

**Seattle Public Schools
Drinking Water Quality Program**

**Results of Water Quality Testing
for
JOHN MARSHALL ALTERNATIVE SCHOOL**

Updated July 14, 2020

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:

All sources meet the policy criteria.

Follow-up monitoring: Will be performed in school year 2022-2023.

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
BDSS	Bubbler disabled, sign on sink
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

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
01	B	first floor hallway (near 103)	P	None	P	None	P	None	P	None	Yes
02	B	first floor hallway (near 103)	P	None	P	None	P	None	P	None	Yes
03	B	room 113 - old locker room	P	None	P	None	P	None	P	None	Yes
07	B	first floor hallway	P	None	P	None	P	None	P	None	Yes
08	B	first floor hallway	P	None	P	None	P	None	P	None	Yes
09	B	first floor hallway	P	None	P	None	P	None	P	None	Yes
10	B	first floor hallway	P	None	P	None	P	None	P	None	Yes
11	B	second floor hall	P	None	P	None	P	None	P	None	Yes
12	B	second floor hall	P	None	P	None	P	None	P	None	Yes
13	B	third floor hall	P	None	P	None	P	None	P	None	Yes
14	B	third floor hall	P	None	P	None	P	None	P	None	Yes
19	S	office area sink	P	None	P	None	P	None	P	None	Yes
20	S	kitchen sink	P	None	P	None	P	None	P	None	Yes
26	S	Kitchen,right	P	None	P	None	P	None	P	None	Yes
27	S	kitchen, sink	P	None	P	None	P	None	P	None	Yes
28	S	Kitchen, L sink	P	None	P	None	P	None	P	None	Yes
29	S	staff lounge	P	None	P	None	P	None	P	None	Yes
30	K	kitchen kettle	P	None	P	None	P	None			Yes
31	S	room 110	P	None	P	None	P	None	P	None	Yes
32	S	room 110	P	None	P	None	P	None			Yes
35	S	room 110	P	None	P	None	P	None			Yes
36	S	room 110	P	None	P	None	P	None			Yes
38	S	room 106	P	None	P	None	P	None	P	None	Yes
42	S	room 102	P	None	P	None	P	None			Yes
45	S	room 306	P	None	P	None	P	None			Yes
48	S	room 122	P	None	P	None	P	None			Yes
49	S	nurse office	P	None	P	None	P	None			Yes

Table 2. Lead Test Results

FIXTURE INFORMATION			3/5/2010			6/18/2010			4/24/2012			11/8/2013			2/28/2014			11/8/2017			6/5/2020			Summary Status	
Fixture ID	Type	Location	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
01	B	first floor hallway (near 103)	4	<1	P				<1	<1	P	1	<1	P				<1	<1	P	<1	<1	P	P	None
02	B	first floor hallway (near 103)	1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
03	B	room 113 - old locker room							<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
07	B	first floor hallway							<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
08	B	first floor hallway	<1	2	P				<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
09	B	first floor hallway	1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
10	B	first floor hallway	<1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
11	B	second floor hall	<1	<1	P				<1	<1	P							<1	<1	P	<1	<1	P	P	None
12	B	second floor hall	3	<1	P				<1	<1	P	1	<1	P				<1	<1	P	<1	<1	P	P	None
13	B	third floor hall							1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
14	B	third floor hall							2	<1	P	4	1	P				<1	<1	P	1	<1	P	P	None
19	S	office area sink	3	<1	P				<1	<1	P	1	<1	P				<1	<1	P	<1	<1	P	P	None
20	S	kitchen sink				20	1		60	2		20	2		2	<1	P	<1	<1	P	<1	<1	P	P	None
26	S	Kitchen,right				6	<1	P	61	8		1	11		8	3	P	<1	<1	P	<1	<1	P	P	None
27	S	kitchen, sink				15	<1		35	3		9	<1	P				<1	<1	P	<1	<1	P	P	None
28	S	Kitchen, L sink				13	1		77	3		1	4	P				<1	<1	P	2	<1	P	P	None
29	S	staff lounge	1	<1	P				<1	<1	P	8	<1	P				<1	<1	P	<1	<1	P	P	None
30	K	kitchen kettle	25	<1					16	<1		23	<1		2	<1	P	<1	<1	P	<1	<1	P	P	None
31	S	room 110	3	<1	P				1	<1	P	120	<1		2	<1	P	<1	<1	P				P	None
32	S	room 110	10	<1	P				3	<1	P	2	<1	P				1	<1	P				P	None
35	S	room 110	11	<1					3	<1	P	3	<1	P				<1	<1	P				P	None
36	S	room 110	11	<1					3	<1	P	5	<1	P				<1	<1	P				P	None
38	S	room 106	6	<1	P				3	<1	P	4	<1	P				<1	<1	P	<1	<1	P	P	None
42	S	room 102							14	2		5	<1	P				<1	<1	P	<1	<1	P	P	None
45	S	room 306							18	<1		<1	<1	P				<1	<1	P	<1	<1	P	P	None
48	S	room 122							8	2	P	1	1	P				<1	<1	P	1	<1	P	P	None
49	S	nurse office																			<1	<1	P	P	None

