

2016 WATER QUALITY REPORT

COMMUNITY WATER SUPPLY TESTING

COMMUNITY CONSOLIDATED SCHOOL DISTRICT 181
THE LANE SCHOOL
500 N. ELM STREET
HINSDALE, ILLINOIS
IES NO. 915-16



INTEGRITY

ENVIRONMENTAL SERVICES, INC.

1240 IROQUOIS DRIVE
SUITE 102
NAPERVILLE, IL 60563

630-718-9133
FAX 630-718-9114

April 28, 2016

C-11806

Mr. Mike Duggan
Facilities Coordinator
Community Consolidated School District 181
115 West 55th Street
Clarendon Hills, Illinois 60514

Dear Mr. Duggan:

Final Report
Community Water Supply Testing
Community Consolidated School District 181
The Lane School
500 N. Elm Street
Hinsdale, Illinois
IES No. 915-16

Integrity Environmental Services, Inc. has completed this final Community Water Supply Testing Report for the above referenced School District facility. One (1) original and one (1) copy of the Report have been provided.

This Report has been prepared based on laboratory analysis data from water samples collected during our April 2, 2016 sampling event.

Opinions made or formed, other than those expressed herein are those of the reader and in no way shall obligate Integrity Environmental Services, Inc. The findings presented in this Report are representative of the date and times that the samples were collected. The findings presented herein should not be used or relied upon to evaluate the water quality sample data obtained at significantly later dates.

If you have any questions, please feel free to contact our office at (630) 718-9133.

INTEGRITY ENVIRONMENTAL SERVICES, INC.

Mark J. Ravanese
President

MJR/ks

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1. PROJECT NARRATIVE
2. 2016 SAMPLE RESULTS, CHAIN-OF-CUSTODY AND LABORATORY FORMS
3. SAMPLE LOCATION DIAGRAM

PROJECT NARRATIVE

2016 WATER QUALITY REPORT

COMMUNITY WATER SUPPLY TESTING

COMMUNITY CONSOLIDATED SCHOOL DISTRICT 181

THE LANE SCHOOL

500 N. ELM STREET

HINSDALE, ILLINOIS

IES NO. 915-16

INTRODUCTION:

This 2016 Water Quality Report has been prepared on behalf of Community Consolidated School District 181 (the Owner) to summarize the Community Water Supply Testing conducted at The Lane School located in Hinsdale, Illinois. The water system that supplies subject school is part of a Community Water System (CWS) as defined by the Environmental Protection Agency (EPA) and the Illinois Department of Public Health (IDPH). A Community Water System is further defined as a public water system that supplies water to the same population (25 or more people) year around and/or has 15 service connections.

SAMPLING SUMMARY:

The United States Environmental Protection Agency (USEPA) has adopted regulations which require all Community Water Supply Systems be analyzed for a wide range of chemicals and potential contaminants. This testing work is required to ensure clean drinking water to all inhabitants. The required testing is regularly performed by the EPA and/or system operators, usually at the source and/or point of treatment.

When the need arises, sampling may also be performed by the end user to ensure that the water being supplied has not been contaminated in route. The sampled water may then be tested for one or more of the many possible contaminants.

During this sampling event, the parameters of this potable water testing at The Lane School consisted of one (1) sample for Arsenic analysis and five (5) samples for Lead and Copper analysis. While the samples collected during this sampling event were not requested by any Federal, State, or local regulatory agency, when collected, the Arsenic sample is required to be collected from a location that is considered a consistent potable or drinking water source such as a cafeteria sink. The Lead and Copper samples are also required to be collected from locations that are considered a consistent potable or drinking water source, such as a classroom sink and water fountains.

The water sample location sources are noted on the sample location drawing and on the sample chain-of-custody form included with this Report in Section 2.

SAMPLING METHODOLOGY:

Integrity Environmental Services, Inc. (IES) was contracted by the Owner to conduct the potable water sampling at The Lane School. The water sampling was conducted on April 2, 2016. These samples were collected from various sites throughout the school, including a drinking fountain located across the hall from Classroom 25, the sink in the staff restroom adjacent to Classroom 28, the drinking fountain across the hall from rooms 4 and 5, the sink located within the staff lounge, and a sink located in the boys' restroom, adjacent to Classroom 23. As required by the sampling methodology for Lead and Copper, all sampling locations were allowed to settle for more than six (6) hours prior to sampling. After settling, samples were then collected by drawing water from the source directly into the pre-labeled/pre-preserved sampling containers.

