

**Seattle Public Schools
Drinking Water Quality Program**

**Results of Water Quality Testing
for
Graham Hill Elementary**

Updated October 2nd , 2019

General Information:

Plumbing piping materials: mixed galvanized steel and 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 2021-2022.

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

*Legend applies to all tables below.

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	room # 205	P	None	P	None	P	None	P	None	Yes
02	B	hallway near # 205	P	None	P	None	P	None	P	None	Yes
03	S/B	room # 203	P	None	P	None	P	None			Yes
04	S/B	room # 201	P	None	P	None	P	None	P	None	Yes
05	B	hallway, near rom 207	P	None	P	None	P	None			Yes
06	B	main hallway (near lav)	P	None	P	None	P	None	P	None	Yes
07	S	teachers lounge	P	None	P	None	P	None	P	None	Yes
08	S/B	room # 230	P	None	P	None	P	None	P	None	Yes
09	S/B	room # 232	P	None	P	None	P	None	P	None	Yes
10	S/B	room # 234	P	None	P	None	P	None	P	None	Yes
11	S/B	room # 235	P	None	P	None	P	None	P	None	Yes
12	S/B	room # 233	P	None	P	None	P	None	P	None	Yes
13	S/B	room # 101	P	None	P	None	P	None	P	None	Yes
14	S/B	room #103	P	None	P	None	P	None	P	None	Yes
15	B	hallway near # 103	P	None	P	None	P	None	P	None	Yes
16	S/B	room # 105	P	None	P	None	P	None	P	None	Yes
17	B	hallway near # 107	P	None	P	None	P	None			Yes
18	S/B	room # 108	P	None	P	None	P	None	P	None	Yes
19	S/B	room # 110	P	None	P	None	P	None	P	None	Yes
20	S/B	room # 112	P	None	P	None	P	None	P	None	Yes
23	S/B	room # 241	P	None	P	None	P	None	P	None	Yes
24	S/B	room # computer room	P	None	P	None	P	None	P	None	Yes
25	S/B	room # 236	P	None	P	None	P	None	P	None	Yes
26	B	foyer (near # 125)	P	None	P	None	P	None	P	None	Yes
27	S/B	room # 123/125	P	None	P	None	P	None	P	None	Yes
28	S/B	room # 121	P	None	P	None	P	None	P	None	Yes
29	S/B	room # 119 (music)	P	None	P	None	P	None	P	None	Yes
30	S/B	room # 114	P	None	P	None	P	None	P	None	Yes
32	S	nurses office	P	None	P	None	P	None	P	None	Yes
33	S	kitchen (right most tap on left wall upon entry)	P	None	P	None	P	None	P	None	Yes
34	S	kitchen, left wall upon entry, middle	P	None	P	None	P	None	P	None	Yes
35	S	kitchen, left wall upon entry, left	P	None	P	None	P	None			Yes
37	S/B	library office	P	None	P	None	P	None	P	None	Yes
38	S	room 211, volunteer	P	None	P	None	P	None	P	None	Yes

Table 2. Lead Test Results

FIXTURE INFORMATION			10/27/2009			11/14/2012			10/9/2015			6/28/2019			8/31/2019			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
01	S/B	room # 205	2	<1	P	1	<1	P	<1	<1	P	<1	<1	P				P	None
02	B	hallway near # 205	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
03	S/B	room # 203	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
04	S/B	room # 201	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
05	B	hallway, near rom 207							<1	<1	P	<1	<1	P				P	None
06	B	main hallway (near lav)	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
07	S	teachers lounge	1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
08	S/B	room # 230	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
09	S/B	room # 232	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
10	S/B	room # 234	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
11	S/B	room # 235	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
12	S/B	room # 233	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
13	S/B	room # 101	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
14	S/B	room #103	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
15	B	hallway near # 103	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
16	S/B	room # 105	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
17	B	hallway near # 107	1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
18	S/B	room # 108	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
19	S/B	room # 110	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
20	S/B	room # 112	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P				P	None
23	S/B	room # 241				4	<1	P	4	<1	P	1	<1	P				P	None
24	S/B	room # computer room				1	<1	P	<1	<1	P	<1	<1	P				P	None
25	S/B	room # 236				<1	<1	P	<1	<1	P	<1	<1	P				P	None
26	B	foyer (near # 125)				<1	<1	P	<1	<1	P	<1	<1	P				P	None
27	S/B	room # 123/125				<1	<1	P	<1	<1	P	<1	<1	P				P	None
28	S/B	room # 121				<1	<1	P	2	<1	P	<1	<1	P				P	None
29	S/B	room # 119 (music)				5	<1	P	6	<1	P	<1	<1	P				P	None
30	S/B	room # 114				<1	<1	P	<1	<1	P	<1	<1	P				P	None
32	S	nurses office	3	<1	P	1	<1	P	1	<1	P	<1	<1	P				P	None
33	S	kitchen (right most tap on left wall upon entry)	2	<1	P	1	<1	P	<1	<1	P	<1	<1	P				P	None
34	S	kitchen, left wall upon entry, middle							<1	<1	P	<1	<1	P				P	None
35	S	kitchen, left wall upon entry, left	2	<1	P	2	<1	P	<1	<1	P	1	<1	P				P	None
37	S/B	library office				5	<1	P	12	2		2	<1	P	2	<1	P	P	None
38	S	room 211, volunteer	8	2	P	4	3	P	5	<1	P	2	<1	P				P	None