Table 3. Cadmium Test Results

FIXTURE INFORMATION			3/5/2010			6/18/2010			4/24/2012			11/8/2013			2/28/2014			11/8/2017			6/5/2020			Summary Status	
Fixture ID	Type	Location	1st Draw	Flush 30s	Pass /Fail	1st Draw	Flush 30s	Pass /Fail	1st Draw	Flush 30s	Pass /Fail	1st Draw	Flush 30s	Pass /Fail	1st Draw	Flush 30s	Pass /Fail	1st Draw	Flush 30s	Pass /Fail	1st Draw	Flush 30s	Pass /Fail	Pass/Fail	Status
01	B	first floor hallway (near 103)	<1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
02	B	first floor hallway (near 103)	<1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
03	B	room 113 - old locker room							<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
07	B	first floor hallway							<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
08	B	first floor hallway	<1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
09	B	first floor hallway	<1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
10	B	first floor hallway	<1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
11	B	second floor hall	<1	<1	P				<1	<1	P							<1	<1	P	<1	<1	P	P	None
12	B	second floor hall	<1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
13	B	third floor hall							<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
14	B	third floor hall							<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
19	S	office area sink	<1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
20	S	kitchen sink				<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
26	S	Kitchen,right				<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
27	S	kitchen, sink				<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
28	S	Kitchen, L sink				<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
29	S	staff lounge	<1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
30	K	kitchen kettle	<1	<1	P				<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
31	S	room 110	<1	<1	P				<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
32	S	room 110	<1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P				P	None
35	S	room 110	<1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P				P	None
36	S	room 110	<1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P				P	None
38	S	room 106	<1	<1	P				<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
42	S	room 102							43	1		<1	<1	P				<1	<1	P	<1	<1	P	P	None
45	S	room 306							<1	<1	P	<1	<1	P				<1	<1	P	<1	<1	P	P	None
48	S	room 122							16	2		1	<1	P				<1	<1	P	<1	<1	P	P	None
49	S	nurse office																			<1	<1	P	P	None