Following the collection of the Lead and Copper samples, the Arsenic sample was (as required) collected by drawing water from the source directly into a pre-labeled/pre-preserved sampling container. The sample was collected from the drinking fountain located across the hall from Classroom 25. After sample collection, sampling containers for both Arsenic and Lead and Copper were placed directly into an iced cooler for transportation to an accredited analytical laboratory.

ANALYTICAL RESULTS:

The Community Water Supply testing at Community Consolidated School District 181, The Lane School facility revealed no elevated levels of Arsenic or Lead and Copper in the water samples. All sample results were below the acceptable levels set forth by the EPA and IDPH.

CONCLUSIONS:

There were no elevated levels of the subject testing constituents discovered during the Community Water Supply sampling activities.



Analytical Report

Mark Ravanese
Integrity Env. Services, Inc.
1240 Iroquois Drive
Naperville, IL 60563-8538

April 22, 2016

Work Order: 16D0310

RE: Drinking Water
The Lane Elementary School

Dear Mark Ravanese:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

This is a revised report please see case narrative

Sincerely,

Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 4/22/2016 4:37:17PM

Approved by,

Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Illinois, NELAP Accredited Lab No. 100256, Cert No. 003674



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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LANE-01	16D0310-01	Drinking Water	04/02/16 00:00	04/05/16 13:30
LANE-02	16D0310-02	Drinking Water	04/02/16 00:00	04/05/16 13:30
LANE-03	16D0310-03	Drinking Water	04/02/16 00:00	04/05/16 13:30
LANE-04	16D0310-04	Drinking Water	04/02/16 00:00	04/05/16 13:30
LANE-05	16D0310-05	Drinking Water	04/02/16 00:00	04/05/16 13:30



Case Narrative

Client: Integrity Env. Services, Inc.
Project: Drinking Water
The Lane Elementary School
Work Order: 16D0310

Date: 04/22/2016

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 16D0310

The samples were received on 04/05/16 13:30. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was

<u>Cooler</u>	<u>Temp C°</u>
Default Cooler	4.2

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Revised Report:

The samples for Arsenic were re-run due to a blank contamination



Client Sample Results

Client: Integrity Env. Services, Inc.
Project: Drinking Water
The Lane Elementary School
Work Order: 16D0310

Client Sample ID: LANE-01
Report Date: 04/22/2016
Collection Date: 04/02/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0310-01

Analyses	Result	EMT Reporting			Reg Limit	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit	Qual	Units						
Metals by ICP-MS										
Method: E200.8										
Arsenic	< 0.0100	0.0100		mg/L	0.01	0.0000800	04/21/16 11:25	B6D0705	AG	2
Copper	0.352	0.0312		mg/L	1.3	0.00375	04/06/16 19:09	B6D0160	AG	5
Lead	< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 19:09	B6D0160	AG	5



Client Sample Results

(Continued)

Client: Integrity Env. Services, Inc.
Project: Drinking Water
The Lane Elementary School
Work Order: 16D0310

Client Sample ID: LANE-02
Report Date: 04/22/2016
Collection Date: 04/02/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0310-02

Analyses	Result	EMT Reporting		Qual	Units	Reg		Date/Time Analyzed	Batch	Analyst	DF
		Limit				Limit	MDL				
Metals by ICP-MS											
	Method: E200.8										
Copper	0.338	0.0312		mg/L	1.3	0.00375		04/06/16 19:11	B6D0160	AG	5
Lead	< 0.0150	0.0150		mg/L	0.015	0.000750		04/06/16 19:11	B6D0160	AG	5



Client Sample Results

(Continued)

Client: Integrity Env. Services, Inc.
Project: Drinking Water
The Lane Elementary School
Work Order: 16D0310

Client Sample ID: LANE-03
Report Date: 04/22/2016
Collection Date: 04/02/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0310-03

Analyses	Result	EMT Reporting		Qual	Units	Reg		Date/Time Analyzed	Batch	Analyst	DF
		Limit				Limit	MDL				
Metals by ICP-MS											
Method: E200.8											
Copper	0.155	0.0312			mg/L	1.3	0.00375	04/06/16 19:13	B6D0160	AG	5
Lead	< 0.0150	0.0150			mg/L	0.015	0.000750	04/06/16 19:13	B6D0160	AG	5



Client Sample Results

(Continued)

Client: Integrity Env. Services, Inc.
Project: Drinking Water
The Lane Elementary School
Work Order: 16D0310

Client Sample ID: LANE-04
Report Date: 04/22/2016
Collection Date: 04/02/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0310-04

