

**Seattle Public Schools  
Drinking Water Quality Program**

**Results of Water Quality Testing  
for  
Whittier Elementary School**

Updated November 6, 2019

**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.*

**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
05	B	basement hall, N wall, E (rh), right	P	None	P	None	P	None	P	None	Yes
06	B	basement hall, N wall, W (lh), left	P	None	P	None	P	None			Yes
08	S/B	room 201	P	None	P	None	P	None			Yes
09	S/B	room 202	P	None	P	None	P	None			Yes
10	S/B	room 203	P	None	P	None	P	None			Yes
11	B	hall near teachers lounge	P	None	P	None	P	None			Yes
12	S/B	staff/teacher's lounge	P	None	P	None	P	None	P	None	Yes
14	B	lobby, left	P	None	P	None	P	None	P	None	Yes
15	B	lobby, right	P	None	P	None	P	None	P	None	Yes
16	S/B	room 204	P	None	P	None	P	None	P	None	Yes
17	S/B	room 206	P	None	P	None	P	None	P	None	Yes
18	S/B	room 207	P	None	P	None	P	None	P	None	Yes
19	S/B	room 208	P	None	P	None	P	None	P	None	Yes
20	S/B	room 209	P	None	P	None	P	None			Yes
21	S/B	room 211	P	None	P	None	P	None			Yes
22	S/B	room 213	P	None	P	None	P	None			Yes
23	S/B	room 210	P	None	P	None	P	None			Yes
24	S/B	room 212	P	None	P	None	P	None			Yes
25	S/B	room 214	P	None	P	None	P	None	P	None	Yes
26	S/B	room 306	P	None	P	None	P	None	P	None	Yes
27	S/B	room 307	P	None	P	None	P	None	P	None	Yes
28	S/B	room 304	P	None	P	None	P	None	P	None	Yes
29	S/B	room 305	P	None	P	None	P	None	P	None	Yes
30	S/B	room 302	P	None	P	None	P	None			Yes
31	S/B	room 303	P	None	P	None	P	None			Yes
32	B	3rd floor hall, left	P	None	P	None	P	None			Yes
33	B	3rd floor hall, right	P	None	P	None	P	None			Yes
34	S	kitchen, west wall, south tap, left	P	None	P	None	P	None	P	None	Yes
35	S	Room 141 workroom	P	None	P	None	P	None	P	None	Yes
36	S/B	nurses office	P	None	P	None	P	None			Yes
37	S/B	office room 130	P	None	P	None	P	None			Yes
38	B	Gym, left (tall) bubbler	P	None	P	None	P	None	P	None	Yes
39	B	Gym, right (short) bubbler	P	None	P	None	P	None			Yes
40	S	kitchen, south wall	P	None	P	None	P	None			Yes
45	S	room 150	P	None	P	None	P	None			Yes
46	S	room 301	P	None	P	None	P	None	P	None	Yes
47	S	library office	P	None	P	None	P	None			Yes
48	S	kitchen, west wall, north tap, right	P	None	P	None	P	None			Yes
49	BF	lobby, bottle filler	P	None	P	None	P	None			Yes

