

POST-FILTER INSTALLATION SAMPLING RESULTS REPORT

Northwestern High School



January 9, 2017

INTRODUCTION

During the month of September 2016, the Department of Licensing and Regulatory Affairs (DLARA) completed replacement of drinking water fixtures at Northwestern High School. These fixture replacements were required because testing results indicated that the older fixtures at most schools were imparting lead to the drinking water. After the fixtures were replaced, a more thorough flushing of the plumbing lines was completed to remove any remaining materials from the building's water supply system.

On Saturday, October 1st, 2016, the DLARA and the Department of Environmental Quality (DEQ) conducted a post-fixture sampling assessment of the plumbing system at the facility.

For the protection of public health, DLARA started offering the installation of filters in Flint daycares and schools. This work began in July 2016.

By December 10th, 2016, filters were installed by the DLARA and sampling of the drinking water through the filters was conducted by the DEQ and DLARA.

Water Main Description

An internal inspection of the building yielded an eight-inch cast iron or ductile iron pipe that connected to a four-inch galvanized line.

SAMPLING METHODS

Fixture Sampling

There are 39 drinking water fixtures that were initially identified at the school. After a minimum six-hour stagnation period, four samples were collected at each of the fixtures identified. Two initial samples were collected immediately after turning on the tap. The water was then flushed for 30 seconds and a third sample was collected. Finally, the water was flushed for another two minutes, and the fourth sample was collected. These samples were used to determine the impact of any lead sources in and around each specific fixture and its connecting plumbing.

Deep Plumbing Sampling

A different sampling method is used to determine the impact of any lead sources located deep in the supply plumbing of the building. During this method, ten bottles are collected in a row (consecutively). These bottles are one liter in size, which is larger than those used for the fixture sampling method.

SAMPLING NOTES

December 30, 2015

- One hundred and fifty-six samples from 39 fixtures were collected and sent to the lab for analysis.
- Fifty samples from five specific fixtures were collected to test the deeper part of the plumbing system and sent to the lab for analysis.

October 1, 2016

- The fixture sampling method was modified before this assessment. One sample was collected from each fixture in a 250 milliliter bottle.
- Sixty-four samples from 64 working and accessible fixtures were collected and sent to the lab for analysis.
- Forty samples from four specific fixtures were collected to test the deeper part of the plumbing system and sent to the lab for analysis.

December 10, 2016

- Fifty-three samples from 53 working, accessible, drinking water fixtures were collected and sent to the lab for analysis.
- Samples were collected in 250 milliliter bottles.
- Some fixtures were not used for drinking water, inoperable or taken out of service and were not sampled.

SAMPLING RESULTS

Pre-Fixture Replacement

December 30, 2015
Of the 206 samples:

- Lead Range: Non-Detected (ND) to 647 parts per billion (ppb)
- Copper Range: ND to 2,810 ppb

Post-Fixture Replacement

October 1, 2016
Of the 104 samples:

- Lead Range: ND to 898 ppb
- Copper Range: ND to 39,120 ppb

Post-Filter Replacement

December 10, 2016
Of the 53 samples:

- Lead Range: All samples were ND
- Copper Range: ND to 890 ppb

** Where the result is non-detected for lead it means that the amount of lead in the water was less than 1 ppb.*

** Where the result is non-detected for copper it means that the amount of copper in the water was less than 50 ppb.*

January 9, 2017

Northwestern High School

December 30, 2015

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	4	KC001 CUSTODIAN BREAK ROOM	P1	Copper	140
Lead	4	KC001 CUSTODIAN BREAK ROOM	P2	Copper	60
Lead	1	KC001 CUSTODIAN BREAK ROOM	F01	Copper	ND
Lead	ND	KC001 CUSTODIAN BREAK ROOM	F02	Copper	ND
Lead	1	NS003 NURSE STATION BY CLINIC	P1	Copper	370
Lead	ND	NS003 NURSE STATION BY CLINIC	P2	Copper	480
Lead	ND	NS003 NURSE STATION BY CLINIC	F01	Copper	250
Lead	ND	NS003 NURSE STATION BY CLINIC	F02	Copper	110
Lead	1	NS004 ROOM 1 WELLNESS CLINIC	P1	Copper	590
Lead	ND	NS004 ROOM 1 WELLNESS CLINIC	P2	Copper	680
Lead	ND	NS004 ROOM 1 WELLNESS CLINIC	F01	Copper	580
Lead	ND	NS004 ROOM 1 WELLNESS CLINIC	F02	Copper	160
Lead	4	NS005 ROOM 2 WELLNESS CLINIC	P1	Copper	650
Lead	1	NS005 ROOM 2 WELLNESS CLINIC	P2	Copper	460
Lead	ND	NS005 ROOM 2 WELLNESS CLINIC	F01	Copper	150
Lead	ND	NS005 ROOM 2 WELLNESS CLINIC	F02	Copper	90
Lead	2	CF006 CHILD TODDLER CARE	P1	Copper	750
Lead	ND	CF006 CHILD TODDLER CARE	P2	Copper	550
Lead	ND	CF006 CHILD TODDLER CARE	F01	Copper	560
Lead	ND	CF006 CHILD TODDLER CARE	F02	Copper	390
Lead	4	CF007 INFANT ROOM	P1	Copper	200
Lead	ND	CF007 INFANT ROOM	P2	Copper	330
Lead	ND	CF007 INFANT ROOM	F01	Copper	540
Lead	ND	CF007 INFANT ROOM	F02	Copper	150
Lead	54	DW008 NEXT TO ROOM 309 E HALL	P1	Copper	640
Lead	7	DW008 NEXT TO ROOM 309 E HALL	P2	Copper	70
Lead	34	DW008 NEXT TO ROOM 309 E HALL	F01	Copper	460
Lead	65	DW008 NEXT TO ROOM 309 E HALL	F02	Copper	2,020
Lead	47	DW009 NEXT TO ROOM 309 E HALL	P1	Copper	460
Lead	53	DW009 NEXT TO ROOM 309 E HALL	P2	Copper	1,500
Lead	82	DW009 NEXT TO ROOM 309 E HALL	F01	Copper	2,500
Lead	55	DW009 NEXT TO ROOM 309 E HALL	F02	Copper	1,520
Lead	44	DW010 NEXT TO ROOM 309 E HALL	P1	Copper	220
Lead	23	DW010 NEXT TO ROOM 309 E HALL	P2	Copper	240
Lead	39	DW010 NEXT TO ROOM 309 E HALL	F01	Copper	930
Lead	24	DW010 NEXT TO ROOM 309 E HALL	F02	Copper	400
Lead	149	DW011 ROOM 310	P1	Copper	210
Lead	44	DW011 ROOM 310	P2	Copper	100
Lead	29	DW011 ROOM 310	F01	Copper	70
Lead	4	DW011 ROOM 310	F02	Copper	ND
Lead	67	CF013 ROOM 310	P1	Copper	220
Lead	33	CF013 ROOM 310	P2	Copper	140

Non-detected (ND) means; for lead the amount in water is less than 1 ppb and for copper the amount in water is less than 50 ppb.

