTBE)
Styrene
Toluene
trans-1,2-Dichloroethene
Vinyl chloride

FOT Name: Non Potable Water, Inorganic

Method: SM2130B,2001

Matrix Type: NPW/SCM

Turbidity

Method: SM2310B,1997

Matrix Type: NPW/SCM

Acidity

Method: SM2320B,1997

Matrix Type: NPW

Alkalinity

Method: SM2340B,1997

Matrix Type: NPW

Hardness

Method: SM2540B,1997

Matrix Type: NPW

Residue (Total)

Method: SM2540C,1997

Matrix Type: NPW

Residue (TDS)

Method: SM2540D,1997

Matrix Type: NPW

Residue (TSS)

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FOT Name: Non Potable Water, Inorganic

Method: SM3500Cr-B,2009

Matrix Type: NPW/SCM

Chromium VI

Method: SM4110B,2000

Matrix Type: NPW/SCM

Bromide

Chloride

Fluoride

Nitrate

Nitrate-Nitrite (as N)

Nitrite

Orthophosphate (as P)

Sulfate

Method: SM4500Cl-G,2000

Matrix Type: NPW

Chlorine, Total Residual

Method: SM4500CN-E,1999

Matrix Type: NPW

Cyanide

Method: SM4500H-B,2000

Matrix Type: NPW

Hydrogen Ion (pH)

Method: SM4500NH3-D,1997

Matrix Type: NPW/SCM

Ammonia

Total Kjeldahl Nitrogen

Method: SM4500NH3-G,1997

Matrix Type: NPW

Ammonia

Method: SM4500O-G,2001

Matrix Type: NPW

Oxygen - Dissolved

Method: SM4500P-E,1999

Matrix Type: NPW

Orthophosphate (as P)

Phosphorus

Method: SM4500P-F,1999

Matrix Type: NPW

Orthophosphate (as P)

Method: SM4500S2-F,2000

Matrix Type: NPW/SCM

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FOT Name: Non Potable Water, Inorganic **Method: SM4500S2-F,2000**

Matrix Type: NPW/SCM Sulfide

Method: SM5210B,2001

Matrix Type: NPW
Biochemical Oxygen Demand (BOD)

Matrix Type: NPW/SCM
Carbonaceous Biochemical Oxygen Demand (CBO)

Method: SM5220D,1997

Matrix Type: NPW
Chemical Oxygen Demand (COD)

Method: SM5310C,2000

Matrix Type: NPW
Total Organic Carbon (TOC)

Method: USEPA160.4,1971

Matrix Type: NPW
Residue (Volatile)

Method: USEPA1664A

Matrix Type: NPW
Oil and Grease

Method: USEPA180.1R2.0,1993

Matrix Type: NPW
Turbidity

Method: USEPA200.7,1994

| | |
|-----------------------------|-----------|
| Matrix Type: NPW/SCM | |
| Aluminum | Antimony |
| Arsenic | Barium |
| Beryllium | Cadmium |
| Calcium | Chromium |
| Cobalt | Copper |
| Iron | Lead |
| Magnesium | Manganese |
| Molybdenum | Nickel |
| Potassium | Selenium |
| Silver | Sodium |
| Thallium | Tin |

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FOT Name: Non Potable Water, Inorganic

Method: USEPA200.7,1994

Matrix Type: NPW/SCM

Vanadium

Titanium

Zinc

Method: USEPA200.8,1994

Matrix Type: NPW/SCM

Aluminum

Arsenic

Beryllium

Cadmium

Chromium

Copper

Lead

Manganese

Nickel

Selenium

Sodium

Tin

Vanadium

Antimony

Barium

Boron

Calcium

Cobalt

Iron

Magnesium

Molybdenum

Potassium

Silver

Thallium

Titanium

Zinc

Method: USEPA245.2,1974

Matrix Type: NPW/SCM

Mercury

Method: USEPA300.0R2.1,1993

Matrix Type: NPW

Bromide

Fluoride

Nitrate-Nitrite (as N)

Orthophosphate (as P)

Chloride

Nitrate

Nitrite

Sulfate

Method: USEPA310.2,1974

Matrix Type: NPW

Alkalinity

Method: USEPA335.4R1.0,1993

Matrix Type: NPW/SCM

Cyanide

Method: USEPA350.1R2.0,1993

Matrix Type: NPW

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FOT Name: Non Potable Water, Inorganic

Method: USEPA350.1R2.0,1993

Matrix Type: NPW

Ammonia

Method: USEPA365.1R2.0,1993

Matrix Type: NPW

Orthophosphate (as P)

