

**Seattle Public Schools
Drinking Water Quality Program**

**Results of Water Quality Testing
for
Memorial Stadium**

Updated November 5, 2019

General Information:

Plumbing piping materials: not mainly cooper

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 that 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 or 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
01	B	locker room 1	P	None	P	None	P	None	P	None	Yes
02	S	concession North West C2, left	P	None	P	None	P	None			Yes
03	S	concession North West C2, right	P	None	P	None	P	None			Yes
04	S	concession north East, C1, left	P	None	P	None	P	None			Yes
05	B	concession north East, C1, bubbler	P	None	P	None	P	None	P	None	Yes
06	S	concession South West, C4, left	P	None	P	None	P	None			Yes
07	S	concession South West, C4, right	P	None	P	None	P	None			Yes
08	S	concession South East, C3, left	P	None	P	None	P	None			Yes
09	S	concession South East, C3, right	P	None	P	None	P	None			Yes
11	S	locker room #2	P	None	P	None	P	None			Yes
13	S/B	custodian's restroom	P	None	P	None	P	None	P	None	Yes
14	B	locker room # 3	P	None	P	None	P	None			Yes
15	B	locker room # 4	P	None	P	None	P	None			Yes
16	S/B	dugout (south)	P	None	P	None	P	None	P	None	Yes
17	S/B	dugout (north)	P	None	P	None	P	None	P	None	Yes
50	S	#5 MEN'S BATHROOM	P	None	P	None	P	None			Yes
51	B	#5 MEN'S BATHROOM	P	None	P	None	P	None			Yes
52	S	#9 WOMEN'S BATHROOM	P	None	P	None	P	None			Yes
53	S	#13 WOMEN'S BATHROOM	P	None	P	None	P	None			Yes
54	S	#6 MEN'S BATHROOM	P	None	P	None	P	None			Yes
55	S	#10 WOMEN'S BATHROOM	P	None	P	None	P	None			Yes
56	S	#14 WOMEN'S BATHROOM	P	None	P	None	P	None			Yes

Table 2. Lead Test Results

Test Results (Lead/Pb, ppb)																
FIXTURE INFORMATION			5/12/2004			6/1/2006			5/16/2014			10/24/2019			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	Pass/Fail	Status
01	B	locker room 1	5	<1	P				<1	<1	P	1	<1	P	P	None
02	S	concession North West C2, left	14	31		26	3		8	1	P				P	None
03	S	concession North West C2, right							10	6	P				P	None
04	S	concession north East, C1, left	92	4		16	5		5	8	P				P	None
05	B	concession north East, C1, bubbler	590	8		42	3		<1	<1	P				P	None
06	S	concession South West, C4, left							29	3		1	2	P	P	None
07	S	concession South West, C4, right	7	4	P				7	<1	P				P	None
08	S	concession South East, C3, left	8	4	P				10	1	P				P	None
09	S	concession South East, C3, right	77	3		5	<1	P	4	<1	P				P	None
11	S	locker room #2	18	1		19	3		<1	<1	P				P	None
13	S/B	custodian's restroom	3	2	P				2	1	P				P	None
14	B	locker room # 3	16	5		25	2		17	4		5	2	P	P	None
15	B	locker room # 4	16	2					3	<1	P	2	<1	P	P	None
16	S/B	dugout (south)	6	4	P				1	<1	P	1	<1	P	P	None
17	S/B	dugout (north)	10	3	P				3	<1	P				P	None
50	S	#5 MEN'S BATHROOM											<1	P	P	None
51	B	#5 MEN'S BATHROOM											<1	P	P	None
52	S	#9 WOMEN'S BATHROOM											<1	P	P	None
53	S	#13 WOMEN'S BATHROOM											<1	P	P	None
54	S	#6 MEN'S BATHROOM											<1	P	P	None
55	S	#10 WOMEN'S BATHROOM											2	P	P	None
56	S	#14 WOMEN'S BATHROOM											<1	P	P	None

Table 3. Cadmium Test Results

Test Results (Cadmium/Cd, ppb)																
FIXTURE INFORMATION			5/12/2004			6/1/2006			5/16/2014			10/24/2019			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	Pass/Fail	Status
01	B	locker room 1	<1	<1	P				<1	<1	P	<1	<1	P	P	None
02	S	concession North West C2, left				<1	<1	P	<1	<1	P				P	None
03	S	concession North West C2, right							1	<1	P				P	None
04	S	concession north East, C1, left				<1	<1	P	<1	<1	P				P	None
05	B	concession north East, C1, bubbler				1	<1	P	<1	<1	P				P	None
06	S	concession South West, C4, left							2	<1	P	<1	<1	P	P	None
07	S	concession South West, C4, right				<1	<1	P	<1	<1	P				P	None
08	S	concession South East, C3, left				1	<1	P	<1	<1	P				P	None
09	S	concession South East, C3, right	1	7		<1	<1	P	<1	<1	P				P	None
11	S	locker room #2				2	<1	P	<1	<1	P				P	None
13	S/B	custodian's restroom				<1	<1	P	<1	<1	P				P	None
14	B	locker room # 3				<1	<1	P	1	<1	P	<1	<1	P	P	None
15	B	locker room # 4	2	<1	P				<1	<1	P	<1	<1	P	P	None
16	S/B	dugout (south)	<1	<1	P				<1	<1	P	<1	<1	P	P	None
17	S/B	dugout (north)	<1	<1	P				<1	<1	P				P	None
50	S	#5 MEN'S BATHROOM											<1	P	P	None
51	B	#5 MEN'S BATHROOM											<1	P	P	None
52	S	#9 WOMEN'S BATHROOM											<1	P	P	None
53	S	#13 WOMEN'S BATHROOM											<1	P	P	None
54	S	#6 MEN'S BATHROOM											<1	P	P	None
55	S	#10 WOMEN'S BATHROOM											<1	P	P	None
56	S	#14 WOMEN'S BATHROOM											<1	P	P	None

Table 4. Copper Test Results

Test Results (Copper/Cu, ppm)																
FIXTURE INFORMATION			5/12/2004			6/1/2006			5/16/2014			10/24/2019			Summary Status	
Fixture ID	Type	Location	1st Draw	Flush 2m	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	locker room 1	0.014	0.002	P				0.049	0.002	P	0.011	0.003	P	P	None
02	S	concession North West C2, left				0.173	0.007	P	0.041	0.004	P				P	None
03	S	concession North West C2, right							0.035	0.031	P				P	None
04	S	concession north East, C1, left				0.074	0.013	P	0.026	0.007	P				P	None
05	B	concession north East, C1, bubbler				0.089	0.007	P	<0.002	<0.002	P				P	None
06	S	concession South West, C4, left							0.023	0.01	P	0.028	0.084	P	P	None
07	S	concession South West, C4, right				0.125	0.024	P	0.036	0.012	P				P	None
08	S	concession South East, C3, left				0.145	0.012	P	0.019	0.005	P				P	None
09	S	concession South East, C3, right	0.17	0.007	P				0.013	0.007	P				P	None
11	S	locker room #2				0.012	0.005	P	0.191	0.06	P				P	None
13	S/B	custodian's restroom				0.552	0.055	P	0.216	0.054	P				P	None
14	B	locker room # 3				0.058	0.003	P	0.01	0.003	P	0.004	0.002	P	P	None
15	B	locker room # 4	0.047	0.004	P				0.008	<0.002	P	0.006	0.004	P	P	None
16	S/B	dugout (south)	0.002		P				0.002	<0.002	P	0.003	0.002	P	P	None
17	S/B	dugout (north)	0.003		P				0.012	<0.002	P				P	None
50	S	#5 MEN'S BATHROOM											0.013	P	P	None
51	B	#5 MEN'S BATHROOM											0.011	P	P	None
52	S	#9 WOMEN'S BATHROOM											0.015	P	P	None
53	S	#13 WOMEN'S BATHROOM											0.086	P	P	None
54	S	#6 MEN'S BATHROOM											0.005	P	P	None
55	S	#10 WOMEN'S BATHROOM											0.002	P	P	None
56	S	#14 WOMEN'S BATHROOM											0.002	P	P	None

Table 5. Iron Test Results

FIXTURE INFORMATION			Initial Sampling					Follow-up Sampling 1					Summary Status	
Fixture ID	Type	Location	Sampled	1st Draw	Flush 30s	Flush 2m	Pass/Fail	Sampled	1st Draw	Flush 30s	Flush 2m	Pass/Fail	Pass/Fail	Status
01	B	locker room 1	5/12/2004	0.29		0.11	P	5/16/2014			0.074	P	P	None
02	S	concession North West C2, left												
03	S	concession North West C2, right												
04	S	concession north East, C1, left												
05	S	concession north East, C1, right						5/16/2014			<0.05	P	P	None
06	S	concession South West, C4, left												
07	S	concession South West, C4, right												
08	S	concession South East, C3, left												
09	S	concession South East, C3, right	5/12/2004	1.1		0.2								
11	S	locker room #2												
13	S/B	custodian's restroom						5/16/2014			0.158	P	P	None
14	B	locker room # 3												
15	B	locker room # 4	5/12/2004	2.2		1.3								
16	S/B	dugout (south)	5/12/2004	0.68				5/16/2014			<0.05	P	P	None
17	S/B	dugout (north)	5/12/2004	0.79				5/16/2014			0.08	P	P	None

Table 6. Bacteriological Test Results

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