Table 2. Lead Test Results

FIXTURE INFORMATION			7/15/2009			7/12/2012			9/4/2015			8/31/2019			10/11/2019			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	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
05	B	basement hall, N wall, E (rh), right	1	<1	P	1	<1	P	<1	<1	P				<1	<1	P	P	None
06	B	basement hall, N wall, W (lh), left	1	<1	P	1	<1	P	<1	<1	P				<1	<1	P	P	None
08	S/B	room 201	<1	<1	P	<1	<1	P	1	<1	P				<1	<1	P	P	None
09	S/B	room 202	1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
10	S/B	room 203	<1	<1	P	<1	<1	P	2	<1	P				<1	<1	P	P	None
11	B	hall near teachers lounge	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
12	S/B	staff/teacher's lounge	1	<1	P	1	<1	P	<1	<1	P				<1	<1	P	P	None
14	B	lobby, left	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
15	B	lobby, right	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
16	S/B	room 204	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
17	S/B	room 206	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
18	S/B	room 207	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
19	S/B	room 208	<1	<1	P	<1	<1	P	1	<1	P				<1	<1	P	P	None
20	S/B	room 209	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
21	S/B	room 211	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
22	S/B	room 213	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
23	S/B	room 210	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
24	S/B	room 212	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
25	S/B	room 214	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
26	S/B	room 306	1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
27	S/B	room 307	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
28	S/B	room 304	1	<1	P	<1	<1	P	2	<1	P				<1	<1	P	P	None
29	S/B	room 305	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
30	S/B	room 302	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
31	S/B	room 303	1	2	P	<1	1	P	1	<1	P				1	<1	P	P	None
32	B	3rd floor hall, left	1	<1	P	<1	<1	P	2	<1	P				<1	<1	P	P	None
33	B	3rd floor hall, right	1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
34	S	kitchen, west wall, south tap, left	1	11		20	1		12	<1		2	<1	P	<1	<1	P	P	None
35	S	Room 141 workroom	2	1	P	3	<1	P	7	5	P				5	<1	P	P	None
36	S/B	nurses office	1	<1	P	1	<1	P	1	<1	P				2	<1	P	P	None
37	S/B	office room 130	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
38	B	Gym, left (tall) bubbler	1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
39	B	Gym, right (short) bubbler	<1	<1	P	<1	<1	P	<1	<1	P				<1	<1	P	P	None
40	S	kitchen, south wall	<1	1	P	4	<1	P	4	<1	P				1	<1	P	P	None
45	S	room 150	2	<1	P	6	1	P	4	<1	P				<1	<1	P	P	None
46	S	room 301	4	<1	P	5	<1	P	12	<1		1	<1	P	<1	<1	P	P	None
47	S	library office	1	<1	P	4	<1	P	5	<1	P				3	<1	P	P	None
48	S	kitchen, west wall, north tap, right													<1	<1	P	P	None
49	BF	lobby, bottle filler													<1	<1	P	P	None

Table 3. Cadmium Test Results

FIXTURE INFORMATION			7/15/2009			7/12/2012			9/4/2015			10/11/2019			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
05	B	basement hall, N wall, E (rh), right	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
06	B	basement hall, N wall, W (lh), left	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
08	S/B	room 201	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
09	S/B	room 202	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
10	S/B	room 203	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
11	B	hall near teachers lounge	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
12	S/B	staff/teacher's lounge	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
14	B	lobby, left	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
15	B	lobby, right	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
16	S/B	room 204	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
17	S/B	room 206	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
18	S/B	room 207	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
19	S/B	room 208	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
20	S/B	room 209	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
21	S/B	room 211	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
22	S/B	room 213	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
23	S/B	room 210	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
24	S/B	room 212	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
25	S/B	room 214	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
26	S/B	room 306	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
27	S/B	room 307	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
28	S/B	room 304	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
29	S/B	room 305	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
30	S/B	room 302	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
31	S/B	room 303	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
32	B	3rd floor hall, left	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
33	B	3rd floor hall, right	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
34	S	kitchen, west wall, south tap, left	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
35	S	Room 141 workroom	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
36	S/B	nurses office	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
37	S/B	office room 130	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
38	B	Gym, left (tall) bubbler	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
39	B	Gym, right (short) bubbler	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
40	S	kitchen, south wall	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
45	S	room 150	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
46	S	room 301	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
47	S	library office	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
48	S	kitchen, west wall, north tap, right										<1	<1	P	P	None
49	BF	lobby, bottle filler										<1	<1	P	P	None

