Field Environmental
consulting
8612 Eagle Creek Parkway, Savage, MN 55378-1284
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mailbox@FieldConsultingInc.com

February 26, 2019

ISD #831
6100 North 210th Street
Forest Lake, MN 55025
Attn: Bill Schwartz

RE: **Amendment to Final Report: First Draw Lead in Drinking Water Sampling (November 2018)**

SITES: **Lino Lakes, Linwood, Scandia and Wyoming Elementary**

PROJECT #: **19044**

I. INTRODUCTION

Field Environmental Consulting, Inc. (FIELD ENVIRONMENTAL) tested drinking water outlets for lead concentration at Lino Lakes, Linwood, Scandia and Wyoming Elementary per District request in October 2018. In a *Final Report* dated November 14, 2018, the following results were communicated to ISD #831:

Lino Lakes Elementary:
Two (2) out of the seventy-seven (77) samples collected were above the recommended limit of 20 ppb. A sink faucet located in Classroom 207 and the kettle located within the Kitchen were above the action level.

Linwood Elementary:
Four (4) out of the forty-three (43) samples collected were above the recommended limit of 20 ppb. A sink faucet and kettle located within the Kitchen and sink faucets located in Copy Room 102 and Classroom 106 were above the action level.

Scandia Elementary:
Four (4) out of the seventy (70) samples collected were above the recommended limit of 20 ppb. Two (2) sink faucets and the kettle located within the Kitchen and a drinking fountain located in Classroom 178 were above the action level.

Wyoming Elementary:
Two (2) out of the sixty-five (65) samples collected were above the recommended limit of 20 ppb. A sink faucet within the Kitchen and a sink faucet located in Classroom 103 were above the action level.

Since the *Final Report* provided in November 2018, the District either cleaned aerators or replaced fixtures for these identified taps. After such tasks were completed, FIELD ENVIRONMENTAL resampled these fixtures on February 12, 2019.

II. METHODOLOGY

FIELD ENVIRONMENTAL collected first draw samples. First draw samples consist of water emitted from a fixture after the outlet has been sitting for a period of 8 hours or more (not exceeding 18 hours). Water was collected immediately in the morning before it could be used for other purposes. First draw samples were collected using clean 250 milliliter (mL) sampling bottles. The bottles were filled to the top, capped, recorded, and transported to a certified drinking water laboratory. Results from first draw sampling indicate lead levels for water that has been in direct contact with the faucet or drinking fountain and the section of plumbing closest to the outlet. Analysis was conducted by Pace Analytical Services, Inc. of Minneapolis, Minnesota using EPA Method 200.8 ICPMS for determination of trace elements in drinking water.

Per District request, FIELD ENVIRONMENTAL additionally collected flush draw samples. A flush sample is water

emitted from an outlet after a stated flush time. This sample is representative of the water that is in the plumbing upstream from the tap. Analysis was conducted by Pace Analytical Services, Inc. of Minneapolis, Minnesota using EPA Method 200.8 ICPMS for determination of trace elements in drinking water.

III. RESULTS

Pace Analytical laboratory reports are provided in Appendix A. Updated building maps indicating resampling locations and results are provided in Appendix B.

Lino Lakes Elementary:
Both first draw samples collected for the two (2) fixtures were well below the action level of 20 ppb. Flushing the water for a minimum of thirty seconds further reduced lead concentrations.

School Name: **Lino Lakes Elementary (LINO)**

Dates: **10/17/18 &10/31/18**, **2/12/19**

Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle	Lead Result 10/17/18 & 10/31/18 (ppb)	Lead Result 2/12/19 (ppb)	Flush Draw Lead Result 2/12/19 (ppb)
First	207	Classroom	17	S	**24.5**	0.21	0.17
First	142	Kitchen	61	K	**372**	5.1	0.83

Linwood Elementary:
After review of water usage, the sink faucet located in Copy Room 102 was disconnected. The three (3) collected first draw samples had results well below the action level of 20 ppb. Flushing the water for a minimum of thirty seconds further reduced lead concentrations.

School Name: **Linwood Elementary (LW)**

Date: **10/17/18**, **2/12/19**

Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle	Lead Result 10/17/18 (ppb)	Lead Result 2/12/19 (ppb)	Flush Draw Lead Result 2/12/19 (ppb)
First	-	Kitchen	1	S	**45.8**	**4.5**	**3**
First	-	Kitchen	5	K	**20.8**	**2.7**	1.5
First	102	Copy Room	8	S	**35.7**	Disconnected	
First	106	Classroom	19	S	**406**	**6.7**	0.11

Scandia Elementary:
Though only the drinking fountain previously tested above the action level, the District requested both the fountain and sink be resampled within Classroom 178. Both of these samples collected in Classroom 178 and the kettle located within the Kitchen had first draw results well below the action level of 20ppb. However, the two (2) sink faucets residing in the Kitchen continue to have first draw lead concentrations above the recommended limit. Flushing the water for a minimum of thirty seconds reduced lead concentrations to below the action level for all resampled taps.