Northwestern High School

December 30, 2015

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	10	CF013 ROOM 310	F01	Copper	ND
Lead	1	CF013 ROOM 310	F02	Copper	ND
Lead	236	CF014 427 WORK ROOM	P1	Copper	700
Lead	647	CF014 427 WORK ROOM	P2	Copper	1,600
Lead	36	CF014 427 WORK ROOM	F01	Copper	650
Lead	9	CF014 427 WORK ROOM	F02	Copper	280
Lead	304	KC015 ROOM 415B	P1	Copper	1,170
Lead	248	KC015 ROOM 415B	P2	Copper	1,590
Lead	8	KC015 ROOM 415B	F01	Copper	140
Lead	6	KC015 ROOM 415B	F02	Copper	130
Lead	12	CF016 ROOM 415A	P1	Copper	410
Lead	9	CF016 ROOM 415A	P2	Copper	570
Lead	ND	CF016 ROOM 415A	F01	Copper	ND
Lead	ND	CF016 ROOM 415A	F02	Copper	ND
Lead	12	DW017 ACROSS FROM ROOM 420	P1	Copper	500
Lead	13	DW017 ACROSS FROM ROOM 420	P2	Copper	580
Lead	387	DW017 ACROSS FROM ROOM 420	F01	Copper	1,280
Lead	72	DW017 ACROSS FROM ROOM 420	F02	Copper	670
Lead	59	DW018 ACROSS FROM ROOM 420	P1	Copper	590
Lead	68	DW018 ACROSS FROM ROOM 420	P2	Copper	500
Lead	49	DW018 ACROSS FROM ROOM 420	F01	Copper	380
Lead	11	DW018 ACROSS FROM ROOM 420	F02	Copper	230
Lead	190	DW019 ACROSS FROM ROOM 420	P1	Copper	420
Lead	34	DW019 ACROSS FROM ROOM 420	P2	Copper	220
Lead	140	DW019 ACROSS FROM ROOM 420	F01	Copper	330
Lead	20	DW019 ACROSS FROM ROOM 420	F02	Copper	190
Lead	18	DW022 ACROSS FROM ROOM 407	P1	Copper	210
Lead	5	DW022 ACROSS FROM ROOM 407	P2	Copper	90
Lead	3	DW022 ACROSS FROM ROOM 407	F01	Copper	70
Lead	3	DW022 ACROSS FROM ROOM 407	F02	Copper	60*
Lead	3	CF023 ROOM 414	P1	Copper	330
Lead	2	CF023 ROOM 414	P2	Copper	100
Lead	2	CF023 ROOM 414	F01	Copper	130
Lead	2	CF023 ROOM 414	F02	Copper	190
Lead	41	CF024 ROOM 216A	P1	Copper	180
Lead	85	CF024 ROOM 216A	P2	Copper	340
Lead	10	CF024 ROOM 216A	F01	Copper	1,130
Lead	7	CF024 ROOM 216A	F02	Copper	820
Lead	19	CF025 ROOM 217	P1	Copper	390
Lead	12	CF025 ROOM 217	P2	Copper	470
Lead	6	CF025 ROOM 217	F01	Copper	250

* Copper quality control results were outside allowed limits due to matrix interferences

Non-detected (ND) means; for lead the amount in water is less than 1 ppb and for copper the amount in water is less than 50 ppb.

Northwestern High School

December 30, 2015

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	2	CF025 ROOM 217	F02	Copper	130
Lead	46	DW026 ACROSS FROM ROOM 106A	P1	Copper	230
Lead	41	DW026 ACROSS FROM ROOM 106A	P2	Copper	650
Lead	11	DW026 ACROSS FROM ROOM 106A	F01	Copper	110
Lead	6	DW026 ACROSS FROM ROOM 106A	F02	Copper	70
Lead	29	DW027 ACROSS FROM ROOM 106A	P1	Copper	120
Lead	11	DW027 ACROSS FROM ROOM 106A	P2	Copper	80
Lead	10	DW027 ACROSS FROM ROOM 106A	F01	Copper	110
Lead	12	DW027 ACROSS FROM ROOM 106A	F02	Copper	80
Lead	16	KC028 ROOM 211	P1	Copper	330
Lead	6	KC028 ROOM 211	P2	Copper	230
Lead	7	KC028 ROOM 211	F01	Copper	170
Lead	3	KC028 ROOM 211	F02	Copper	80
Lead	521	DW029 ACROSS FROM ROOM 220	P1	Copper	2,810
Lead	61	DW029 ACROSS FROM ROOM 220	P2	Copper	490
Lead	27	DW029 ACROSS FROM ROOM 220	F01	Copper	380
Lead	31	DW029 ACROSS FROM ROOM 220	F02	Copper	400
Lead	226	DW030 ACROSS FROM ROOM 220	P1	Copper	1,340
Lead	28	DW030 ACROSS FROM ROOM 220	P2	Copper	330
Lead	38	DW030 ACROSS FROM ROOM 220	F01	Copper	400
Lead	25	DW030 ACROSS FROM ROOM 220	F02	Copper	280
Lead	217	DW031 ACROSS FROM ROOM 220	P1	Copper	1,280
Lead	20	DW031 ACROSS FROM ROOM 220	P2	Copper	190
Lead	15	DW031 ACROSS FROM ROOM 220	F01	Copper	180
Lead	12	DW031 ACROSS FROM ROOM 220	F02	Copper	150
Lead	478	DW032 ACROSS FROM ROOM 207	P1	Copper	1,960
Lead	85	DW032 ACROSS FROM ROOM 207	P2	Copper	690
Lead	34	DW032 ACROSS FROM ROOM 207	F01	Copper	290
Lead	28	DW032 ACROSS FROM ROOM 207	F02	Copper	310
Lead	301	DW033 ACROSS FROM ROOM 207	P1	Copper	1,750
Lead	13	DW033 ACROSS FROM ROOM 207	P2	Copper	110
Lead	16	DW033 ACROSS FROM ROOM 207	F01	Copper	180
Lead	12	DW033 ACROSS FROM ROOM 207	F02	Copper	160
Lead	180	DW034 ACROSS FROM ROOM 207	P1	Copper	1,290
Lead	10	DW034 ACROSS FROM ROOM 207	P2	Copper	90
Lead	12	DW034 ACROSS FROM ROOM 207	F01	Copper	150
Lead	14	DW034 ACROSS FROM ROOM 207	F02	Copper	180
Lead	13	CF035 ROOM 207	P1	Copper	280
Lead	121	CF035 ROOM 207	P2	Copper	690
Lead	4	CF035 ROOM 207	F01	Copper	250
Lead	22	CF035 ROOM 207	F02	Copper	270
Lead	44	CF036 ROOM 214	P1	Copper	390