Table 4. Copper Test Results

FIXTURE INFORMATION			7/15/2009			7/12/2012			9/4/2015			10/11/2019			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
05	B	basement hall, N wall, E (rh), right	0.468	0.386	P	0.398	0.345	P	0.136	0.113	P	0.31	0.226	P	P	None
06	B	basement hall, N wall, W (lh), left	0.467	0.148	P	0.444	0.438	P	0.149	0.136	P	0.209	0.144	P	P	None
08	S/B	room 201	0.471	0.495	P	0.263	0.335	P	0.111	0.132	P	0.116	0.128	P	P	None
09	S/B	room 202	0.397	0.237	P	0.269	0.31	P	0.151	0.161	P	0.142	0.137	P	P	None
10	S/B	room 203	0.51	0.121	P	0.389	0.147	P	0.184	0.093	P	0.221	0.074	P	P	None
11	B	hall near teachers lounge	0.277	0.028	P	0.276	0.198	P	0.089	0.011	P	0.085	0.015	P	P	None
12	S/B	staff/teacher's lounge	0.358	0.252	P	0.367	0.252	P	0.12	0.112	P	0.163	0.071	P	P	None
14	B	lobby, left	0.314	0.356	P	0.245	0.255	P	0.151	0.143	P	0.121	0.118	P	P	None
15	B	lobby, right	0.33	0.406	P	0.25	0.266	P	0.125	0.136	P	0.105	0.107	P	P	None
16	S/B	room 204	0.391	0.294	P	0.345	0.349	P	0.192	0.195	P	0.203	0.047	P	P	None
17	S/B	room 206	0.365	0.324	P	0.335	0.244	P	0.186	0.128	P	0.166	0.094	P	P	None
18	S/B	room 207	0.378	0.179	P	0.373	0.308	P	0.171	0.216	P	0.185	0.12	P	P	None
19	S/B	room 208	0.204	0.182	P	0.345	0.303	P	0.163	0.154	P	0.15	0.131	P	P	None
20	S/B	room 209	0.341	0.17	P	0.343	0.33	P	0.17	0.147	P	0.228	0.152	P	P	None
21	S/B	room 211	0.405	0.394	P	0.416	0.362	P	0.111	0.099	P	0.243	0.239	P	P	None
22	S/B	room 213	0.84	0.184	P	0.452	0.44	P	0.194	0.218	P	0.198	0.135	P	P	None
23	S/B	room 210	0.384	0.242	P	0.36	0.301	P	0.154	0.175	P	0.178	0.157	P	P	None
24	S/B	room 212	0.563	0.449	P	0.453	0.448	P	0.262	0.226	P	0.036	0.036	P	P	None
25	S/B	room 214	0.478	0.598	P	0.368	0.431	P	0.231	0.224	P	0.286	0.291	P	P	None
26	S/B	room 306	0.384	0.16	P	0.342	0.251	P	0.171	0.172	P	0.163	0.126	P	P	None
27	S/B	room 307	0.42	0.17	P	0.347	0.284	P	0.16	0.162	P	0.16	0.124	P	P	None
28	S/B	room 304	0.37	0.156	P	0.321	0.25	P	0.181	0.126	P	0.188	0.123	P	P	None
29	S/B	room 305	0.387	0.179	P	0.319	0.25	P	0.187	0.158	P	0.187	0.142	P	P	None
30	S/B	room 302	0.427	0.258	P	0.326	0.239	P	0.159	0.142	P	0.155	0.114	P	P	None
31	S/B	room 303	0.366	0.281	P	0.332	0.322	P	0.134	0.109	P	0.177	0.124	P	P	None
32	B	3rd floor hall, left	0.568	0.461	P	0.471	0.394	P	0.332	0.264	P	0.185	0.161	P	P	None
33	B	3rd floor hall, right	0.425	0.428	P	0.375	0.351	P	0.116	0.084	P	0.123	0.092	P	P	None
34	S	kitchen, west wall, south tap, left	0.105	0.284	P	0.125	0.291	P	0.107	0.05	P	0.104	0.027	P	P	None
35	S	Room 141 workroom	0.296	0.141	P	0.316	0.229	P	0.182	0.116	P	0.232	0.232	P	P	None
36	S/B	nurses office	0.399	0.29	P	0.329	0.276	P	0.147	0.129	P	0.182	0.14	P	P	None
37	S/B	office room 130	0.428	0.449	P	0.48	0.485	P	0.188	0.186	P	0.345	0.327	P	P	None
38	B	Gym, left (tall) bubbler	0.394	0.33	P	0.294	0.269	P	0.155	0.12	P	0.149	0.121	P	P	None
39	B	Gym, right (short) bubbler	0.406	0.352	P	0.254	0.235	P	0.122	0.094	P	0.12	0.092	P	P	None
40	S	kitchen, south wall	0.357	0.159	P	0.315	0.237	P	0.16	0.031	P	0.195	0.024	P	P	None
45	S	room 150	0.301	0.461	P	0.292	0.303	P	0.168	0.125	P	0.263	0.102	P	P	None
46	S	room 301	0.395	0.259	P	0.368	0.289	P	0.194	0.086	P	0.149	0.026	P	P	None
47	S	library office	0.43	0.125	P	0.384	0.205	P	0.226	0.054	P	0.208	0.04	P	P	None
48	S	kitchen, west wall, north tap, right										0.139	0.058	P	P	None
49	BF	lobby, bottle filler										0.083	0.097	P	P	None

Table 5. Iron Test Results

FIXTURE INFORMATION			7/15/2009		7/12/2012		9/4/2015		10/11/2019		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
05	B	basement hall, N wall, E (rh), right									P	None
06	B	basement hall, N wall, W (lh), left										
08	S/B	room 201										
09	S/B	room 202										
10	S/B	room 203										
11	B	hall near teachers lounge										
12	S/B	staff/teacher's lounge	<0.05	P							P	None
14	B	lobby, left			<0.05	P					P	None
15	B	lobby, right					<0.05	P			P	None
16	S/B	room 204	<0.05	P					<0.05	P	P	None
17	S/B	room 206			<0.05	P					P	None
18	S/B	room 207					<0.05	P			P	None
19	S/B	room 208									P	None
20	S/B	room 209										
21	S/B	room 211										
22	S/B	room 213										
23	S/B	room 210										
24	S/B	room 212										
25	S/B	room 214	<0.05	P							P	None
26	S/B	room 306	<0.05	P							P	None
27	S/B	room 307							<0.05	P	P	None
28	S/B	room 304			<0.05	P					P	None
29	S/B	room 305					<0.05	P			P	None
30	S/B	room 302										
31	S/B	room 303										
32	B	3rd floor hall, left										
33	B	3rd floor hall, right										
34	S	kitchen, west wall, south tap, left									P	None
35	S	Room 141 workroom									P	None
36	S/B	nurses office										
37	S/B	office room 130										
38	B	Gym, left (tall) bubbler					<0.05	P			P	None
39	B	Gym, right (short) bubbler										
40	S	kitchen, south wall										
45	S	room 150										
46	S	room 301							<0.05	P	P	None
47	S	library office										
48	S	kitchen, west wall, north tap, right										
49	BF	lobby, bottle filler										

Table 6. Service Entry Test Results

SOURCE INFORMATION			<i>Most Recent Sampling</i>			
Fixture ID	Type	Location	Item	Sampled	Max Value	Pass/Fail
00	SE	boiler room	Arsenic	11-Oct-19	2 ppb	P
00	SE	boiler room	Cadmium	11-Oct-19	1 ppb	P
00	SE	boiler room	Chlorine	14-May-04	0.08 ppm	P
00	SE	boiler room	Copper	11-Oct-19	0.051 ppm	P
00	SE	boiler room	E coli	14-May-04	<1 Colonies	P
00	SE	boiler room	Iron	11-Oct-19	<0.05 ppm	P
00	SE	boiler room	Lead	11-Oct-19	1 ppb	P
00	SE	boiler room	Total Coliforms	15-Jul-09	<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.