School Name: **Scandia Elementary (SC)**
Date: **10/23/18, 2/12/19**

Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle	Lead Result 10/23/18 (ppb)	Lead Result 2/12/19 (ppb)	Flush Draw Lead Result 2/12/19 (ppb)
First	178	Classroom	3	S	**8**	**2.4**	1.2
First	178	Classroom	4	DF	**33.2**	**3.7**	1.7
First	-	Kitchen	6	S	**79.5**	**50.3**	**3**
First	-	Kitchen	7	S	**78.1**	**179**	**3.5**
First	-	Kitchen	10	K	**24.2**	**8.1**	0.49

Wyoming Elementary:
Both first draw samples collected for the two (2) fixtures were below the action level of 20 ppb. Flushing the water for a minimum of thirty seconds further reduced lead concentrations.

School Name: **Wyoming Elementary (WY)**
Date: **10/17/18, 2/12/19**

Floor	Room Number	Location	Sample ID	Type DF = Drinking Fountain S = Sink WC = Water Cooler BF = Bottle Filler K=Kettle	Lead Result 10/17/2018 (ppb)	Lead Result 2/12/2019 (ppb)	Flush Draw Lead Result 2/12/19 (ppb)
First	-	Kitchen	2	S	**21**	**16.5**	1.3
First	103	Classroom	57	S	**23**	**2.1**	0.11

IV. CONCLUSIONS

All resampled taps at Lino Lakes, Linwood and Wyoming Elementary had first draw results below the action level of 20 ppb. Two (2) sink faucets located within Scandia Elementary continue to be above the recommended limit for lead. However, in all instances, flushing the water for a minimum of thirty seconds reduced lead concentrations to well below the action level of 20 ppb. Therefore, flushing the water prior to consumption would be an allowable option. ISD #831 posted "flush water prior to use" signs on the two (2) sink faucets at Scandia Elementary.

ISD #831 should continue practices to keep lead in drinking water concentrations as low as possible. Recommended tasks include cleaning aerator screens on a periodic basis and flushing outlets after extended breaks.

Minnesota Statutes section 121A.335, subdivision 5 requires a school district to "make the results of testing available to the public for review and must notify parents of the availability of the information."

V. REMARKS

The environmental services performed by FIELD ENVIRONMENTAL's technicians, analysts and project managers for this

project have been conducted in a manner consistent with the degree of care and technical skill exercised by environmental professionals currently practicing in this area under similar budget and time constraints. Recommendations contained in this report represent our professional judgment at the time the project was performed.

No warranty or guarantee, expressed or implied, is made regarding the findings, conclusions, or recommendations contained in this report.

FIELD ENVIRONMENTAL appreciates the opportunity to provide services to meet your environmental needs. Any questions regarding the fieldwork, sample results or presented findings should be directed to Field Environmental Consulting, Inc.

PREPARED and REVIEWED BY:

Field Environmental Consulting, Inc.

Amy Weinzierl, CSP (#27824)
EHS & IAQ Manager
Amy@fieldconsultinginc.com

Attachments
Appendix A: Laboratory Reports
Appendix B: Drawings

APPENDIX A

LABORATORY REPORTS

Field Environmental consulting

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

February 20, 2019

Amy Weinzierl
Field Environmental Consulting
8612 Eagle Creek Parkway
Savage, MN 55378

RE: Project: 19044 ISD 831 ISD 831 Resampl-Revised Report
Pace Project No.: 10463976

Dear Amy Weinzierl:
Enclosed are the analytical results for sample(s) received by the laboratory on February 12, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised on February 20, 2019 to change the sample IDs for samples 001-004.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jared Dickinson
jared.dickinson@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: General Mailbox, Field Environmental Consulting

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 19044 ISD 831 ISD 831 Resampl-Revised Report
Pace Project No.: 10463976

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: 19044 ISD 831 ISD 831 Resampl-Revised Report
Pace Project No.: 10463976

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10463976001	**17R-LINO-S**	Drinking Water	02/12/19 06:00	02/12/19 13:40
10463976002	**17R-LINO-S-30SEC**	Drinking Water	02/12/19 06:00	02/12/19 13:40
10463976003	**61R-LINO-K**	Drinking Water	02/12/19 06:00	02/12/19 13:40
10463976004	**61R-LINO-K-30SEC**	Drinking Water	02/12/19 06:00	02/12/19 13:40
10463976005	**IR-LW-S**	Drinking Water	02/12/19 06:30	02/12/19 13:40
10463976006	**5R-LW-K**	Drinking Water	02/12/19 06:30	02/12/19 13:40
10463976007	**5R-LW-K-30SEC**	Drinking Water	02/12/19 06:30	02/12/19 13:40
10463976008	**19R-LW-S-Class 106**	Drinking Water	02/12/19 06:30	02/12/19 13:40
10463976009	**19R-LW-S- 30SEC-Class 106**	Drinking Water	02/12/19 06:30	02/12/19 13:40
10463976010	**2R-WY-S**	Drinking Water	02/12/19 07:00	02/12/19 13:40
10463976011	**2R-WY-S-30SEC**	Drinking Water	02/12/19 07:00	02/12/19 13:40
10463976012	**57R-WY-S**	Drinking Water	02/12/19 07:00	02/12/19 13:40
10463976013	**57R-WY-S-30SEC**	Drinking Water	02/12/19 07:00	02/12/19 13:40
10463976014	**4R-SC-DF**	Drinking Water	02/12/19 08:00	02/12/19 13:40
10463976015	**4R-SC-DF-30SEC**	Drinking Water	02/12/19 08:00	02/12/19 13:40
10463976016	**3R-SC-S**	Drinking Water	02/12/19 08:00	02/12/19 13:40
10463976017	**3R-SC-S-30SEC**	Drinking Water	02/12/19 08:00	02/12/19 13:40
10463976018	**6R-SC-S-Left**	Drinking Water	02/12/19 08:00	02/12/19 13:40
10463976019	**6R-SC-S-30SEC-Left**	Drinking Water	02/12/19 08:00	02/12/19 13:40
10463976020	**7R-SC-S-Right**	Drinking Water	02/12/19 08:00	02/12/19 13:40
10463976021	**7R-SC-S-30SEC-Right**	Drinking Water	02/12/19 08:00	02/12/19 13:40
10463976022	**10R-SC-K**	Drinking Water	02/12/19 08:00	02/12/19 13:40
10463976023	**10R-SC-K-30SEC**	Drinking Water	02/12/19 08:00	02/12/19 13:40
10463976024	**IR-LW-S-30SEC**	Drinking Water	02/12/19 06:30	02/12/19 13:40

