

Seattle Public Schools
Drinking Water Quality Program

Results of Water Quality Testing
for
Viewlands Elementary School

Updated March 21, 2018

General Information:

Plumbing piping materials: mainly copper

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.

Status:

Policy Criteria: All sources meet the policy criteria.

Follow-up monitoring: Will be performed in school year 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

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	S/B	102 kindergarten room 1	P	None	P	None	P	None	P	None	Yes
02	S/B	103 classroom 2	P	None	P	None	P	None	P	None	Yes
03	S/B	105 classroom 3	P	None	P	None	P	None			Yes
04	S/B	106 classroom 4	P	None	P	None	P	None			Yes
05	S	115 teacher's lounge	P	None	P	None	P	None			Yes
06	B	hallway, by 127 stage	P	None	P	None	P	None			Yes
07	S	120 nurse office	P	None	P	None	P	None			Yes
08	S	main office	P	None	P	None	P	None			Yes
09	B	hallway, by library	P	None	P	None	P	None	P	None	Yes
10	S/B	library	P	None	P	None	P	None			Yes
11	S/B	138 classroom 15	P	None	P	None	P	None			Yes
12	S/B	139 classroom 14	P	None	P	None	P	None			Yes
13	S/B	140 classroom 13	P	None	P	None	P	None			Yes
14	S/B	143 classroom 12	P	None	P	None	P	None	P	None	Yes
15	S/B	146 classroom 11	P	None	P	None	P	None	P	None	Yes
16	S/B	classroom 10	P	None	P	None	P	None			Yes
17	S/B	150 classroom 9	P	None	P	None	P	None			Yes
18	S/B	151 classroom 8	P	None	P	None	P	None			Yes
19	S/B	152 classroom 7	P	None	P	None	P	None			Yes
20	S/B	153 classroom 6	P	None	P	None	P	None			Yes
21	S/B	154 classroom 5	P	None	P	None	P	None	P	None	Yes
22	S	kitchen, left	P	None	P	None	P	None	P	None	Yes
23	S	kitchen, right	P	None	P	None	P	None			Yes
25	S	kitchen,	P	None	P	None	P	None			Yes
27	B	covered play area	P	None	P	None	P	None			Yes
28	S/B	portable 6, right	P	None	P	None	P	None			Yes
29	S/B	portable 6, left	P	None	P	None	P	None	P	None	Yes
30	S	portable 6, kitchen, right	P	None	P	None	P	None			Yes
31	S	portable 6, kitchen, middle	P	None	P	None	P	None	P	None	Yes
32	S	portable 6, kitchen, left	P	None	P	None	P	None			Yes
33	S	nurse office	P	None	P	None	P	None			Yes

