

Results of Water Quality Testing
for
Columbia school

Updated January 25th, 2019

General Information:

Plumbing piping materials: mainly galvanized steel

Remediation plan:

This remediation plan is based on a Water Quality policy approved by the School Board. The policy includes standards for the presence of lead, cadmium, copper, iron and other substances in drinking water.

Sinks (S in the report) are not considered drinking water sources. We recognize that there is the potential for students to want to drink from classroom hand-washing sinks, so we test all of those. Where a student's choice to drink from a sink could be a problem, we post a reminder sign, as we do at all restroom sinks.

Status:

Policy Criteria:

This school has two sources that do not meet the policy criteria. Signs will be posted at room 14 (#23) and room 15 (#20)

Follow-up monitoring: Will be performed in 2020-2021.

Service: The school will be flushed after any breaks longer than five days.

Water Quality Testing Results:

Legend

Symbol	Definition
SE	service entry (main)
B	bubbler
S	sink (faucet)
B/S	sink/bubbler combination
S/B	sink/bubbler combination
ppb	parts per billion
ppm	parts per million
NA	not applicable
None	no action required
Unk	unknown status or action
Sample	sample needs to be taken
Re-test	fixture needs to be resampled
Conf	resample to confirm measurement
No flush	not flushed before sampling
Sink	sampled faucet of S/B combo
Used	recently used; no 1st draw sample possible
PS	post sign
Disable(d)	fixture disabled in response to water quality testing
IF	install filter
RB	replace bubbler
RB/IF	replace bubbler and/or install filter
RF	replace faucet
RF/IF	replace faucet and/or install filter
BW	disable fixture and provide bottled water until remediated
Leaks	leaking fixture
NW	not working properly (sample S when B of S/B NW)
OS	out of service - disabled until fixed
RS	return to service - now passes testing
Rem	Removed from system - no longer exists

Table 1. Summary of Results

CURRENT STATUS											
FIXTURE INFORMATION			LEAD		CADMIUM		COPPER		IRON		OK?
Fixture ID	Type	Location	Pass/Fail	Status	Pass/Fail	Status	Pass/Fail	Status	Pass/Fail	Status	Yes/No/Status
03	B	hallway near room 7	P	None	P	None	P	None	P	None	Yes
04	B	girls lav - south end, left	P	None	P	None	P	None	P	None	Yes
05	B	girls lav- south end,middle	P	None	P	None	P	None	P	None	Yes
06	B	girls lav- south end, right	P	None	P	None	P	None	P	None	Yes
07	B	girls lav - north end, left	P	None	P	None	P	None	P	None	Yes
08	B	girls lav - north end, middle	P	None	P	None	P	None	P	None	Yes
09	B	girls lav - north end, right	P	None	P	None	P	None	P	None	Yes
10	B	boys lav - left	P	None	P	None	P	None	P	None	Yes
11	B	boys lav	P	None	P	None	P	None	P	None	Yes
12	B	boys lav	P	None	P	None	P	None	P	None	Yes
13	B	boys lav - right	P	None	P	None	P	None	P	None	Yes
14	B	hallway near room 3	P	None	P	None	P	None	P	None	Yes
15	S	nurses office	P	None	P	None	P	None	P	None	Yes
16	S	teacher's lounge	P	None	P	None	P	None	P	None	Yes
17	S	kitchen - north faucet	P	None	P	None	P	None	P	None	Yes
18	S/B	room 4 (old room 1)	P	None	P	None	P	None	P	None	Yes
19	S	room 7 (old room 11)	P	None	P	None	P	None	P	None	Yes
20	S	room 15 (old room 5)	P	None	F	PS	P	None	P	None	PS
21	S	Kitchen sink, center faucet	P	None	P	None	P	None	P	None	Yes
22	S	Kitchen sink, south faucet	P	None	P	None	P	None	P	None	Yes
23	S	room 14	F	PS	F	PS	P	None	P	None	PS
24	S	nurse office	P	None	P	None	P	None	P	None	Yes
30	S	room 4, exam room #1	P	None	P	None	P	None			Yes
31	S	room 4, exam room #2	P	None	P	None	P	None			Yes