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 19044 ISD 831 ISD 831 Resampl-Revised Report
Pace Project No.: 10463976

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10463976001	17R-LINO-S	EPA 200.8	PW1	1
10463976002	17R-LINO-S-30SEC	EPA 200.8	PW1	1
10463976003	61R-LINO-K	EPA 200.8	PW1	1
10463976004	61R-LINO-K-30SEC	EPA 200.8	PW1	1
10463976005	IR-LW-S	EPA 200.8	PW1	1
10463976006	5R-LW-K	EPA 200.8	PW1	1
10463976007	5R-LW-K-30SEC	EPA 200.8	PW1	1
10463976008	19R-LW-S-Class 106	EPA 200.8	PW1	1
10463976009	19R-LW-S- 30SEC-Class 106	EPA 200.8	PW1	1
10463976010	2R-WY-S	EPA 200.8	PW1	1
10463976011	2R-WY-S-30SEC	EPA 200.8	PW1	1
10463976012	57R-WY-S	EPA 200.8	PW1	1
10463976013	57R-WY-S-30SEC	EPA 200.8	PW1	1
10463976014	4R-SC-DF	EPA 200.8	PW1	1
10463976015	4R-SC-DF-30SEC	EPA 200.8	PW1	1
10463976016	3R-SC-S	EPA 200.8	PW1	1
10463976017	3R-SC-S-30SEC	EPA 200.8	PW1	1
10463976018	6R-SC-S-Left	EPA 200.8	PW1	1
10463976019	6R-SC-S-30SEC-Left	EPA 200.8	PW1	1
10463976020	7R-SC-S-Right	EPA 200.8	PW1	1
10463976021	7R-SC-S-30SEC-Right	EPA 200.8	PW1	1
10463976022	10R-SC-K	EPA 200.8	PW1	1
10463976023	10R-SC-K-30SEC	EPA 200.8	PW1	1
10463976024	IR-LW-S-30SEC	EPA 200.8	PW1	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 19044 ISD 831 ISD 831 Resampl-Revised Report
Pace Project No.: 10463976

Sample: 17R-LINO-S **Lab ID: 10463976001** Collected: 02/12/19 06:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**0.21**	ug/L	0.10	1		02/19/19 09:07	7439-92-1	

Sample: 17R-LINO-S-30SEC **Lab ID: 10463976002** Collected: 02/12/19 06:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**0.17**	ug/L	0.10	1		02/19/19 09:14	7439-92-1	

Sample: 61R-LINO-K **Lab ID: 10463976003** Collected: 02/12/19 06:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Lead	**5.1**	ug/L	0.10	1	02/14/19 06:18	02/19/19 10:30	7439-92-1	

Sample: 61R-LINO-K-30SEC **Lab ID: 10463976004** Collected: 02/12/19 06:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**0.83**	ug/L	0.10	1		02/19/19 09:16	7439-92-1	

Sample: IR-LW-S **Lab ID: 10463976005** Collected: 02/12/19 06:30 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**4.5**	ug/L	0.10	1		02/19/19 09:21	7439-92-1	

Sample: 5R-LW-K **Lab ID: 10463976006** Collected: 02/12/19 06:30 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**2.7**	ug/L	0.10	1		02/19/19 09:23	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19044 ISD 831 ISD 831 Resampl-Revised Report
Pace Project No.: 10463976

Sample: 5R-LW-K-30SEC **Lab ID: 10463976007** Collected: 02/12/19 06:30 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**1.5**	ug/L	0.10	1		02/19/19 09:25	7439-92-1	

Sample: 19R-LW-S-Class 106 **Lab ID: 10463976008** Collected: 02/12/19 06:30 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**6.7**	ug/L	0.10	1		02/19/19 09:27	7439-92-1	

Sample: 19R-LW-S- 30SEC-Class 106 **Lab ID: 10463976009** Collected: 02/12/19 06:30 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**0.11**	ug/L	0.10	1		02/19/19 09:29	7439-92-1	

Sample: 2R-WY-S **Lab ID: 10463976010** Collected: 02/12/19 07:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**16.5**	ug/L	0.10	1		02/19/19 09:30	7439-92-1	

Sample: 2R-WY-S-30SEC **Lab ID: 10463976011** Collected: 02/12/19 07:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**1.3**	ug/L	0.10	1		02/19/19 09:32	7439-92-1	

Sample: 57R-WY-S **Lab ID: 10463976012** Collected: 02/12/19 07:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**2.1**	ug/L	0.10	1		02/19/19 09:34	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19044 ISD 831 ISD 831 Resampl-Revised Report
Pace Project No.: 10463976

Sample: 57R-WY-S-30SEC **Lab ID: 10463976013** Collected: 02/12/19 07:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**0.11**	ug/L	0.10	1		02/19/19 09:41	7439-92-1	

Sample: 4R-SC-DF **Lab ID: 10463976014** Collected: 02/12/19 08:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**3.7**	ug/L	0.10	1		02/19/19 09:43	7439-92-1	

Sample: 4R-SC-DF-30SEC **Lab ID: 10463976015** Collected: 02/12/19 08:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**1.7**	ug/L	0.10	1		02/19/19 09:45	7439-92-1	

Sample: 3R-SC-S **Lab ID: 10463976016** Collected: 02/12/19 08:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**2.4**	ug/L	0.10	1		02/19/19 09:46	7439-92-1	

Sample: 3R-SC-S-30SEC **Lab ID: 10463976017** Collected: 02/12/19 08:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**1.2**	ug/L	0.10	1		02/19/19 09:48	7439-92-1	

Sample: 6R-SC-S-Left **Lab ID: 10463976018** Collected: 02/12/19 08:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**50.3**	ug/L	0.10	1		02/19/19 09:50	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19044 ISD 831 ISD 831 Resampl-Revised Report
Pace Project No.: 10463976

Sample: 6R-SC-S-30SEC-Left **Lab ID: 10463976019** Collected: 02/12/19 08:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**3.0**	ug/L	0.10	1		02/19/19 09:52	7439-92-1	

Sample: 7R-SC-S-Right **Lab ID: 10463976020** Collected: 02/12/19 08:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**179**	ug/L	0.10	1		02/19/19 09:54	7439-92-1	

Sample: 7R-SC-S-30SEC-Right **Lab ID: 10463976021** Collected: 02/12/19 08:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**3.5**	ug/L	0.10	1		02/19/19 10:10	7439-92-1	

Sample: 10R-SC-K **Lab ID: 10463976022** Collected: 02/12/19 08:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**8.1**	ug/L	0.10	1		02/19/19 10:17	7439-92-1	

Sample: 10R-SC-K-30SEC **Lab ID: 10463976023** Collected: 02/12/19 08:00 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**0.49**	ug/L	0.10	1		02/19/19 10:19	7439-92-1	

Sample: IR-LW-S-30SEC **Lab ID: 10463976024** Collected: 02/12/19 06:30 Received: 02/12/19 13:40 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Method: EPA 200.8							
Lead	**3.0**	ug/L	0.10	1		02/19/19 10:21	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 19044 ISD 831 ISD 831 Resampl-Revised Report
Pace Project No.: 10463976

QC Batch: 589692 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, Drinking Water
Associated Lab Samples: 10463976021, 10463976022, 10463976023, 10463976024

METHOD BLANK: 3189494 Matrix: Water
Associated Lab Samples: 10463976021, 10463976022, 10463976023, 10463976024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	0.10	02/19/19 09:59	

LABORATORY CONTROL SAMPLE: 3189495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	101	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193657 3193658

Parameter	Units	10463976021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	3.5	100	100	99.9	99.5	96	96	70-130	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 19044 ISD 831 ISD 831 Resampl-Revised Report
Pace Project No.: 10463976

QC Batch: 589711 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, Drinking Water
Associated Lab Samples: 10463976001, 10463976002, 10463976004, 10463976005, 10463976006, 10463976007, 10463976008, 10463976009, 10463976010, 10463976011, 10463976012, 10463976013, 10463976014, 10463976015, 10463976016, 10463976017, 10463976018, 10463976019, 10463976020

METHOD BLANK: 3189725 Matrix: Water
Associated Lab Samples: 10463976001, 10463976002, 10463976004, 10463976005, 10463976006, 10463976007, 10463976008, 10463976009, 10463976010, 10463976011, 10463976012, 10463976013, 10463976014, 10463976015, 10463976016, 10463976017, 10463976018, 10463976019, 10463976020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	0.10	02/19/19 09:03	

LABORATORY CONTROL SAMPLE: 3189726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	103	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3193633 3193634

Parameter	Units	10463976001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	0.21	100	100	102	103	101	102	70-130	1	20	

MATRIX SPIKE SAMPLE: 3193635

Parameter	Units	10463976012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	2.1	100	107	105	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 19044 ISD 831 ISD 831 Resampl-Revised Report
Pace Project No.: 10463976

QC Batch: 589908 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET
Associated Lab Samples: 10463976003

METHOD BLANK: 3190738 Matrix: Water
Associated Lab Samples: 10463976003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	0.10	02/19/19 10:26	

LABORATORY CONTROL SAMPLE: 3190739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	93.9	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3190740 3190741

Parameter	Units	10463976003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	5.1	100	100	98.4	94.7	93	90	70-130	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 19044 ISD 831 ISD 831 Resampl-Revised Report
Pace Project No.: 10463976

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19044 ISD 831 ISD 831 Resampl-Revised Report
Pace Project No.: 10463976

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10463976001	**17R-LINO-S**	EPA 200.8	589711		
10463976002	**17R-LINO-S-30SEC**	EPA 200.8	589711		
10463976004	**61R-LINO-K-30SEC**	EPA 200.8	589711		
10463976005	**IR-LW-S**	EPA 200.8	589711		
10463976006	**5R-LW-K**	EPA 200.8	589711		
10463976007	**5R-LW-K-30SEC**	EPA 200.8	589711		
10463976008	**19R-LW-S-Class 106**	EPA 200.8	589711		
10463976009	**19R-LW-S- 30SEC-Class 106**	EPA 200.8	589711		
10463976010	**2R-WY-S**	EPA 200.8	589711		
10463976011	**2R-WY-S-30SEC**	EPA 200.8	589711		
10463976012	**57R-WY-S**	EPA 200.8	589711		
10463976013	**57R-WY-S-30SEC**	EPA 200.8	589711		
10463976014	**4R-SC-DF**	EPA 200.8	589711		
10463976015	**4R-SC-DF-30SEC**	EPA 200.8	589711		
10463976016	**3R-SC-S**	EPA 200.8	589711		
10463976017	**3R-SC-S-30SEC**	EPA 200.8	589711		
10463976018	**6R-SC-S-Left**	EPA 200.8	589711		
10463976019	**6R-SC-S-30SEC-Left**	EPA 200.8	589711		
10463976020	**7R-SC-S-Right**	EPA 200.8	589711		
10463976021	**7R-SC-S-30SEC-Right**	EPA 200.8	589692		
10463976022	**10R-SC-K**	EPA 200.8	589692		
10463976023	**10R-SC-K-30SEC**	EPA 200.8	589692		
10463976024	**IR-LW-S-30SEC**	EPA 200.8	589692		
10463976003	**61R-LINO-K**	EPA 200.8	589908	EPA 200.8	590475

REPORT OF LABORATORY ANALYSIS

Pace Analytical®

Field Environmental Consulting, Inc.
8612 Eagle Creek Parkway
Savage, MN 55378

Attn: Amy Weinzierl
952-746-5880
Mailbox@fieldconsultinginc.com

CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL

WO# : 10463976

10463976

Page: 1 of 2

2280126

Section B Required Project Information:

Report To: Amy Weinzierl
Copy To: "
Purchase Order No.:
Project Name: ISD 831 Resamples
Project Number: 19044 ISD 831

Section C Invoice Information:

Attention: Jenny Field
Company Name: Field Environmental
Address: same
Pace Quote Reference:
Pace Project Manager: Jared Dickinson
Pace Profile #: 17781, 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☒ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: Lead 200.8	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	17R-LIND-S	DW	G			2/12/19	6:00am		6												001
2	17R-LIND-S-30SEC																				002
3	61R-LIND-K																				003
4	61R-LIND-K-30SEC																				004
5	1R-LW-S					2/12/19	6:30am														005
6	5R-LW-K																				006
7	5R-LW-K-30SEC																				007
8	19R-LW-S-Class1D6																				008
9	19R-LW-S-30SEC-Class1D6																				009
10	2R-WW-S					2/12/19	7:00am														010
11	2R-WW-S-30SEC																				011
12	57R-WW-S																				012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Amy Weinzierl	2/12/19			2/12/19	1840	17.3	N	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Amy Weinzierl
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 2/12/19

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Field Environmental Consulting, Inc.
8612 Eagle Creek Parkway
Savage, MN 55378

Attn: Amy Weinzierl
952-746-5880
Mailbox@fieldconsultinginc.com

Page: 2 of 2

2280127

Section B — Required Project Information:
Report To: Amy Weinzierl
Copy To: (( ))
Purchase Order No.:
Project Name: JSD 831 Resamples
Project Number: 19044 JSD 831

Section C — Invoice Information:
Attention: Jennifer Field
Company Name: Field Environmental
Address: Same
Pace Quote Reference:
Pace Project Manager: Jared Dickinson
Pace Profile #: 1788.1

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☑ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D — Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Load 200.8	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	5R - WW - S - 30SEC	DW	C			2/12/19	7:01am			✓									✓		RE ~~001~~ (013)
2	4R - SC - DF					2/12/19	8:02am														2/12/19 WZ (014)
3	4R - SC - DF - 30SEC																				015
4	3R - SC - S																				016
5	3R - SC - S - 30SEC																				017
6	6R - SC - S - left																				018
7	6R - SC - S - 30SEC - left																				019
8	7R - SC - S - Right																				020
9	7R - SC - S - 30SEC - Right																				021
10	10R - SC - K																				022
11	10R - SC - K - 30SEC																				023
12	1R - LW - S - 30SEC ~~End Page~~																				024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	(2) SAMPLE CONDITIONS			
		2/12/19			2/12/19	1340	17.3	N	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Amy Weinzierl
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2/12/19

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-C-010-rev.00, 09Nov2017

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 06Feb2019 Page 1 of 1
	Document No.: **F-MN-L-213-rev.25**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt **Client Name:** Field Env Consult **Project #:** **WO#: 10463976**

PM: JDD **Due Date: 02/19/19**

CLIENT: FIELD ENV

Courier: ☐Fed Ex ☐UPS ☐USPS ☒Client ☐Pace ☐SpeeDee ☐Commercial **See Exception** ☐

Tracking Number:

Custody Seal on Cooler/Box Present? ☐Yes ☒No **Seals Intact?** ☐Yes ☒No **Biological Tissue Frozen?** ☐Yes ☐No ☒N/A

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☒None ☐Other: **Temp Blank?** ☐Yes ☒No

Thermometer: ☒G87A9155100842 ☐G87A9170600254 **Type of Ice:** ☐Wet ☐Blue ☒None ☐Dry ☐Melted

Note: Each West Virginia Sample must have temp taken (no temp blanks)

Temp should be above freezing to 6°C	**Cooler Temp Read w/temp blank:** °C	**Average Corrected Temp (no temp blank only):** 17.3 °C **See Exceptions** ☒
Correction Factor:	**Cooler Temp Corrected w/temp blank:** °C	

USDA Regulated Soil: (☒N/A, water sample/Other:)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☐No

Date/Initials of Person Examining Contents: KW 2/12/19

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present and Filled Out?	☒Yes	☐No		1.
Chain of Custody Relinquished?	☒Yes	☐No		2.
Sampler Name and/or Signature on COC?	☒Yes	☐No	☐N/A	3.
Samples Arrived within Hold Time?	☒Yes	☐No		4.
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No		5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other
Rush Turn Around Time Requested?	☐Yes	☒No		6.
Sufficient Volume?	☒Yes	☐No		7.
Correct Containers Used? -Pace Containers Used?	☒Yes ☒Yes	☐No ☐No		8.
Containers Intact?	☒Yes	☐No		9.
Field Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☒N/A	10. Is sediment visible in the dissolved container? ☐Yes ☐No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒Water ☐Soil ☐Oil ☐Other	☒Yes	☐No		11. **If no, write ID/ Date/Time on Container Below:** Additional Sample present (Sample 24) but no present on COC **See Exception** ☐
All containers needing acid/base preservation have been checked?	☒Yes	☐No	☐N/A	12. Sample # 1-23 1/1 ☐NaOH ☒HNO_3 ☐H_2SO_4 ☐Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide)	☐Yes	☒No	☐N/A	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐Yes	☐No	☒N/A	Positive for Res. Chlorine? ☐Yes ☐No **See Exception** ☒
Headspace in VOA Vials (greater than 6mm)?	☐Yes	☐No	☒N/A	13. **See Exception** ☐
Trip Blank Present?	☐Yes	☐No	☒N/A	14.
Trip Blank Custody Seals Present?	☐Yes	☐No	☒N/A	Pace Trip Blank Lot # (if purchased): NA

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: **Date:** 02/13/19

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: KW

Pace Analytical	Document Name: SCUR Exception Form – Coolers Above 6°C	Document Revised: 04Feb2019 Page 1 of 1
	Document No.: F-MN-C-298-Rev.01	Issuing Authority: Pace Minnesota Quality Office

During sample triage, this form is to be placed in each cooler that arrives above 6.0 degrees Celsius

SCUR Exceptions: **Workorder #:**

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☑No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

No ice

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp
18.1	17.8	17.3
18.1	17.8	
18.0	17.7	
16.2	15.9	

Other Issues

Issue Type: Sample ID	Container Type	# of Containers

Tracking Number	

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
1-23	HNO_3	>6	2/12/19	1640	1mL	118090	1	☑Yes ☐No	KV
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