Table 2. Lead Test Results

FIXTURE INFORMATION			Initial Sampling				Follow-up Sampling 1				Follow-up Sampling 2				Follow-up Sampling 3			
Fixture ID	Type	Location	Sampled	1st Draw	Flush 30s	Pass/Fail	Sampled	1st Draw	Flush 30s	Pass/Fail	Sampled	1st Draw	Flush 30s	Pass/Fail	Sampled	1st Draw	Flush 30s	Pass/Fail
01	S/B	102 kindergarten room 1	8/11/2011	6	2	P												
02	S/B	103 classroom 2	8/11/2011	3	2	P												
03	S/B	105 classroom 3	8/11/2011	4	2	P												
04	S/B	106 classroom 4	8/11/2011	6	1	P												
05	S	115 teacher's lounge	8/11/2011	14	16		8/23/2011	8	6	P								
06	B	hallway, by 127 stage	8/11/2011	2	<1	P												
07	S	120 principal office	8/11/2011	16	15		8/23/2011	8	6	P								
08	S	main office	8/11/2011	17	16		8/23/2011	10	8	P								
09	B	hallway, by library	8/11/2011	2	2	P												
10	S/B	libarry	8/11/2011	2	<1	P												
11	S/B	138 classroom 15	8/11/2011	5	<1	P												
12	S/B	139 classroom 14	8/11/2011	7	<1	P												
13	S/B	140 classroom 13	8/11/2011	6	1	P												
14	S/B	143 classroom 12	8/11/2011	2	<1	P												
15	S/B	146 classroom 11	8/11/2011	2	<1	P												
16	S/B	classroom 10	8/11/2011	4	2	P												
17	S/B	150 classroom 9	8/11/2011	7	2	P												
18	S/B	151 classroom 8	8/11/2011	5	<1	P												
19	S/B	152 classroom 7	8/11/2011	4	<1	P												
20	S/B	153 classroom 6	8/11/2011	5	<1	P												
21	S/B	154 classroom 5	8/11/2011	11	<1									2/2/2012	46	2		
22	S	kitchen, left	8/11/2011	23	<1		8/23/2011	7	4	P								
23	S	kitchen, right	8/11/2011	20	<1		8/23/2011	27	4					2/2/2012	<1	<1		P
25	S	kitchen,	8/11/2011	51	1									2/2/2012	2	<1		P
27	B	convered play area	8/11/2011	5	1	P												
28	S/B	portable 6, right									11/9/2011	1	<1	P				
29	S/B	portable 6, left									11/9/2011	2	<1	P				
30	S	portable 6, kitchen, right									11/9/2011	<1	<1	P				
31	S	portable 6, kitchen, middle									11/9/2011	<1	<1	P				
32	S	portable 6, kitchen, left									11/9/2011	1	<1	P				
33	S	nurse office																

Table 2. Lead Test Results(continued)

FIXTURE INFORMATION			Follow-up Sampling 4				Follow-up Sampling 5				Follow-up Sampling 6				Follow-up Sampling 7				Summary Status	
Fixture ID	Type	Location	Sampled	1st Draw	Flush 30s	Pass/Fail	Sampled	1st Draw	Flush 30s	Pass/Fail	Sampled	1st Draw	Flush 30s	Pass/Fail	Sampled	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
01	S/B	102 kindergarten room 1					7/15/2014	3	<1	P					11/22/2017	1	<1	P	P	None
02	S/B	103 classroom 2					7/15/2014	1	<1	P					11/22/2017	<1	<1	P	P	None
03	S/B	105 classroom 3					7/15/2014	2	<1	P					11/22/2017	<1	<1	P	P	None
04	S/B	106 classroom 4					7/15/2014	3	<1	P					11/22/2017	<1	<1	P	P	None
05	S	115 teacher's lounge					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
06	B	hallway, by 127 stage					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
07	S	120 principal office					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
08	S	main office					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
09	B	hallway, by library					7/15/2014	1	<1	P					11/22/2017	<1	<1	P	P	None
10	S/B	libarry					7/15/2014	2	<1	P					11/22/2017	1	<1	P	P	None
11	S/B	138 classroom 15					7/15/2014	2	<1	P					11/22/2017	<1	<1	P	P	None
12	S/B	139 classroom 14					7/15/2014	4	<1	P					11/22/2017	<1	<1	P	P	None
13	S/B	140 classroom 13					7/15/2014	2	<1	P					11/22/2017	<1	<1	P	P	None
14	S/B	143 classroom 12					7/15/2014	3	<1	P					11/22/2017	<1	<1	P	P	None
15	S/B	146 classroom 11					7/15/2014	4	<1	P					11/22/2017	<1	<1	P	P	None
16	S/B	classroom 10					7/15/2014	2	<1	P					11/22/2017	<1	<1	P	P	None
17	S/B	150 classroom 9					7/15/2014	3	1	P					11/22/2017	<1	<1	P	P	None
18	S/B	151 classroom 8					7/15/2014	1	<1	P					11/22/2017	<1	<1	P	P	None
19	S/B	152 classroom 7					7/15/2014	1	<1	P					11/22/2017	<1	<1	P	P	None
20	S/B	153 classroom 6					7/15/2014	3	<1	P					11/22/2017	<1	<1	P	P	None
21	S/B	154 classroom 5	2/23/2012	4	<1	P	7/15/2014	3	<1	P					11/22/2017	1	<1	P	P	None
22	S	kitchen, left					7/15/2014	5	<1	P					11/22/2017	3	<1	P	P	None
23	S	kitchen, right					7/15/2014	4	<1	P					11/22/2017	1	<1	P	P	None
25	S	kitchen,					7/15/2014		<1	P					11/22/2017	<1	<1	P	P	None
27	B	convered play area					7/15/2014	1	<1	P					11/22/2017	<1	<1	P	P	None
28	S/B	portable 6, right					7/15/2014	1	<1	P									P	None
29	S/B	portable 6, left					7/15/2014	<1	<1	P									P	None
30	S	portable 6, kitchen, right					7/15/2014	1	<1	P									P	None
31	S	portable 6, kitchen, middle					7/15/2014	<1	<1	P									P	None
32	S	portable 6, kitchen, left					7/15/2014	<1	<1	P									P	None
33	S	nurse office									9/23/2014	7	1	P					P	None