Analyses	Result	EMT Reporting		Qual	Units	Reg Limit	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Limit									
Metals by ICP-MS											
Method: E200.8											
Copper	0.193	0.0312			mg/L	1.3	0.00375	04/06/16 19:15	B6D0160	AG	5
Lead	< 0.0150	0.0150			mg/L	0.015	0.000750	04/06/16 19:15	B6D0160	AG	5



Client Sample Results

(Continued)

Client: Integrity Env. Services, Inc.
Project: Drinking Water
The Lane Elementary School
Work Order: 16D0310

Client Sample ID: LANE-05
Report Date: 04/22/2016
Collection Date: 04/02/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0310-05

Analyses	Result	EMT Reporting		Qual	Units	Reg		Date/Time Analyzed	Batch	Analyst	DF
		Limit				Limit	MDL				
Metals by ICP-MS											
Method: E200.8											
Copper	0.384	0.0312			mg/L	1.3	0.00375	04/06/16 19:17	B6D0160	AG	5
Lead	< 0.0150	0.0150			mg/L	0.015	0.000750	04/06/16 19:17	B6D0160	AG	5



Dates Report

Client: Integrity Env. Services, Inc.
Project: Drinking Water
The Lane Elementary School
Work Order: 16D0310

Report Date: 04/22/2016

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
16D0310-01	LANE-01	04/02/16	Drinking Water	Lead, Total ICP-MS		04/06/16 13:45	04/06/16 19:09	B6D0160	S6D0075
				Copper, Total ICP-MS		04/06/16 13:45	04/06/16 19:09		
				Arsenic, Total ICP-MS		04/21/16 09:22	04/21/16 11:25	B6D0705	S6D0292
16D0310-02	LANE-02			Lead, Total ICP-MS		04/06/16 13:45	04/06/16 19:11	B6D0160	S6D0075
				Copper, Total ICP-MS		04/06/16 13:45	04/06/16 19:11		
16D0310-03	LANE-03			Lead, Total ICP-MS		04/06/16 13:45	04/06/16 19:13		
				Copper, Total ICP-MS		04/06/16 13:45	04/06/16 19:13		
16D0310-04	LANE-04			Lead, Total ICP-MS		04/06/16 13:45	04/06/16 19:15		
				Copper, Total ICP-MS		04/06/16 13:45	04/06/16 19:15		
16D0310-05	LANE-05			Lead, Total ICP-MS		04/06/16 13:45	04/06/16 19:17		
				Copper, Total ICP-MS		04/06/16 13:45	04/06/16 19:17		



Quality Control

Client: Integrity Env. Services, Inc.
Project: Drinking Water
The Lane Elementary School
Work Order: 16D0310

Report Date: 04/22/2016
Matrix: Drinking Water

Metals by ICP-MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
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Batch: B6D0160

Blank (B6D0160-BLK1)

Prepared: 04/06/2016 13:45 Analyzed: 04/06/2016 19:04

Arsenic	< 0.0312	0.0312	mg/L								5
Copper	< 0.0312	0.0312	mg/L								5
Lead	< 0.0312	0.0312	mg/L								5

LCS (B6D0160-BS1)

Prepared: 04/06/2016 13:45 Analyzed: 04/06/2016 19:07

Arsenic	1.11	0.0312	mg/L	1.250		88.7	85-115				5
Copper	1.30	0.0312	mg/L	1.250		104	91.6-112				5
Lead	1.30	0.0312	mg/L	1.250		104	85-115				5

Matrix Spike (B6D0160-MS1)

Source: 16D0312-01

Prepared: 04/06/2016 13:45 Analyzed: 04/06/2016 19:41

Arsenic	1.13	0.0312	mg/L	1.250	0.0128	89.6	70-130				5
Copper	1.49	0.0312	mg/L	1.250	0.221	101	70-130				5
Lead	1.27	0.0312	mg/L	1.250	ND	102	70-130				5

Matrix Spike (B6D0160-MS2)

Source: 16C0947-05

Prepared: 04/06/2016 13:45 Analyzed: 04/06/2016 20:09

Arsenic	1.13	0.0312	mg/L	1.250	ND	90.4	70-130				5
Copper	4.51	0.0312	mg/L	1.250	3.24	101	70-130				5
Lead	1.35	0.0312	mg/L	1.250	ND	108	70-130				5

Matrix Spike Dup (B6D0160-MSD1)