APPENDIX B

Drawings

Field Environmental
consulting

Lino Lakes Elementary School
Lead in Drinking Water
Project # 19044

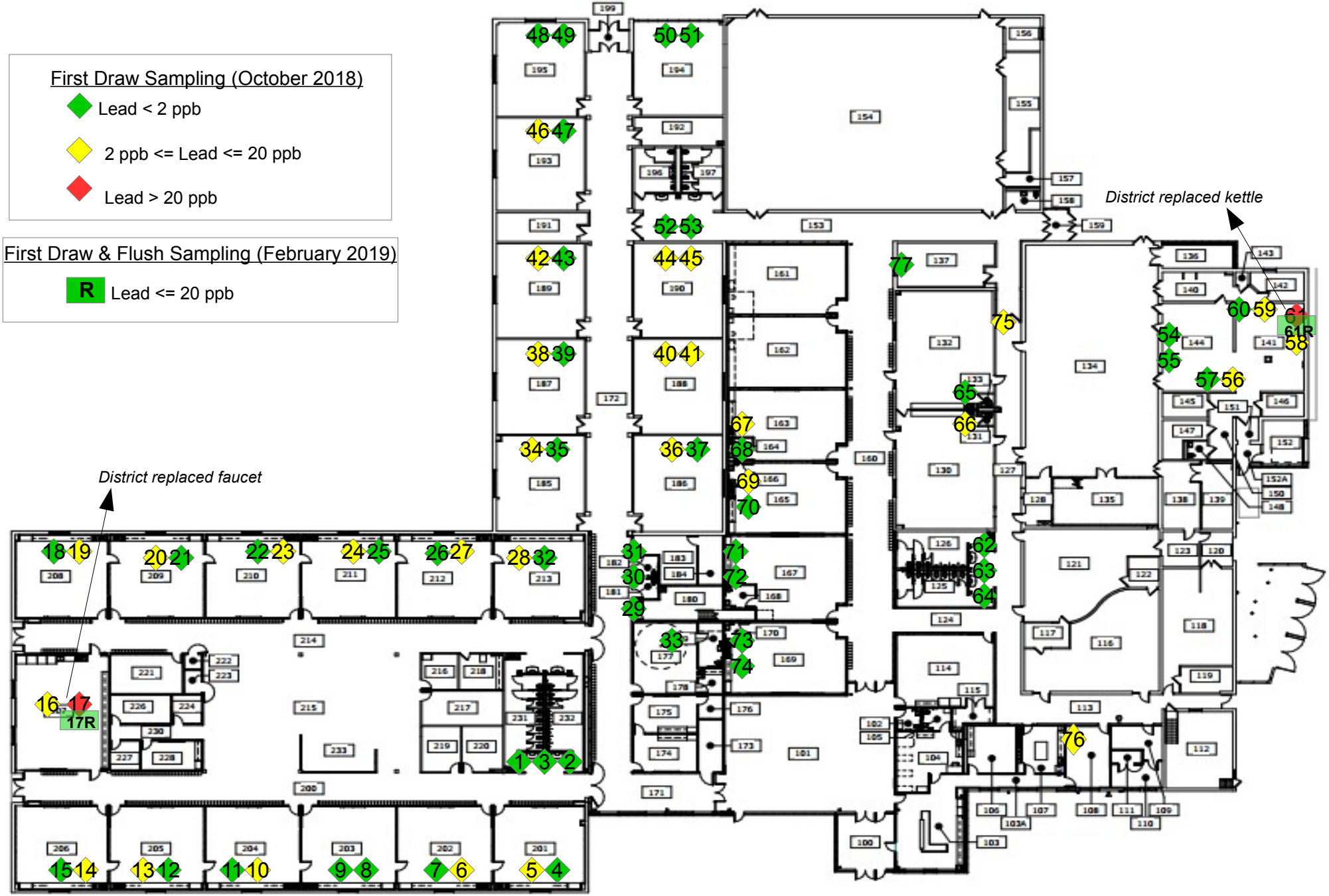
Field Environmental consulting

First Draw Sampling (October 2018)

- Lead < 2 ppb
- 2 ppb <= Lead <= 20 ppb
- Lead > 20 ppb

First Draw & Flush Sampling (February 2019)