Table 2. Lead Test Results

Test Results (Lead/Pb, ppb)													
FIXTURE INFORMATION			9/4/2013			8/29/2014			9/27/2018			Summary Status	
Fixture ID	Type	Location	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
03	B	hallway near room 7	<1	<1	P				<1	<1	P	P	None
04	B	girls lav - south end, left	1	<1	P	1	<1	P				P	None
05	B	girls lav- south end,middle	<1	<1	P	<1	<1	P				P	None
06	B	girls lav- south end, right	<1	<1	P	<1	<1	P				P	None
07	B	girls lav - north end, left	1	<1	P	1	<1	P				P	None
08	B	girls lav - north end, middle	<1	<1	P	<1	<1	P				P	None
09	B	girls lav - north end, right	<1	<1	P	<1	<1	P				P	None
10	B	boys lav - left	2	<1	P	2	<1	P				P	None
11	B	boys lav	1	<1	P	<1	<1	P				P	None
12	B	boys lav	<1	<1	P	<1	<1	P				P	None
13	B	boys lav - right	<1	<1	P	1	<1	P				P	None
14	B	hallway near room 3	1	<1	P	1	<1	P				P	None
15	S	nurses office	3	<1	P	2	<1	P	<1	<1	P	P	None
16	S	teacher's lounge	7	1	P	1	3	P	4	2	P	P	None
17	S	kitchen - north faucet	4	5	P				2	<1	P	P	None
18	S/B	room 4 (old room 1)	6	<1	P				<1	<1	P	P	None
19	S	room 7 (old room 11)	3	2	P	4	<1	P				P	None
20	S	room 15 (old room 5)	16	5		14	17		5	6	P	P	None
21	S	Kitchen sink, center faucet	4	1	P	2	<1	P	1	<1	P	P	None
22	S	Kitchen sink, south faucet	10	<1	P	2	<1	P	<1	3	P	P	None
23	S	room 14	10	8	P	10	25					F	PS
24	S	nurse office	8	2	P	4	3	P				P	None
30	S	room 4, exam room #1				5	<1	P	<1	<1	P	P	None
31	S	room 4, exam room #2				1	<1	P	<1	<1	P	P	None

Table 3. Cadmium Test Results

Test Results (Cadmium/Cd, ppb)													
FIXTURE INFORMATION			9/4/2013			8/29/2014			9/27/2018			Summary Status	
Fixture ID	Type	Location	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
03	B	hallway near room 7	<1	<1	P				<1	<1	P	P	None
04	B	girls lav - south end, left	<1	<1	P	<1	<1	P				P	None
05	B	girls lav- south end,middle	<1	<1	P	<1	<1	P				P	None
06	B	girls lav- south end, right	<1	<1	P	<1	<1	P				P	None
07	B	girls lav - north end, left	<1	<1	P	<1	<1	P				P	None
08	B	girls lav - north end, middle	<1	<1	P	<1	<1	P				P	None
09	B	girls lav - north end, right	<1	<1	P	<1	<1	P				P	None
10	B	boys lav - left	<1	<1	P	<1	<1	P				P	None
11	B	boys lav	<1	<1	P	<1	<1	P				P	None
12	B	boys lav	<1	<1	P	<1	<1	P				P	None
13	B	boys lav - right	<1	<1	P	<1	<1	P				P	None
14	B	hallway near room 3	<1	<1	P	<1	<1	P				P	None
15	S	nurses office	<1	<1	P	<1	<1	P	<1	<1	P	P	None
16	S	teacher's lounge	<1	<1	P	<1	<1	P	<1	<1	P	P	None
17	S	kitchen - north faucet	<1	<1	P				<1	<1	P	P	None
18	S/B	room 4 (old room 1)	<1	<1	P				<1	<1	P	P	None
19	S	room 7 (old room 11)	<1	<1	P	<1	<1	P				P	None
20	S	room 15 (old room 5)	9	11		7	6		6	5		F	PS
21	S	Kitchen sink, center faucet	1	<1	P	1	<1	P	1	<1	P	P	None
22	S	Kitchen sink, south faucet	2	<1	P	1	<1	P	<1	<1	P	P	None
23	S	room 14	17	25		16	33					F	PS
24	S	nurse office	<1	<1	P	<1	<1	P				P	None
30	S	room 4, exam room #1				<1	<1	P	<1	<1	P	P	None
31	S	room 4, exam room #2				<1	<1	P	<1	<1	P	P	None