Non-detected (ND) means; for lead the amount in water is less than 1 ppb and for copper the amount in water is less than 50 ppb.

Northwestern High School

December 30, 2015

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	163	CF036 ROOM 214	P2	Copper	1,000
Lead	16	CF036 ROOM 214	F01	Copper	410
Lead	3	CF036 ROOM 214	F02	Copper	50
Lead	3	KC037 ROOM 411	P1	Copper	120
Lead	2	KC037 ROOM 411	P2	Copper	100
Lead	ND	KC037 ROOM 411	F01	Copper	ND
Lead	ND	KC037 ROOM 411	F02	Copper	ND
Lead	7	KC038 MAIN OFFICE	P1	Copper	130
Lead	3	KC038 MAIN OFFICE	P2	Copper	130
Lead	1	KC038 MAIN OFFICE	F01	Copper	400
Lead	ND	KC038 MAIN OFFICE	F02	Copper	60
Lead	6	KC039 COMMUNITY ROOM	P1	Copper	270
Lead	5	KC039 COMMUNITY ROOM	P2	Copper	410
Lead	1	KC039 COMMUNITY ROOM	F01	Copper	410
Lead	ND	KC039 COMMUNITY ROOM	F02	Copper	100
Lead	10	DW041 CAFETERIA	P1	Copper	360
Lead	13	DW041 CAFETERIA	P2	Copper	600
Lead	4	DW041 CAFETERIA	F01	Copper	670
Lead	17	DW041 CAFETERIA	F02	Copper	770
Lead	126	DW043 POOL	P1	Copper	340
Lead	25	DW043 POOL	P2	Copper	170
Lead	4	DW043 POOL	F01	Copper	ND
Lead	1	DW043 POOL	F02	Copper	ND
Lead	19	DW046 ROOM 504	P1	Copper	640
Lead	2	DW046 ROOM 504	P2	Copper	710
Lead	2	DW046 ROOM 504	F01	Copper	850
Lead	11	DW046 ROOM 504	F02	Copper	760
Lead	27	DW047 ROOM 506	P1	Copper	570
Lead	5	DW047 ROOM 506	P2	Copper	540
Lead	2	DW047 ROOM 506	F01	Copper	730
Lead	3	DW047 ROOM 506	F02	Copper	800
Lead	3	CF013 ROOM 310	CA1	Copper	50
Lead	2	CF013 ROOM 310	CA2	Copper	ND
Lead	1	CF013 ROOM 310	CA3	Copper	ND
Lead	1	CF013 ROOM 310	CA4	Copper	ND
Lead	2	CF013 ROOM 310	CA5	Copper	ND
Lead	ND	CF013 ROOM 310	CA6	Copper	ND
Lead	ND	CF013 ROOM 310	CA7	Copper	ND
Lead	ND	CF013 ROOM 310	CA8	Copper	ND
Lead	ND	CF013 ROOM 310	CA9	Copper	ND
Lead	ND	CF013 ROOM 310	CA10	Copper	ND
Lead	2	CF023 ROOM 414	CB1	Copper	310

Non-detected (ND) means; for lead the amount in water is less than 1 ppb and for copper the amount in water is less than 50 ppb.

Northwestern High School

December 30, 2015

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	2	CF023 ROOM 414	CB2	Copper	400
Lead	2	CF023 ROOM 414	CB3	Copper	330
Lead	2	CF023 ROOM 414	CB4	Copper	230
Lead	2	CF023 ROOM 414	CB5	Copper	210
Lead	2	CF023 ROOM 414	CB6	Copper	210
Lead	2	CF023 ROOM 414	CB7	Copper	210
Lead	2	CF023 ROOM 414	CB8	Copper	210
Lead	2	CF023 ROOM 414	CB9	Copper	210
Lead	2	CF023 ROOM 414	CB10	Copper	210
Lead	21	CF036 ROOM 214	CC1	Copper	140
Lead	19	CF036 ROOM 214	CC2	Copper	170
Lead	5	CF036 ROOM 214	CC3	Copper	180
Lead	4	CF036 ROOM 214	CC4	Copper	140
Lead	2	CF036 ROOM 214	CC5	Copper	80
Lead	2	CF036 ROOM 214	CC6	Copper	110
Lead	3	CF036 ROOM 214	CC7	Copper	70
Lead	2	CF036 ROOM 214	CC8	Copper	ND
Lead	2	CF036 ROOM 214	CC9	Copper	ND
Lead	2	CF036 ROOM 214	CC10	Copper	ND
Lead	ND	KC039 COMMUNITY ROOM	CD1	Copper	170
Lead	ND	KC039 COMMUNITY ROOM	CD2	Copper	130
Lead	ND	KC039 COMMUNITY ROOM	CD3	Copper	120
Lead	ND	KC039 COMMUNITY ROOM	CD4	Copper	100
Lead	ND	KC039 COMMUNITY ROOM	CD5	Copper	80
Lead	ND	KC039 COMMUNITY ROOM	CD6	Copper	70
Lead	ND	KC039 COMMUNITY ROOM	CD7	Copper	60
Lead	ND	KC039 COMMUNITY ROOM	CD8	Copper	60
Lead	ND	KC039 COMMUNITY ROOM	CD9	Copper	50
Lead	ND	KC039 COMMUNITY ROOM	CD10	Copper	50
Lead	4	BF052 MEN'S DRESSING ROOM	CE1	Copper	830
Lead	1	BF052 MEN'S DRESSING ROOM	CE2	Copper	750
Lead	ND	BF052 MEN'S DRESSING ROOM	CE3	Copper	650
Lead	ND	BF052 MEN'S DRESSING ROOM	CE4	Copper	640
Lead	ND	BF052 MEN'S DRESSING ROOM	CE5	Copper	640
Lead	1	BF052 MEN'S DRESSING ROOM	CE6	Copper	670
Lead	1	BF052 MEN'S DRESSING ROOM	CE7	Copper	640
Lead	ND	BF052 MEN'S DRESSING ROOM	CE8	Copper	640
Lead	ND	BF052 MEN'S DRESSING ROOM	CE9	Copper	630
Lead	ND	BF052 MEN'S DRESSING ROOM	CE10	Copper	640

Non-detected (ND) means; for lead the amount in water is less than 1 ppb and for copper the amount in water is less than 50 ppb.