Method: USEPA410.4R2.0,1993

Matrix Type: NPW

Chemical Oxygen Demand (COD)

Method: USEPA420.1,1978

Matrix Type: NPW

Phenolics

Method: USEPA420.4R1.0,1993

Matrix Type: NPW

Phenolics

FOT Name: Solid and Chemical Materials, Inorganic

Method: 1010A

Matrix Type: NPW/SCM

Ignitability

Method: 1311

Matrix Type: SCM

TCLP (Organic and Inorganic)

Method: 1312

Matrix Type: SCM

Synthetic Precipitation Leaching Procedure

Method: 6010B

Matrix Type: NPW/SCM

Antimony

Arsenic

Barium

Beryllium

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Selenium

Silver

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FOT Name: Solid and Chemical Materials, Inorganic

Method: 6010B

Matrix Type: NPW/SCM

Strontium
Tin
Vanadium

Sodium
Thallium
Titanium
Zinc

Method: 6020A

Matrix Type: NPW/SCM

Aluminum
Arsenic
Beryllium
Cadmium
Chromium
Copper
Lead
Manganese
Molybdenum
Potassium
Silver
Thallium
Zinc

Antimony
Barium
Boron
Calcium
Cobalt
Iron
Magnesium
Mercury
Nickel
Selenium
Sodium
Vanadium

Method: 7196A

Matrix Type: NPW/SCM

Chromium VI

Method: 7470A

Matrix Type: NPW

Mercury

Method: 7471B

Matrix Type: SCM

Mercury

Method: 9014

Matrix Type: NPW/SCM

Cyanide

Method: 9034

Matrix Type: NPW/SCM

Sulfides

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FOT Name: Solid and Chemical Materials, Inorganic

Method: 9040B

Matrix Type: NPW

Hydrogen Ion (pH)

Method: 9040C

Matrix Type: NPW

Hydrogen Ion (pH)

Method: 9045C

Matrix Type: SCM

Hydrogen Ion (pH)

Method: 9045D

Matrix Type: SCM

Hydrogen Ion (pH)

Method: 9056A

Matrix Type: NPW/SCM

Bromide

Chloride

Fluoride

Nitrate

Nitrite

Phosphate

Sulfate

Method: 9065

Matrix Type: NPW/SCM

Phenolics

Method: 9081

Matrix Type: NPW/SCM

Cation-exchange Capacity

Method: 9095A

Matrix Type: NPW/SCM

Paint Filter

FOT Name: Solid and Chemical Materials, Organic

Method: 8015B

Matrix Type: NPW/SCM

Gasoline range organics (GRO)

Method: 8081A

Matrix Type: NPW/SCM

4,4'-DDD

4,4'-DDE

4,4'-DDT

Aldrin

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FOT Name: Solid and Chemical Materials, Organic**Method: 8081A****Matrix Type: NPW/SCM**

alpha-Chlordane
 Chlordane - not otherwise specified
 Dieldrin
 Endosulfan II
 Endrin
 Endrin ketone
 gamma-Chlordane
 Heptachlor epoxide
 Toxaphene

alpha-BHC
 beta-BHC
 delta-BHC
 Endosulfan I
 Endosulfan sulfate
 Endrin aldehyde
 gamma-BHC (Lindane)
 Heptachlor
 Methoxychlor

Method: 8082**Matrix Type: NPW/SCM**

PCB-1016
 PCB-1232
 PCB-1248
 PCB-1260

PCB-1221
 PCB-1242
 PCB-1254

Method: 8260B**Matrix Type: NPW/SCM**

1,1,1,2-Tetrachloroethane
 1,1,2,2-Tetrachloroethane
 1,1-Dichloroethane
 1,1-Dichloropropene
 1,2,3-Trichloropropane
 1,2,4-Trimethylbenzene
 1,2-Dibromoethane (EDB)
 1,2-Dichloroethane
 1,3,5-Trimethylbenzene
 1,3-Dichloropropane
 2,2-Dichloropropane
 2-Chloroethyl vinyl ether
 2-Hexanone
 4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)
 Acetonitrile
 Acrylonitrile

1,1,1-Trichloroethane
 1,1,2-Trichloroethane
 1,1-Dichloroethene
 1,2,3-Trichlorobenzene
 1,2,4-Trichlorobenzene
 1,2-Dibromo-3-chloropropane (DBCP)
 1,2-Dichlorobenzene
 1,2-Dichloropropane
 1,3-Dichlorobenzene
 1,4-Dichlorobenzene
 2-Butanone (Methyl ethyl ketone, MEK)
 2-Chlorotoluene
 4-Chlorotoluene
 Acetone
 Acrolein (Propenal)
 Benzene

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FOT Name: Solid and Chemical Materials, Organic**Method: 8260B****Matrix Type: NPW/SCM**

Bromochloromethane
 Bromoform
 Carbon disulfide
 Chlorobenzene
 Chloroethane
 Chloromethane
 cis-1,3-Dichloropropene
 Dichloromethane (Methylene chloride)
 Isopropylbenzene
 Naphthalene
 n-Propylbenzene
 sec-Butylbenzene
 tert-Butylbenzene
 Toluene
 trans-1,3-Dichloropropene
 Trichlorofluoromethane
 Vinyl chloride

Bromobenzene
 Bromodichloromethane
 Bromomethane
 Carbon tetrachloride
 Chlorodibromomethane (Dibromochloromethane)
 Chloroform
 cis-1,2-Dichloroethene
 Dichlorodifluoromethane
 Ethylbenzene
 Methyl-t-butyl ether
 n-Butylbenzene
 p-Isopropyltoluene
 Styrene
 Tetrachloroethene
 trans-1,2-Dichloroethene
 Trichloroethene
 Vinyl acetate
 Xylenes (Total)

Method: 8270C**Matrix Type: NPW/SCM**

1,2,4-Trichlorobenzene
 1,3-Dichlorobenzene
 2,2-Oxybis (1-chloropropane)
 2,4,6-Trichlorophenol
 2,4-Dimethylphenol
 2,4-Dinitrotoluene (2,4-DNT)
 2-Chloronaphthalene
 2-Methylnaphthalene
 2-Nitroaniline
 3,3'-Dichlorobenzidine
 4,6-Dinitro-2-methylphenol
 4-Chloro-3-methylphenol
 4-Chlorophenyl phenyl ether
 4-Nitroaniline
 Acenaphthene

1,2-Dichlorobenzene
 1,4-Dichlorobenzene
 2,4,5-Trichlorophenol
 2,4-Dichlorophenol
 2,4-Dinitrophenol
 2,6-Dinitrotoluene (2,6-DNT)
 2-Chlorophenol
 2-Methylphenol (o-Cresol)
 2-Nitrophenol
 3-Nitroaniline
 4-Bromophenyl phenyl ether
 4-Chloroaniline
 4-Methylphenol (p-Cresol)
 4-Nitrophenol
 Acenaphthylene

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FOT Name: Solid and Chemical Materials, Organic**Method: 8270C****Matrix Type: NPW/SCM**

Benzo(a)anthracene
 Benzo(b)fluoranthene
 Benzo(k)fluoranthene
 Bis(2-chloroethyl) ether
 Butyl benzyl phthalate
 Carbofuran (Furaden)
 Chrysene
 Dibenzofuran
 Dimethyl phthalate
 Di-n-octyl phthalate
 Fluorene
 Hexachlorobutadiene
 Hexachloroethane
 Isophorone
 Nitrobenzene
 N-Nitrosodi-n-propylamine
 o-Cresol (2-Methylphenol)
 Pentachlorophenol
 Phenol

Anthracene
 Benzo(a)pyrene
 Benzo(g,h,i)perylene
 Bis(2-chloroethoxy) methane
 Bis(2-ethylhexyl) phthalate
 Carbazole
 Chlorobenzilate
 Dibenz(a,h)anthracene
 Diethyl phthalate
 Di-n-butyl phthalate
 Fluoranthene
 Hexachlorobenzene
 Hexachlorocyclopentadiene
 Indeno(1,2,3-cd) pyrene
 Naphthalene
 N-Nitrosodimethylamine
 N-Nitrosodiphenylamine
 p-Cresol (4-Methylphenol)
 Phenanthrene
 Pyrene

Method: 8270C Mod_Farm Chemicals**Matrix Type: NPW/SCM**

Acetochlor
 Atrazine
 Chlorpyrifos
 EPTC
 Metribuzin
 Prometon
 Terbufos

Alachlor
 Butylate
 Cyanazine
 Metolachlor
 Pendimethalin
 Simazine
 Trifluralin

Method: 8321B**Matrix Type: NPW/SCM**

2,4,5-T
 2,4-D
 Aldicarb (Temik)

2,4,5-TP (Silvex)
 2,4-DB
 Carbofuran (Furaden)

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FOT Name: Solid and Chemical Materials, Organic

Method: 8321B

Matrix Type: NPW/SCM

Dicamba

MCPA

Oxamyl

Dalapon

Dinoseb

MCPP