Source: 16D0312-01

Prepared: 04/06/2016 13:45 Analyzed: 04/06/2016 19:43

Arsenic	1.16	0.0312	mg/L	1.250	0.0128	91.4	70-130	2.01	20		5
Copper	1.52	0.0312	mg/L	1.250	0.221	104	70-130	1.79	20		5
Lead	1.31	0.0312	mg/L	1.250	ND	105	70-130	2.73	20		5

Matrix Spike Dup (B6D0160-MSD2)

Source: 16C0947-05

Prepared: 04/06/2016 13:45 Analyzed: 04/06/2016 20:12

Arsenic	1.11	0.0312	mg/L	1.250	ND	88.9	70-130	1.73	20		5
Copper	4.48	0.0312	mg/L	1.250	3.24	99.4	70-130	0.578	20		5
Lead	1.31	0.0312	mg/L	1.250	ND	105	70-130	3.42	20		5

Batch: B6D0705

Blank (B6D0705-BLK1)

Prepared: 04/21/2016 09:22 Analyzed: 04/21/2016 11:06

Arsenic	< 0.0100	0.0100	mg/L								2
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LCS (B6D0705-BS1)

Prepared: 04/21/2016 09:22 Analyzed: 04/21/2016 11:08

Arsenic	0.101	0.0100	mg/L	0.1000		101	85-115				1
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Post Spike (B6D0705-PS1)

Source: 16D0304-01RE1

Prepared: 04/21/2016 09:22 Analyzed: 04/21/2016 11:12

Arsenic	0.109	0.0100	mg/L	0.1000	0.000720	109	80-120				1
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Certified Analyses included in this Report

Analyte	CAS #	Certifications
<i>E200.8 in Drinking Water</i>		
Arsenic	7440-38-2	ILEPA
Copper	7440-50-8	ILEPA
Lead	7439-92-1	ILEPA

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	07/16/2016
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2016
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2016
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	003674	07/27/2016
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2016
LELAP	State of Louisiana, NELAP Accredited Lab No. 171344	05015	06/30/2016
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2016



Qualifiers and Definitions

Item	Description
------	-------------

%Rec	Percent Recovery
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ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203



16D0310

PM: Jason Cristino
Integrity Env. Services, Inc
Drinking Water

www.emt.com

body Record

TURNAROUND TIME:

☐ RUSH

day turnaround

☒ ROUTINE

Due Date: _____ COC #: 148697

Company: INTEGRITY ENVIRONMENTAL
Address: 1240 NODDOLIS DR., STE. 102
NAPERVILLE, IL 60563

Phone #: (630) 718-9133 Fax #: (630) 718-9114

P.O. #: 915-16 Proj. #: 915-16

Client Contact: MARK ADAMSON

Project ID / Location: THE LANE ELEMENTARY SCHOOL

Sample Type:

1. Waste Water 4. Sludge 7. Groundwater (filtered)
2. Drinking Water 5. Oil 8. Other
3. Soil 6. Groundwater

Container Type:

1. Plastic V - VOC Vial O - Other
G - Glass B - Tedlar Bag

Preservative:

1. None 4. NaOH 7. Zn Ace
2. H₂SO₄ 5. HCl 8. Other
3. HNO₃ 6. MeOH

Analyses

EMT
USE
ONLY

EMT
WORKORDER
16D0310

Sample I.D.	Sample Type	Container			Sampling					Preservation					
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab				
LANE-01	2	250ml	P	1	MR	4-2-16	11:00	N/A	54.5	3	✓	✓	✓		
02	↓	↓	↓	↓	↓	↓	↓		62.4	↓	✓	✓			
03	↓	↓	↓	↓	↓	↓	↓		49.3	↓	✓	✓			
04	↓	↓	↓	↓	↓	↓	↓		71.0	↓	✓	✓			
05	↓	↓	↓	↓	↓	↓	↓		69.2	↓	✓	✓			

01A
02A
03A
04A
05A

Relinquished By:

Date: 4-5-16

Time: 1:30p

Received By:

Date: - -

Time: - -

EMT USE ONLY

Client Code:

EMT Project I.D.

Relinquished By:

Date: - -

Time: - -

Received By:

Date: - -

Time: - -

Jar Lot No.

Relinquished By:

Date: - -

Time: - -

Received For Lab By:

Date: 4-5-16

Time: 1:30

☒ SAMPLE RECEIVED
ON ICE

☐ TEMPERATURE
(Must be recorded if sampling
was greater than 6 hrs. prior to
sample receipt)

4.2

EMT SAMPLE RETURN
POLICY ON BACK

SPECIAL INSTRUCTIONS:

