2016 WATER QUALITY REPORT

COMMUNITY WATER SUPPLY TESTING

COMMUNITY CONSOLIDATED SCHOOL DISTRICT 181
OAK ELEMENTARY SCHOOL
950 SOUTH OAK 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-11804

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
Oak Elementary School
950 South Oak 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 March 31, 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. Ravanesi
President

MJR/ks

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COMMUNITY CONSOLIDATED SCHOOL DISTRICT 181
OAK ELEMENTARY SCHOOL
950 SOUTH OAK STREET
HINSDALE, ILLINOIS
IES NO. 915-16

PROJECT NARRATIVE

2016 WATER QUALITY REPORT

COMMUNITY WATER SUPPLY TESTING

COMMUNITY CONSOLIDATED SCHOOL DISTRICT 181
OAK ELEMENTARY SCHOOL
950 SOUTH OAK 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 Oak Elementary School located in Hinsdale, Illinois. The 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 year-round.

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 Oak Elementary 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 Oak Elementary School. The water sampling was conducted on March 31, 2016. These samples were collected from various sites throughout the school, including a drinking fountain in the hallway located adjacent to the school's main entrance, a drinking fountain in the hallway outside of Classroom 6, a drinking fountain in the hallway outside of Classrooms 20 and 22, a sink in the boys' restroom located adjacent to Classroom 30 (Art), and a drinking fountain in the hallway, outside of Classroom 28. 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 in the hallway located adjacent to the school's main entrance. 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, Oak Elementary 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.

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Analytical Report

April 22, 2016

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

Work Order: 16D0305

RE: Drinking Water
Oak Elementary School

Dear Mark Ravanesi:

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 4:34:03PM

Approved by,

Matthew Gregory
Technical Manager

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
OAK-01	16D0305-01	Drinking Water	03/31/16 00:00	04/05/16 13:30
OAK-02	16D0305-02	Drinking Water	03/31/16 00:00	04/05/16 13:30
OAK-03	16D0305-03	Drinking Water	03/31/16 00:00	04/05/16 13:30
OAK-04	16D0305-04	Drinking Water	03/31/16 00:00	04/05/16 13:30
OAK-05	16D0305-05	Drinking Water	03/31/16 00:00	04/05/16 13:30

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Case Narrative

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Oak Elementary School
Work Order: 16D0305

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: 16D0305
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

Cooler	Temp C°
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

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Client Sample Results

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Oak Elementary School
Work Order: 16D0305

Client Sample ID: OAK-01
Report Date: 04/22/2016
Collection Date: 03/31/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0305-01

Analyses	Result	EMT Reporting Limit	Qual	Units	Reg Limit	MDL	Date/Time Analyzed	Batch	Analyst	DF
Metals by ICP-MS										
Method: E200.8										
Arsenic	< 0.0100	0.0100		mg/L	0.01	0.0000800	04/21/16 11:14	B6D0705	AG	2
Copper	**0.247**	0.0312		mg/L	1.3	0.00375	04/06/16 17:15	B6D0151	AG	5
Lead	< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 17:15	B6D0151	AG	5

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Client Sample Results

(Continued)

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Oak Elementary School
Work Order: 16D0305

Client Sample ID: OAK-02
Report Date: 04/22/2016
Collection Date: 03/31/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0305-02

Analyses	Result	EMT Reporting Limit	Qual	Units	Reg Limit	MDL	Date/Time Analyzed	Batch	Analyst	DF
Metals by ICP-MS										
Method: E200.8										
Copper	**0.396**	0.0312		mg/L	1.3	0.00375	04/06/16 17:21	B6D0151	AG	5
Lead	< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 17:21	B6D0151	AG	5

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Client Sample Results

(Continued)

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Oak Elementary School
Work Order: 16D0305

Client Sample ID: OAK-03
Report Date: 04/22/2016
Collection Date: 03/31/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0305-03

Analyses	Result	EMT Reporting Limit	Qual	Units	Reg Limit	MDL	Date/Time Analyzed	Batch	Analyst	DF
Metals by ICP-MS										
Method: E200.8										
Copper	**0.161**	0.0312		mg/L	1.3	0.00375	04/06/16 17:23	B6D0151	AG	5
Lead	< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 17:23	B6D0151	AG	5

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Client Sample Results

(Continued)

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Oak Elementary School
Work Order: 16D0305

Client Sample ID: OAK-04
Report Date: 04/22/2016
Collection Date: 03/31/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0305-04

Analyses	Result	EMT Reporting Limit	Qual	Units	Reg Limit	MDL	Date/Time Analyzed	Batch	Analyst	DF
Metals by ICP-MS										
Method: E200.8										
Copper	**0.244**	0.0312		mg/L	1.3	0.00375	04/06/16 17:25	B6D0151	AG	5
Lead	< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 17:25	B6D0151	AG	5

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Client Sample Results

(Continued)

Client:	Integrity Env. Services, Inc.	**Client Sample ID:**	OAK-05
Project:	Drinking Water	**Report Date:**	04/22/2016
	Oak Elementary School	**Collection Date:**	03/31/2016 00:00
Work Order:	16D0305	**Matrix:**	Drinking Water
		Lab ID:	16D0305-05

Analyses	Result	EMT Reporting Limit	Qual	Units	Reg Limit	MDL	Date/Time Analyzed	Batch	Analyst	DF
Metals by ICP-MS										
Method: E200.8										
Copper	**0.342**	0.0312		mg/L	1.3	0.00375	04/06/16 17:27	B6D0151	AG	5
Lead	< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 17:27	B6D0151	AG	5

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Dates Report

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Oak Elementary School
Work Order: 16D0305

Report Date: 04/22/2016

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
16D0305-01	OAK-01	03/31/16	Drinking Water	Lead, Total ICP-MS		04/06/16 12:25	04/06/16 17:15	B6D0151	S6D0075
				Copper, Total ICP-MS		04/06/16 12:25	04/06/16 17:15		
				Arsenic, Total ICP-MS		04/21/16 09:22	04/21/16 11:14	B6D0705	S6D0292
16D0305-02	OAK-02			Lead, Total ICP-MS		04/06/16 12:25	04/06/16 17:21	B6D0151	S6D0075
				Copper, Total ICP-MS		04/06/16 12:25	04/06/16 17:21		
16D0305-03	OAK-03			Lead, Total ICP-MS		04/06/16 12:25	04/06/16 17:23		
				Copper, Total ICP-MS		04/06/16 12:25	04/06/16 17:23		
16D0305-04	OAK-04			Lead, Total ICP-MS		04/06/16 12:25	04/06/16 17:25		
				Copper, Total ICP-MS		04/06/16 12:25	04/06/16 17:25		
16D0305-05	OAK-05			Lead, Total ICP-MS		04/06/16 12:25	04/06/16 17:27		
				Copper, Total ICP-MS		04/06/16 12:25	04/06/16 17:27		

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Quality Control

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Oak Elementary School
Work Order: 16D0305

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
Batch: B6D0151											
Blank (B6D0151-BLK1)				*Prepared: 04/06/2016 12:25 Analyzed: 04/06/2016 16:43*							
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 (B6D0151-BS1)				*Prepared: 04/06/2016 12:25 Analyzed: 04/06/2016 16:45*							
Arsenic	1.12	0.0312	mg/L	1.250		89.4	85-115				5
Copper	1.27	0.0312	mg/L	1.250		101	91.6-112				5
Lead	1.31	0.0312	mg/L	1.250		105	85-115				5
Matrix Spike (B6D0151-MS1)		**Source: 16D0305-01**		*Prepared: 04/06/2016 12:25 Analyzed: 04/06/2016 17:17*							
Arsenic	1.12	0.0312	mg/L	1.250	0.0121	88.4	70-130				5
Copper	1.48	0.0312	mg/L	1.250	0.247	98.8	70-130				5
Lead	1.30	0.0312	mg/L	1.250	ND	104	70-130				5
Matrix Spike (B6D0151-MS2)		**Source: 16D0306-05**		*Prepared: 04/06/2016 12:25 Analyzed: 04/06/2016 17:46*							
Arsenic	1.12	0.0312	mg/L	1.250	ND	89.5	70-130				5
Copper	1.54	0.0312	mg/L	1.250	0.284	100	70-130				5
Lead	1.32	0.0312	mg/L	1.250	ND	106	70-130				5
Matrix Spike Dup (B6D0151-MSD1)		**Source: 16D0305-01**		*Prepared: 04/06/2016 12:25 Analyzed: 04/06/2016 17:19*							
Arsenic	1.11	0.0312	mg/L	1.250	0.0121	87.9	70-130	0.633	20		5
Copper	1.49	0.0312	mg/L	1.250	0.247	99.2	70-130	0.317	20		5
Lead	1.33	0.0312	mg/L	1.250	ND	107	70-130	2.12	20		5
Matrix Spike Dup (B6D0151-MSD2)		**Source: 16D0306-05**		*Prepared: 04/06/2016 12:25 Analyzed: 04/06/2016 17:48*							
Arsenic	1.10	0.0312	mg/L	1.250	ND	88.0	70-130	1.75	20		5
Copper	1.51	0.0312	mg/L	1.250	0.284	98.3	70-130	1.72	20		5
Lead	1.30	0.0312	mg/L	1.250	ND	104	70-130	1.38	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
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
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
E200.8 in Drinking Water		
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

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Qualifiers and Definitions

Item	Description
%Rec	Percent Recovery

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203

847-967-6666
FAX: 847-967-6735
www.emt.com

16D0305
PM: Jason Cristino
Integrity Env Services, Inc
Drinking Water

Custody Record

TURNARAOUND TIME:
☐ RUSH
____ day turnaround
☒ ROUTINE

Due Date: ____-____-____ COC #: 148692

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

Phone #: (630) 718-9133 Fax #: (630) 718-9114
P.O. # 915-16 Proj. # 915-16
Client Contact: MIKE RAINES
Project ID / Location: OAK 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:
P - Plastic V - VOC Vial O - Other
G - Glass B - Tedlar Bag

Preservative:
1. None 4. NaOH 7 Zn Ace
2 H_2SO_4 5. HCl 8. Other
3 HNO_3 6. MeOH

Analyses

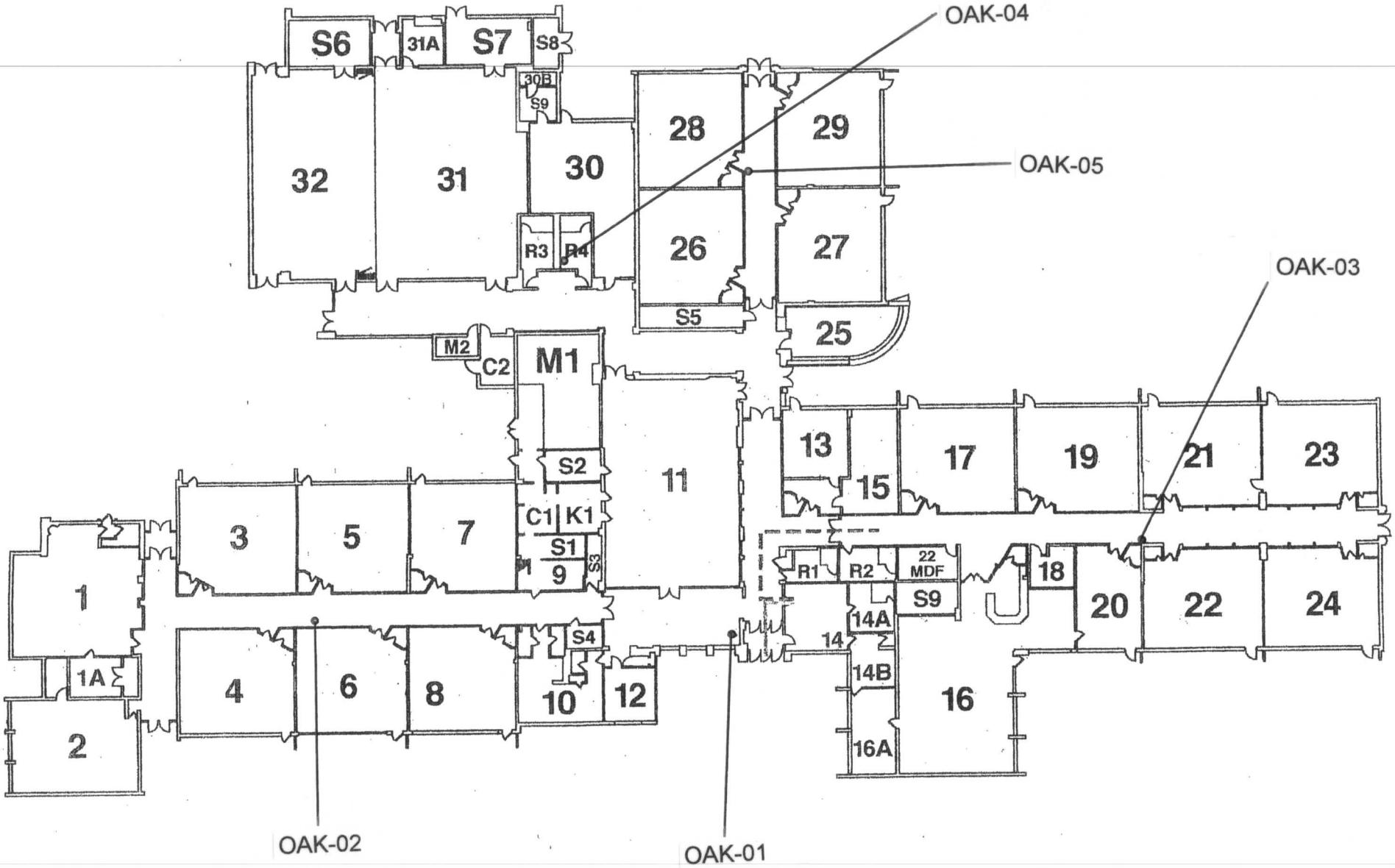
EMT USE ONLY

EMT WORKORDER #16D0305

Sample I.D.	Sample Type	Container Size	Container Type	Container No.	Sampling By	Sampling Date	Sampling Time	Preservation pH	Preservation Temp.	Preservation Field	Preservation Lab	Lead (Pb)	Copper (Cu)	Arsenic (As)	EMT USE ONLY
OAK-01	2	250ml	P	1	MR	3-31-16	AM	N/A	50.9		3	✓	✓	✓	01A
02									54.6			✓	✓		02A
03									70.0			✓	✓		03A
04									68.4			✓	✓		04A
05									69.8			✓	✓		05A

Relinquished By:	Date: 4-5-16	Received By:	Date: - -	EMT USE ONLY	☒ SAMPLE RECEIVED ON ICE
	Time: 1:30p.		Time:	Client Code:	☐ TEMPERATURE (Must be recorded if sampling was greater than 6 hrs. prior to sample receipt)
Relinquished By:	Date: - -	Received By:	Date: - -	EMT Project I.D.	4.2
	Time:		Time:		EMT SAMPLE RETURN POLICY ON BACK
Relinquished By:	Date: - -	Received For Lab By:	Date: 4-6-16	Jar Lot No.	
	Time:		Time: 13:30		

SPECIAL INSTRUCTIONS:



INTEGRITY
ENVIRONMENTAL SERVICES, INC.

1240 IROQUOIS DRIVE, SUITE 102
NAPERVILLE, ILLINOIS 60563
(630) 7189133
(630) 7189114 (FAX)

PROJECT: OAK ELEMENTARY SCHOOL
950 SOUTH STREET
HINSDALE, ILLINOIS

OWNER: COMMUNITY CONSOLIDATED SCHOOL DIST. 181
115 W. 55TH STREET
CLARENDON HILLS, ILLINOIS

DRAWN BY: GT
DATE: 4/11/16

IES NO.: 915-16

NORTH

WATER SAMPLE LOCATION DIAGRAM