Table 3. Cadmium Test Results

FIXTURE INFORMATION			10/27/2009			11/14/2012			10/9/2015			6/28/2019			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	S/B	room # 205	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
02	B	hallway near # 205	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
03	S/B	room # 203	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
04	S/B	room # 201	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
05	B	hallway, near rom 207							<1	<1	P	<1	<1	P	P	None
06	B	main hallway (near lav)	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
07	S	teachers lounge	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
08	S/B	room # 230	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
09	S/B	room # 232	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
10	S/B	room # 234	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
11	S/B	room # 235	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
12	S/B	room # 233	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
13	S/B	room # 101	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
14	S/B	room #103	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
15	B	hallway near # 103	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
16	S/B	room # 105	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
17	B	hallway near # 107	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
18	S/B	room # 108	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
19	S/B	room # 110	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
20	S/B	room # 112	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
23	S/B	room # 241				<1	<1	P	<1	<1	P	<1	<1	P	P	None
24	S/B	room # computer room				<1	<1	P	<1	<1	P	<1	<1	P	P	None
25	S/B	room # 236				<1	<1	P	<1	<1	P	<1	<1	P	P	None
26	B	foyer (near # 125)				<1	<1	P	<1	<1	P	<1	<1	P	P	None
27	S/B	room # 123/125				<1	<1	P	<1	<1	P	<1	<1	P	P	None
28	S/B	room # 121				<1	<1	P	<1	<1	P	<1	<1	P	P	None
29	S/B	room # 119 (music)				<1	<1	P	<1	<1	P	<1	<1	P	P	None
30	S/B	room # 114				<1	<1	P	<1	<1	P	<1	<1	P	P	None
32	S	nurses office	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
33	S	kitchen (right most tap on left wall upon entry)	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
34	S	kitchen, left wall upon entry, middle							<1	<1	P	<1	<1	P	P	None
35	S	kitchen, left wall upon entry, left	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None
37	S/B	library office				<1	<1	P	<1	<1	P	<1	<1	P	P	None
38	S	room 211, volunteer	<1	<1	P	<1	<1	P	<1	<1	P	<1	<1	P	P	None