Northwestern High School

October 1, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	3	KC001 CUSTODIAN BREAK ROOM	P1	Copper	70
Lead	564	DW002 ROOM 312	P1	Copper	760
Lead	3	NS003 NURSE STATION BY CLINIC	P1	Copper	870
Lead	3	NS004 ROOM 1 WELLNESS CLINIC	P1	Copper	460
Lead	2	NS005 ROOM 2 WELLNESS CLINIC	P1	Copper	490
Lead	12	CF006 CHILD TODDLER CARE	P1	Copper	3,940
Lead	9	CF007 INFANT ROOM	P1	Copper	1,800
Lead	14	DW008 NEXT TO ROOM 309 E HALL	P1	Copper	320
Lead	14	DW009 NEXT TO ROOM 309 E HALL	P1	Copper	210
Lead	29	DW010 NEXT TO ROOM 309 E HALL	P1	Copper	240
Lead	17	DW011 ROOM 310	P1	Copper	110
Lead	10	DW012 ROOM 310	P1	Copper	120
Lead	363	CF013 ROOM 310	P1	Copper	280
Lead	24	CF014 427 WORK ROOM	P1	Copper	260
Lead	7	KC015 ROOM 415B	P1	Copper	320
Lead	13	KC015A ROOM 415B	P1	Copper	360
Lead	6	KC015B ROOM 415B	P1	Copper	400
Lead	36	KC015C ROOM 415B	P1	Copper	250
Lead	4	CF016 ROOM 415A	P1	Copper	210
Lead	6	DW017 HALL ACROSS FROM ROOM 420	P1	Copper	530
Lead	13	DW018 HALL ACROSS FROM ROOM 420	P1	Copper	600
Lead	46	DW019 HALL ACROSS FROM ROOM 420	P1	Copper	630
Lead	8	DW020 HALL ACROSS FROM ROOM 407	P1	Copper	530
Lead	15	DW021 HALL ACROSS FROM ROOM 407	P1	Copper	390
Lead	16	DW022 HALL ACROSS FROM ROOM 407	P1	Copper	520
Lead	2	CF023 ROOM 414	P1	Copper	260
Lead	178	CF024 ROOM 216A	P1	Copper	670
Lead	26	CF025 ROOM 217	P1	Copper	280
Lead	23	DW026 ACROSS FROM ROOM 106A	P1	Copper	210
Lead	49	DW027 ACROSS FROM ROOM 106A	P1	Copper	230
Lead	1	KC028 ROOM 211	P1	Copper	150
Lead	29	DW029 ACROSS FROM ROOM 220	P1	Copper	270
Lead	13	DW030 ACROSS FROM ROOM 220	P1	Copper	230
Lead	30	DW032 ACROSS FROM ROOM 207	P1	Copper	250
Lead	17	DW033 ACROSS FROM ROOM 207	P1	Copper	280
Lead	15	DW034 ACROSS FROM ROOM 207	P1	Copper	290
Lead	6	CF035 ROOM 207	P1	Copper	190
Lead	30	CF036 ROOM 214	P1	Copper	420
Lead	39	DW037A HALL BETWEEN RESTROOMS	P1	Copper	320
Lead	24	DW037B HALL BETWEEN RESTROOMS	P1	Copper	220
Lead	13	DW040 COMMUNITY ROOM	P1	Copper	450
Lead	11	DW041 CAFETERIA	P1	Copper	640

Non-detected (ND) means; for lead the amount in water is less than 1 pbb for copper and the amount in water is less than 50 pbb.