Table 3. Cadmium Test Results

FIXTURE INFORMATION			Initial Sampling				Follow-up Sampling 1				Follow-up Sampling 2				Follow-up Sampling 3				Follow-up Sampling 4				Summary Status	
Fixture ID	Type	Location	Sampled	1st Draw	Flush 30s	Pass /Fail	Sampled	1st Draw	Flush 30s	Pass /Fail	Sampled	1st Draw	Flush 30s	Pass /Fail	Sampled	1st Draw	Flush 30s	Pass /Fail	Sampled	1st Draw	Flush 30s	Pass /Fail	Pass/Fail	Status
01	S/B	102 kindergarten room 1	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
02	S/B	103 classroom 2	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
03	S/B	105 classroom 3	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
04	S/B	106 classroom 4	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
05	S	115 teacher's lounge	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
06	B	hallway, by 127 stage	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
07	S	120 principal office	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
08	S	main office	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
09	B	hallway, by library	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
10	S/B	libarry	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
11	S/B	138 classroom 15	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
12	S/B	139 classroom 14	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
13	S/B	140 classroom 13	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
14	S/B	143 classroom 12	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
15	S/B	146 classroom 11	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
16	S/B	classroom 10	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
17	S/B	150 classroom 9	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
18	S/B	151 classroom 8	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
19	S/B	152 classroom 7	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
20	S/B	153 classroom 6	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
21	S/B	154 classroom 5	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
22	S	kitchen, left	8/11/2011	5	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
23	S	kitchen, right	8/11/2011	4	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
25	S	kitchen,	8/11/2011	<1	<1	P					7/15/2014		<1	P					11/22/2017	<1	<1	P	P	None
27	B	convered play area	8/11/2011	<1	<1	P					7/15/2014	<1	<1	P					11/22/2017	<1	<1	P	P	None
28	S/B	portable 6, right					11/9/2011	<1	<1	P	7/15/2014	<1	<1	P									P	None
29	S/B	portable 6, left					11/9/2011	<1	<1	P	7/15/2014	<1	<1	P									P	None
30	S	portable 6, kitchen, right					11/9/2011	<1	<1	P	7/15/2014	<1	<1	P									P	None
31	S	portable 6, kitchen, middle					11/9/2011	<1	<1	P	7/15/2014	<1	<1	P									P	None
32	S	portable 6, kitchen, left					11/9/2011	<1	<1	P	7/15/2014	<1	<1	P									P	None
33	S	nurse office													9/23/2014	<1	<1	P					P	None

Table 4. Copper Test Results

FIXTURE INFORMATION			Initial Sampling				Follow-up Sampling 1				Follow-up Sampling 2				Follow-up Sampling 3				Follow-up Sampling 4				Summary Status	
Fixture ID	Type	Location	Sampled	1st Draw	Flush 30s	Pass /Fail	Sampled	1st Draw	Flush 30s	Pass /Fail	Sampled	1st Draw	Flush 30s	Pass /Fail	Sampled	1st Draw	Flush 30s	Pass /Fail	Sampled	1st Draw	Flush 30s	Pass /Fail	Pass/Fail	Status
01	S/B	102 kindergarten room 1	8/11/2011	0.153	0.162	P					7/15/2014	0.146	0.19	P					11/22/2017	0.108	0.111	P	P	None
02	S/B	103 classroom 2	8/11/2011	0.136	0.129	P					7/15/2014	0.188	0.199	P					11/22/2017	0.113	0.146	P	P	None
03	S/B	105 classroom 3	8/11/2011	0.196	0.106	P					7/15/2014	0.183	0.19	P					11/22/2017	0.137	0.121	P	P	None
04	S/B	106 classroom 4	8/11/2011	0.13	0.083	P					7/15/2014	0.153	0.172	P					11/22/2017	0.127	0.108	P	P	None
05	S	115 teacher's lounge	8/11/2011	0.166	0.176	P					7/15/2014	0.122	0.14	P					11/22/2017	0.107	0.105	P	P	None
06	B	hallway, by 127 stage	8/11/2011	0.135	0.106	P					7/15/2014	0.142	0.152	P					11/22/2017	0.152	0.123	P	P	None
07	S	120 principal office	8/11/2011	0.178	0.167	P					7/15/2014	0.122	0.152	P					11/22/2017	0.148	0.146	P	P	None
08	S	main office	8/11/2011	0.2	0.177	P					7/15/2014	0.115	0.147	P					11/22/2017	0.118	0.138	P	P	None
09	B	hallway, by library	8/11/2011	0.136	0.121	P					7/15/2014	0.159	0.147	P					11/22/2017	0.126	0.109	P	P	None
10	S/B	libarry	8/11/2011	0.151	0.096	P					7/15/2014	0.183	0.145	P					11/22/2017	0.126	0.122	P	P	None
11	S/B	138 classroom 15	8/11/2011	0.117	0.122	P					7/15/2014	0.245	0.206	P					11/22/2017	0.218	0.186	P	P	None
12	S/B	139 classroom 14	8/11/2011	0.115	0.129	P					7/15/2014	0.32	0.195	P					11/22/2017	0.197	0.167	P	P	None
13	S/B	140 classroom 13	8/11/2011	0.122	0.137	P					7/15/2014	0.279	0.196	P					11/22/2017	0.224	0.181	P	P	None
14	S/B	143 classroom 12	8/11/2011	0.654	0.672	P					7/15/2014	0.316	0.234	P					11/22/2017	0.193	0.201	P	P	None
15	S/B	146 classroom 11	8/11/2011	0.504	0.482	P					7/15/2014	0.261	0.198	P					11/22/2017	0.191	0.153	P	P	None
16	S/B	classroom 10	8/11/2011	0.315	0.334	P					7/15/2014	0.233	0.196	P					11/22/2017	0.198	0.152	P	P	None
17	S/B	150 classroom 9	8/11/2011	0.147	0.157	P					7/15/2014	0.185	0.166	P					11/22/2017	0.146	0.148	P	P	None
18	S/B	151 classroom 8	8/11/2011	0.109	0.126	P					7/15/2014	0.2	0.172	P					11/22/2017	0.143	0.119	P	P	None
19	S/B	152 classroom 7	8/11/2011	0.085	0.109	P					7/15/2014	0.172	0.153	P					11/22/2017	0.136	0.147	P	P	None
20	S/B	153 classroom 6	8/11/2011	0.088	0.106	P					7/15/2014	0.166	0.144	P					11/22/2017	0.138	0.159	P	P	None
21	S/B	154 classroom 5	8/11/2011	0.089	0.09	P					7/15/2014	0.147	0.138	P					11/22/2017	0.148	0.103	P	P	None
22	S	kitchen, left	8/11/2011	0.076	0.12	P					7/15/2014	0.116	0.13	P					11/22/2017	0.13	0.108	P	P	None
23	S	kitchen, right	8/11/2011	0.128	0.114	P					7/15/2014	0.102	0.126	P					11/22/2017	0.114	0.126	P	P	None
25	S	kitchen,	8/11/2011	0.151	0.11	P					7/15/2014		0.131	P					11/22/2017	0.132	0.12	P	P	None
27	B	convered play area	8/11/2011	0.154	0.134	P					7/15/2014	0.161	0.164	P					11/22/2017	0.15	0.144	P	P	None
28	S/B	portable 6, right					11/9/2011	0.062	0.045	P	7/15/2014	0.078	0.034	P									P	None
29	S/B	portable 6, left					11/9/2011	0.085	0.04	P	7/15/2014	0.055	0.035	P									P	None
30	S	portable 6, kitchen, right					11/9/2011	0.118	0.043	P	7/15/2014	0.099	0.036	P									P	None
31	S	portable 6, kitchen, middle					11/9/2011	0.074	0.044	P	7/15/2014	0.082	0.041	P									P	None
32	S	portable 6, kitchen, left					11/9/2011	0.116	0.048	P	7/15/2014	0.09	0.068	P									P	None
33	S	nurse office													9/23/2014	0.117	0.08	P					P	None

Table 5. Iron Test Results

FIXTURE INFORMATION			Initial Sampling				Follow-up Sampling 1				Follow-up Sampling 2				Follow-up Sampling 3				Summary Status	
Fixture ID	Type	Location	Sampled	1st Draw	Flush 2m	Pass/Fail	Sampled	1st Draw	Flush 30s	Pass/Fail	Sampled	1st Draw	Flush 2m	Pass/Fail	Sampled	1st Draw	Flush 2m	Pass/Fail	Pass/Fail	Status
01	S/B	102 kindergarten room 1	8/11/2011		0.063	P													P	None
02	S/B	103 classroom 2									7/15/2014		<0.05	P					P	None
03	S/B	105 classroom 3																		
04	S/B	106 classroom 4																		
05	S	115 teacher's lounge																		
06	B	hallway, by 127 stage													11/22/2017		0.094	P	P	None
07	S	120 principal office																		
08	S	main office																		
09	B	hallway, by library	8/11/2011		<0.05	P													P	None
10	S/B	libarry																		
11	S/B	138 classroom 15																		
12	S/B	139 classroom 14																		
13	S/B	140 classroom 13																		
14	S/B	143 classroom 12	8/11/2011		<0.05	P									11/22/2017		0.053	P	P	None
15	S/B	146 classroom 11									7/15/2014		<0.05	P					P	None
16	S/B	classroom 10																		
17	S/B	150 classroom 9																		
18	S/B	151 classroom 8																		
19	S/B	152 classroom 7																		
20	S/B	153 classroom 6																		
21	S/B	154 classroom 5	8/11/2011		<0.05	P									11/22/2017		<0.05	P	P	None
22	S	kitchen, left									7/15/2014		<0.05	P					P	None
23	S	kitchen, right																		
25	S	kitchen,																		
27	B	convered play area																		
28	S/B	portable 6, right																		
29	S/B	portable 6, left					11/9/2011	<0.05	<0.05	P									P	None
30	S	portable 6, kitchen, right																		
31	S	portable 6, kitchen, middle									7/15/2014		<0.05	P					P	None
32	S	portable 6, kitchen, left																		
33	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	113 boiler room	Arsenic	22-Nov-17	2 ppb	P
00	SE	113 boiler room	Cadmium	22-Nov-17	1 ppb	P
00	SE	113 boiler room	Copper	22-Nov-17	0.013 ppm	P
00	SE	113 boiler room	Iron	22-Nov-17	0.116 ppm	P
00	SE	113 boiler room	Lead	22-Nov-17	1 ppb	P
00	SE	113 boiler room	Total Coliforms	11-Aug-11	<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.