Table 4. Copper Test Results

Test Results (Copper/Cu, ppm)													
FIXTURE INFORMATION			9/4/2013			8/29/2014			9/27/2018			Summary Status	
Fixture ID	Type	Location	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
03	B	hallway near room 7	0.006	0.002	P				<0.002	<0.002	P	P	None
04	B	girls lav - south end, left	0.01	<0.002	P	0.019	0.004	P				P	None
05	B	girls lav- south end,middle	0.004	0.007	P	0.012	0.009	P				P	None
06	B	girls lav- south end, right	0.003	0.009	P	0.008	0.012	P				P	None
07	B	girls lav - north end, left	0.022	0.003	P	0.019	0.005	P				P	None
08	B	girls lav - north end, middle	0.008	0.008	P	0.015	0.007	P				P	None
09	B	girls lav - north end, right	0.009	0.012	P	0.012	0.011	P				P	None
10	B	boys lav - left	0.007	0.004	P	0.013	0.007	P				P	None
11	B	boys lav	0.005	0.006	P	0.006	0.013	P				P	None
12	B	boys lav	0.006	0.007	P	0.008	0.016	P				P	None
13	B	boys lav - right	0.006	0.007	P	0.01	0.016	P				P	None
14	B	hallway near room 3	0.003	<0.002	P	0.004	<0.002	P				P	None
15	S	nurses office	0.188	0.276	P	0.244	0.094	P	0.237	0.098	P	P	None
16	S	teacher's lounge	0.032	0.062	P	0.049	0.027	P	0.016	0.021	P	P	None
17	S	kitchen - north faucet	0.065	0.055	P				0.049	0.047	P	P	None
18	S/B	room 4 (old room 1)	0.046	0.016	P				0.213	0.153	P	P	None
19	S	room 7 (old room 11)	0.178	0.036	P	0.422	0.103	P				P	None
20	S	room 15 (old room 5)	0.185	0.034	P	0.137	0.018	P	0.087	0.02	P	P	None
21	S	Kitchen sink, center faucet	0.028	0.083	P	0.017	0.086	P	0.037	0.046	P	P	None
22	S	Kitchen sink, south faucet	0.083	0.084	P	0.022	0.084	P	0.045	0.114	P	P	None
23	S	room 14	0.021	0.016	P	0.035	0.024	P				P	None
24	S	nurse office	0.279	0.199	P	0.423	0.334	P				P	None
30	S	room 4, exam room #1				0.219	0.294	P	0.197	0.217	P	P	None
31	S	room 4, exam room #2				0.266	0.28	P	0.186	0.22	P	P	None

Table 5. Iron Test Results

Test Results (Iron/Fe, ppm)										
FIXTURE INFORMATION			9/4/2013		8/29/2014		9/27/2018		Summary Status	
Fixture ID	Type	Location	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	Pass/Fail	Status
03	B	hallway near room 7	<0.05	P					P	None
04	B	girls lav - south end, left			<0.05	P			P	None
05	B	girls lav- south end,middle							P	None
06	B	girls lav- south end, right							P	None
07	B	girls lav - north end, left							P	None
08	B	girls lav - north end, middle							P	None
09	B	girls lav - north end, right	<0.05	P					P	None
10	B	boys lav - left			<0.05	P			P	None
11	B	boys lav							P	None
12	B	boys lav	<0.05	P					P	None
13	B	boys lav - right			<0.05	P			P	None
14	B	hallway near room 3							P	None
15	S	nurses office							P	None
16	S	teacher's lounge	0.096	P					P	None
17	S	kitchen - north faucet							P	None
18	S/B	room 4 (old room 1)	0.084	P			<0.05	P	P	None
19	S	room 7 (old room 11)			0.054	P			P	None
20	S	room 15 (old room 5)	0.099	P					P	None
21	S	Kitchen sink, center faucet			<0.05	P			P	None
22	S	Kitchen sink, south faucet					<0.05	P	P	None
23	S	room 14	<0.05	P					P	None
24	S	nurse office			<0.05	P			P	None
30	S	room 4, exam room #1								
31	S	room 4, exam room #2								

Table 6. Service Entry Test Results

Test Results (Service Entry/SE, Units as Shown)						
SOURCE INFORMATION			Most Recent Sampling			
Fixture ID	Type	Location	Item	Sampled	Max Value	Pass/Fail
00	SE	crawl space near boiler room	Arsenic	29-Aug-14	2 ppb	P
00	SE	crawl space near boiler room	Cadmium	29-Aug-14	1 ppb	P
00	SE	crawl space near boiler room	Copper	29-Aug-14	0.075 ppm	P
00	SE	crawl space near boiler room	E coli	14-Apr-04	<1 Colonies	P
00	SE	crawl space near boiler room	Iron	29-Aug-14	<0.05 ppm	P
00	SE	crawl space near boiler room	Lead	29-Aug-14	1 ppb	P
00	SE	crawl space near boiler room	Total Coliforms	29-Aug-14	<1 Colonies	P

“<” means: less than the value shown (below analytical detection limits).

“n/a” means: not applicable.

Table 7. Bacteriological Test Results

Bacteriological testing of selected samples indicated no (zero) coliform bacteria.