Northwestern High School

October 1, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	5	DW042 CAFETERIA	P1	Copper	620
Lead	ND	DW043 POOL	P1	Copper	110
Lead	101	DW046 ROOM 504	P1	Copper	3,320
Lead	898	DW047 ROOM 506	P1	Copper	39,120
Lead	14	DW048 HALL NEXT TO GYM	P1	Copper	270
Lead	5	DW049 HALL NEXT TO GYM	P1	Copper	240
Lead	7	DW050 GYM	P1	Copper	300
Lead	2	DW051 GYM	P1	Copper	230
Lead	42	CF059 ROOM 206	P1	Copper	500
Lead	9	CF060 ROOM 304	P1	Copper	150
Lead	7	CF061 ROOM 305	P1	Copper	100
Lead	2	CF062 ROOM 308	P1	Copper	100
Lead	14	CF063 ROOM 307	P1	Copper	210
Lead	17	CF064 ROOM 313	P1	Copper	130
Lead	24	CF065 ROOM 315	P1	Copper	120
Lead	3	CF066 ROOM 213	P1	Copper	290
Lead	5	CF071 ROOM 413A	P1	Copper	190
Lead	3	CF072 ROOM 413A	P1	Copper	210
Lead	4	CF073 ROOM 413A	P1	Copper	260
Lead	5	CF074 ROOM 413A	P1	Copper	170
Lead	14	CF075 ROOM 413A	P1	Copper	180
Lead	5	CF076 ROOM 413A	P1	Copper	250
Lead	5	CF013 ROOM 310	A1	Copper	70
Lead	2	CF013 ROOM 310	A2	Copper	ND
Lead	3	CF013 ROOM 310	A3	Copper	ND
Lead	3	CF013 ROOM 310	A4	Copper	ND
Lead	3	CF013 ROOM 310	A5	Copper	ND
Lead	1	CF013 ROOM 310	A6	Copper	ND
Lead	ND	CF013 ROOM 310	A7	Copper	ND
Lead	ND	CF013 ROOM 310	A8	Copper	ND
Lead	ND	CF013 ROOM 310	A9	Copper	ND
Lead	ND	CF013 ROOM 310	A10	Copper	ND
Lead	ND	CF023 ROOM 414	B1	Copper	450
Lead	ND	CF023 ROOM 414	B2	Copper	470
Lead	ND	CF023 ROOM 414	B3	Copper	180
Lead	ND	CF023 ROOM 414	B4	Copper	120
Lead	1	CF023 ROOM 414	B5	Copper	110
Lead	1	CF023 ROOM 414	B6	Copper	100
Lead	1	CF023 ROOM 414	B7	Copper	90
Lead	ND	CF023 ROOM 414	B8	Copper	90
Lead	ND	CF023 ROOM 414	B9	Copper	90
Lead	ND	CF023 ROOM 414	B10	Copper	90

Non-detected (ND) means; for lead the amount in water is less than 1 ppb for copper and the amount in water is less than 50 ppb.

Northwestern High School

October 1, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	66	CF036 ROOM 214	C1	Copper	460
Lead	24	CF036 ROOM 214	C2	Copper	400
Lead	10	CF036 ROOM 214	C3	Copper	320
Lead	11	CF036 ROOM 214	C4	Copper	270
Lead	5	CF036 ROOM 214	C5	Copper	200
Lead	3	CF036 ROOM 214	C6	Copper	130
Lead	2	CF036 ROOM 214	C7	Copper	70
Lead	2	CF036 ROOM 214	C8	Copper	ND
Lead	1	CF036 ROOM 214	C9	Copper	ND
Lead	ND	CF036 ROOM 214	C10	Copper	ND
Lead	11	BF052 STAGE MEN'S ROOM	E1	Copper	810
Lead	1	BF052 STAGE MEN'S ROOM	E2	Copper	400
Lead	ND	BF052 STAGE MEN'S ROOM	E3	Copper	380
Lead	1	BF052 STAGE MEN'S ROOM	E4	Copper	380
Lead	1	BF052 STAGE MEN'S ROOM	E5	Copper	370
Lead	ND	BF052 STAGE MEN'S ROOM	E6	Copper	360
Lead	ND	BF052 STAGE MEN'S ROOM	E7	Copper	360
Lead	ND	BF052 STAGE MEN'S ROOM	E8	Copper	340
Lead	ND	BF052 STAGE MEN'S ROOM	E9	Copper	330
Lead	ND	BF052 STAGE MEN'S ROOM	E10	Copper	330

Non-detected (ND) means; for lead the amount in water is less than 1 ppb for copper and the amount in water is less than 50 ppb.