Table 4. Copper Test Results

FIXTURE INFORMATION			3/5/2010			6/18/2010			4/24/2012			11/8/2013			2/28/2014			11/8/2017			6/5/2020			Summary Status	
Fixture ID	Type	Location	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	1st Draw	Flush 30s	Pass/Fail	Pass /Fail	Status
01	B	first floor hallway (near 103)	0.423	0.257	P				0.062	0.015	P	0.217	0.02	P				0.061	0.038	P	0.155	0.131	P	P	None
02	B	first floor hallway (near 103)	0.401	0.252	P				0.185	0.033	P	0.245	0.017	P				0.062	0.036	P	0.155	0.089	P	P	None
03	B	room 113 - old locker room							0.129	0.242	P	1.11	0.179	P				0.448	0.215	P	0.474	0.306	P	P	None
07	B	first floor hallway							0.003	<0.002	P	0.004	<0.002	P				0.004	<0.002	P	0.004	<0.002	P	P	None
08	B	first floor hallway	1.18	1.23	P				0.436	0.391	P	0.118	0.069	P				0.163	0.16	P	0.306	0.247	P	P	None
09	B	first floor hallway	0.129	0.06	P				0.094	0.012	P	0.109	0.014	P				0.046	0.018	P	0.122	0.024	P	P	None
10	B	first floor hallway	0.534	0.313	P				0.093	0.026	P	0.106	0.006	P				0.036	0.012	P	0.061	0.021	P	P	None
11	B	second floor hall	0.546	0.34	P				0.326	0.204	P							0.136	0.077	P	0.133	0.092	P	P	None
12	B	second floor hall	0.558	0.193	P				0.207	0.104	P	0.172	0.024	P				0.07	0.047	P	0.118	0.052	P	P	None
13	B	third floor hall							1.03	0.706	P	1.48	0.164		1.99	0.246		0.12	0.094	P	0.188	0.141	P	P	None
14	B	third floor hall							0.304	0.168	P	0.241	0.278	P				0.153	0.092	P	0.321	0.145	P	P	None
19	S	office area sink	0.178	0.055	P				0.116	0.024	P	0.05	0.004	P				0.014	0.007	P	0.066	0.024	P	P	None
20	S	kitchen sink				0.123	0.082	P	0.134	0.089	P	0.176	0.124	P	0.187	0.085	P	0.164	0.128	P	0.21	0.166	P	P	None
26	S	Kitchen,right				0.238	0.154	P	0.139	0.489	P	0.131	0.351	P	0.207	0.232	P	0.135	0.124	P	0.256	0.258	P	P	None
27	S	kitchen, sink				0.152	0.094	P	0.186	0.095	P	0.122	0.133	P				0.241	0.122	P	0.238	0.156	P	P	None
28	S	Kitchen, L sink				0.142	0.16	P	0.187	0.283	P	0.122	0.135	P				0.142	0.062	P	0.244	0.252	P	P	None
29	S	staff lounge	0.727	0.035	P				0.08	0.006	P	0.115	0.007	P				0.158	0.056	P	0.227	0.052	P	P	None
30	K	kitchen kettle	0.404	0.103	P				0.234	0.046	P	0.067	0.011	P	0.154	0.096	P	0.149	0.11	P	0.101	0.168	P	P	None
31	S	room 110	0.639	0.271	P				0.179	0.126	P	0.915	0.052	P	0.141	0.067	P	0.152	0.044	P				P	None
32	S	room 110	0.331	0.159	P				0.207	0.078	P	0.093	0.026	P				0.124	0.038	P				P	None
35	S	room 110	0.518	0.186	P				0.222	0.107	P	0.138	0.041	P				0.15	0.041	P				P	None
36	S	room 110	0.4	0.207	P				0.211	0.221	P	0.203	0.127	P				0.28	0.082	P				P	None
38	S	room 106	0.236	0.285	P				0.134	0.084	P	0.093	0.009	P				0.114	0.074	P	0.2	0.127	P	P	None
42	S	room 102							0.139	0.243	P	0.204	0.072	P				0.222	0.194	P	0.309	0.188	P	P	None
45	S	room 306							12.9	0.182		0.019	0.029	P				0.203	0.169	P	0.342	0.293	P	P	None
48	S	room 122							0.08	0.235	P	0.078	0.075	P				0.136	0.039	P	0.26	0.111	P	P	None
49	S	nurse office																			0.19	0.113	P	P	None

Table 5. Iron Test Results

FIXTURE INFORMATION			3/5/2010		11/8/2013		11/8/2017		6/5/2020		Summary Status	
Fixture ID	Type	Location	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	Flush 2m	Pass/Fail	Pass/Fail	Status
01	B	first floor hallway (near 103)									P	None
02	B	first floor hallway (near 103)			<0.05	P					P	None
03	B	room 113 - old locker room									P	None
07	B	first floor hallway									P	None
08	B	first floor hallway	0.109	P							P	None
09	B	first floor hallway									P	None
10	B	first floor hallway	<0.05	P	<0.05	P	<0.05	P			P	None
11	B	second floor hall	<0.05	P					<0.05	P	P	None
12	B	second floor hall			<0.05	P					P	None
13	B	third floor hall									P	None
14	B	third floor hall			<0.05	P					P	None
19	S	office area sink									P	None
20	S	kitchen sink									P	None
26	S	Kitchen,right					<0.05	P			P	None
27	S	kitchen, sink							<0.05	P	P	None
28	S	Kitchen, L sink			<0.05	P					P	None
29	S	staff lounge									P	None
30	K	kitchen kettle										
31	S	room 110					<0.05	P			P	None
32	S	room 110										
35	S	room 110										
36	S	room 110										
38	S	room 106					<0.05	P	<0.05	P	P	None
42	S	room 102										
45	S	room 306										
48	S	room 122										
49	S	nurse office										

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	boiler room / basment level	Arsenic	05-Jun-20	2 ppb	P
00	SE	boiler room / basment level	Cadmium	05-Jun-20	1 ppb	P
00	SE	boiler room / basment level	Chlorine	07-Apr-04	0.1 ppm	P
00	SE	boiler room / basment level	Copper	05-Jun-20	0.048 ppm	P
00	SE	boiler room / basment level	E coli	07-Apr-04	<1 Colonies	P
00	SE	boiler room / basment level	Iron	05-Jun-20	<0.05 ppm	P
00	SE	boiler room / basment level	Lead	05-Jun-20	1 ppb	P
00	SE	boiler room / basment level	Total Coliforms	08-Nov-13	<1 Colonies	P

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

"n/a" means: not applicable.

Table 7. Bacteriological Test Results

Bacteriological Characteristics

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