- R — Lead <= 20 ppb



Linwood Elementary School
Lead in Drinking Water
Project # 19044

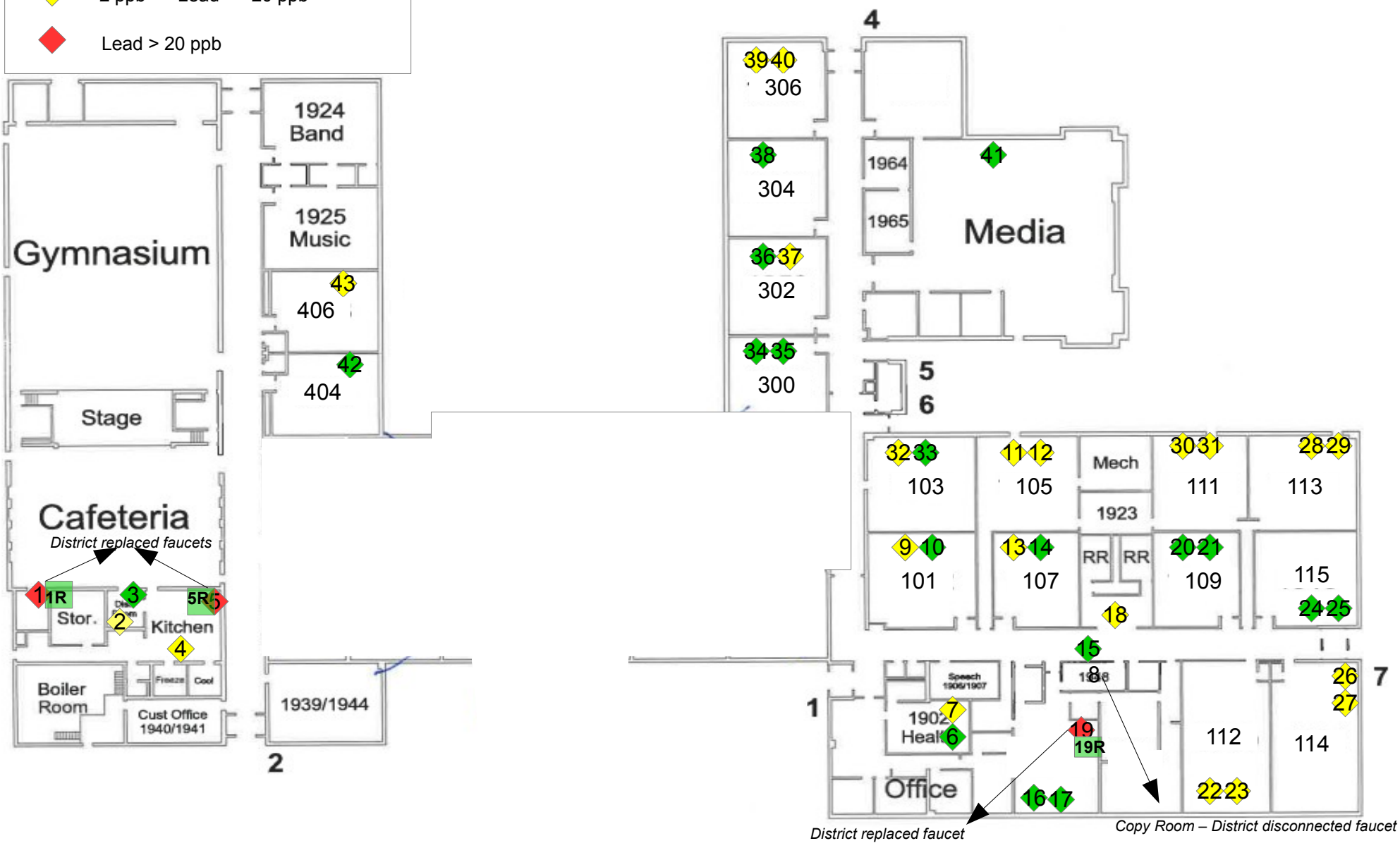
Field Environmental consulting

First Draw Sampling (October 2018)

- Lead <= 2 ppb
- 2 ppb <= Lead <= 20 ppb
- Lead > 20 ppb

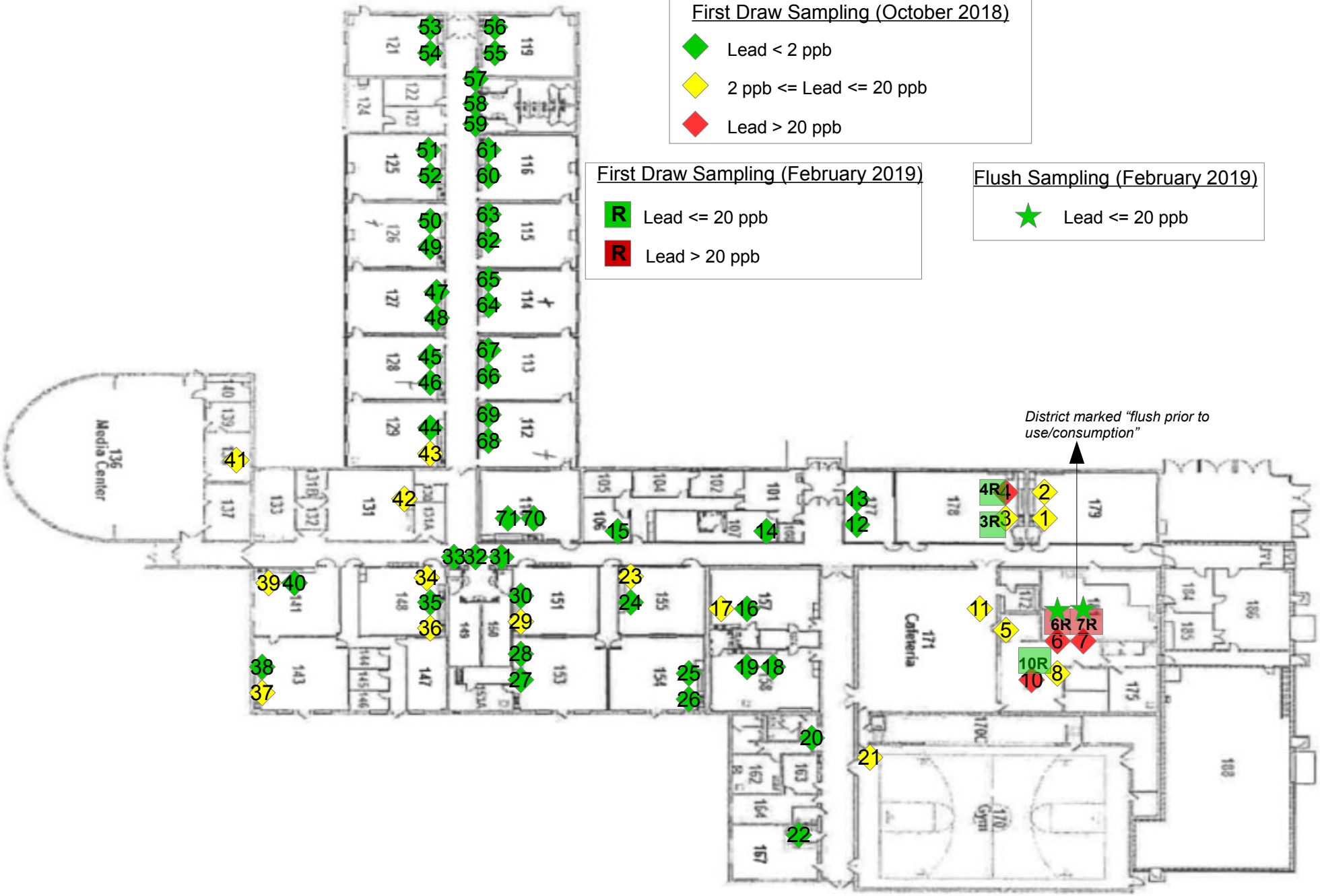
First Draw & Flush Sampling (February 2019)

- R — Lead <= 20 ppb



Scandia Elementary School
Lead in Drinking Water
Project # 19044

Field Environmental consulting



Wyoming Elementary School
Lead in Drinking Water
Project # 19044

Field Environmental consulting