Northwestern High School

December 10, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	KC001 CUSTODIAN BREAK ROOM	P1	Copper	ND
Lead	ND	DW002 ROOM 312	P1	Copper	ND
Lead	ND	NS003 NURSE STATION BY CLINIC	P1	Copper	ND
Lead	ND	NS004 ROOM 1 WELLNESS CLINIC	P1	Copper	ND
Lead	ND	NS005 ROOM 2 WELLNESS CLINIC	P1	Copper	ND
Lead	ND	CF007 INFANT ROOM	P1	Copper	ND
Lead	ND	DW008 NEXT TO ROOM 309 E HALL	P1	Copper	490
Lead	ND	DW010 NEXT TO ROOM 309 E HALL	P1	Copper	440
Lead	ND	DW011 ROOM 310	P1	Copper	ND
Lead	ND	KC015 ROOM 415B	P1	Copper	ND
Lead	ND	KC015A ROOM 415B	P1	Copper	ND
Lead	ND	KC015B ROOM 415B	P1	Copper	ND
Lead	ND	KC015C ROOM 415B	P1	Copper	ND
Lead	ND	DW017 ACROSS FROM ROOM 420	P1	Copper	350
Lead	ND	DW018 ACROSS FROM ROOM 420	P1	Copper	600
Lead	ND	DW020 ACROSS FROM ROOM 407	P1	Copper	470
Lead	ND	DW022 ACROSS FROM ROOM 407	P1	Copper	440
Lead	ND	DW026 ACROSS FROM ROOM 106A	P1	Copper	90
Lead	ND	DW027 ACROSS FROM ROOM 106A	P1	Copper	110
Lead	ND	KC028 ROOM 211	P1	Copper	ND
Lead	ND	DW029 ACROSS FROM ROOM 220	P1	Copper	550
Lead	ND	DW031 ACROSS FROM ROOM 220	P1	Copper	720
Lead	ND	DW032 ACROSS FROM ROOM 207	P1	Copper	330
Lead	ND	DW034 ACROSS FROM ROOM 207	P1	Copper	590
Lead	ND	CF035 ROOM 207	P1	Copper	ND
Lead	ND	DW037A HALL BETWEEN RESTROOMS	P1	Copper	110
Lead	ND	DW037B HALL BETWEEN RESTROOMS	P1	Copper	140
Lead	ND	KC039 COMMUNITY ROOM	P1	Copper	ND
Lead	ND	DW040 COMMUNITY LOCKER ROOM	P1	Copper	890
Lead	ND	DW041 CAFETERIA	P1	Copper	80
Lead	ND	DW041A CAFETERIA	P1	Copper	80
Lead	ND	DW044 POOL	P1	Copper	140
Lead	ND	DW045 VARSITY LOCKER ROOM	P1	Copper	770
Lead	ND	DW045A VARSITY LOCKER ROOM	P1	Copper	390
Lead	ND	DW046 ROOM 504/MUSIC	P1	Copper	ND
Lead	ND	DW047 ROOM 506	P1	Copper	130
Lead	ND	DW048 HALL NEXT TO GYM (LOW)	P1	Copper	50
Lead	ND	DW049 HALL NEXT TO GYM (HIGH)	P1	Copper	60
Lead	ND	DW050 GYM	P1	Copper	ND
Lead	ND	DW051 GYM	P1	Copper	ND
Lead	ND	CF059 ROOM 206	P1	Copper	ND
Lead	ND	CF060 ROOM 304	P1	Copper	ND

Non-detected (ND) means; for lead the amount in water is less than

Page 1 of 2 1 ppb and for copper the amount in water is less than 50 ppb.

Northwestern High School

December 10, 2016

Lead	Result (ppb)	Sample Description	Site Code	Copper	Result (ppb)
Lead	ND	CF061 ROOM 305	P1	Copper	ND
Lead	ND	CF062 ROOM 308	P1	Copper	ND
Lead	ND	CF063 ROOM 307	P1	Copper	ND
Lead	ND	CF064 ROOM 313	P1	Copper	ND
Lead	ND	CF065 ROOM 315	P1	Copper	ND
Lead	ND	CF071 ROOM413A	P1	Copper	ND
Lead	ND	CF072 ROOM 413A	P1	Copper	ND
Lead	ND	CF073 ROOM 413A	P1	Copper	ND
Lead	ND	CF074 ROOM 413A	P1	Copper	ND
Lead	ND	CF075 ROOM 413A	P1	Copper	ND
Lead	ND	CF076 ROOM 413A	P1	Copper	ND