Table 4. Copper Test Results

FIXTURE INFORMATION			10/27/2009			11/14/2012			10/9/2015			6/28/2019			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	S/B	room # 205	0.239	0.046	P	0.2	0.026	P	0.124	0.081	P	0.147	0.116	P	P	None
02	B	hallway near # 205	0.265	0.263	P	0.227	0.231	P	0.156	0.174	P	0.229	0.191	P	P	None
03	S/B	room # 203	0.256	0.13	P	0.195	0.053	P	0.126	0.114	P	0.118	0.121	P	P	None
04	S/B	room # 201	0.23	0.189	P	0.203	0.168	P	0.138	0.097	P	0.179	0.152	P	P	None
05	B	hallway, near rom 207							0.15	0.108	P	0.162	0.155	P	P	None
06	B	main hallway (near lav)	0.264	0.076	P	0.208	0.056	P	0.129	0.123	P	0.175	0.098	P	P	None
07	S	teachers lounge	0.218	0.258	P	0.201	0.212	P	0.127	0.124	P	0.2	0.145	P	P	None
08	S/B	room # 230	0.241	0.262	P	0.195	0.231	P	0.129	0.156	P	0.185	0.209	P	P	None
09	S/B	room # 232	0.251	0.264	P	0.219	0.242	P	0.153	0.148	P	0.231	0.245	P	P	None
10	S/B	room # 234	0.269	0.275	P	0.216	0.246	P	0.16	0.161	P	0.24	0.244	P	P	None
11	S/B	room # 235	0.295	0.274	P	0.222	0.216	P	0.144	0.165	P	0.252	0.217	P	P	None
12	S/B	room # 233	0.276	0.26	P	0.208	0.208	P	0.15	0.147	P	0.215	0.2	P	P	None
13	S/B	room # 101	0.252	0.29	P	0.195	0.204	P	0.18	0.158	P	0.136	0.119	P	P	None
14	S/B	room #103	0.227	0.239	P	0.181	0.174	P	0.132	0.158	P	0.142	0.151	P	P	None
15	B	hallway near # 103	0.275	0.258	P	0.13	0.123	P	0.182	0.193	P	0.248	0.221	P	P	None
16	S/B	room # 105	0.222	0.098	P	0.018	0.022	P	0.12	0.149	P	0.138	0.125	P	P	None
17	B	hallway near # 107	0.253	0.215	P	0.205	0.163	P	0.133	0.091	P	0.153	0.166	P	P	None
18	S/B	room # 108	0.236	0.277	P	0.167	0.241	P	0.137	0.162	P	0.157	0.194	P	P	None
19	S/B	room # 110	0.219	0.294	P	0.172	0.228	P	0.134	0.169	P	0.18	0.205	P	P	None
20	S/B	room # 112	0.236	0.292	P	0.159	0.244	P	0.151	0.169	P	0.245	0.287	P	P	None
23	S/B	room # 241				0.195	0.165	P	0.164	0.145	P	0.223	0.136	P	P	None
24	S/B	room # computer room				0.137	0.138	P	0.128	0.107	P	0.121	0.123	P	P	None
25	S/B	room # 236				0.194	0.17	P	0.137	0.128	P	0.143	0.136	P	P	None
26	B	foyer (near # 125)				0.273	0.171	P	0.154	0.128	P	0.161	0.124	P	P	None
27	S/B	room # 123/125				0.198	0.201	P	0.142	0.129	P	0.129	0.131	P	P	None
28	S/B	room # 121				0.188	0.181	P	0.094	0.095	P	0.147	0.143	P	P	None
29	S/B	room # 119 (music)				0.225	0.211	P	0.193	0.157	P	0.212	0.193	P	P	None
30	S/B	room # 114				0.224	0.246	P	0.13	0.151	P	0.166	0.18	P	P	None
32	S	nurses office	0.242	0.34	P	0.16	0.186	P	0.119	0.144	P	0.164	0.213	P	P	None
33	S	kitchen (right most tap on left wall upon entry)	0.217	0.32	P	0.192	0.226	P	0.152	0.166	P	0.138	0.142	P	P	None
34	S	kitchen, left wall upon entry, middle							0.169	0.164	P	0.173	0.158	P	P	None
35	S	kitchen, left wall upon entry, left	0.213	0.324	P	0.181	0.199	P	0.17	0.172	P	0.118	0.132	P	P	None
37	S/B	library office				0.204	0.151	P	0.217	0.171	P	0.208	0.129	P	P	None
38	S	room 211, volunteer	0.058	0.123	P	0.062	0.148	P	0.045	0.029	P	0.016	0.092	P	P	None

Table 5. Iron Test Results

FIXTURE INFORMATION			10/27/2009		11/14/2012		10/9/2015		6/28/2019		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
01	S/B	room # 205									P	None
02	B	hallway near # 205									P	None
03	S/B	room # 203										
04	S/B	room # 201	<0.05	P							P	None
05	B	hallway, near rom 207										
06	B	main hallway (near lav)									P	None
07	S	teachers lounge									P	None
08	S/B	room # 230							<0.05	P	P	None
09	S/B	room # 232									P	None
10	S/B	room # 234									P	None
11	S/B	room # 235									P	None
12	S/B	room # 233									P	None
13	S/B	room # 101	<0.05	P							P	None
14	S/B	room #103			<0.05	P					P	None
15	B	hallway near # 103					<0.05	P			P	None
16	S/B	room # 105							<0.05	P	P	None
17	B	hallway near # 107										
18	S/B	room # 108									P	None
19	S/B	room # 110									P	None
20	S/B	room # 112	<0.05	P							P	None
23	S/B	room # 241			<0.05	P					P	None
24	S/B	room # computer room					<0.05	P			P	None
25	S/B	room # 236							<0.05	P	P	None
26	B	foyer (near # 125)									P	None
27	S/B	room # 123/125									P	None
28	S/B	room # 121									P	None
29	S/B	room # 119 (music)									P	None
30	S/B	room # 114									P	None
32	S	nurses office									P	None
33	S	kitchen (right most tap on left wall upon entry)									P	None
34	S	kitchen, left wall upon entry, middle							<0.05	P	P	None
35	S	kitchen, left wall upon entry, left										
37	S/B	library office			<0.05	P					P	None
38	S	room 211, volunteer					<0.05	P			P	None

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	chair storage room - near cafeteria; 5/06: outside faucet by main entry	Arsenic	09-Oct-15	2 ppb	P
00	SE	chair storage room - near cafeteria; 5/06: outside faucet by main entry	Cadmium	28-Jun-19	1 ppb	P
00	SE	chair storage room - near cafeteria; 5/06: outside faucet by main entry	Chlorine	22-Apr-04	0.75 ppm	P
00	SE	chair storage room - near cafeteria; 5/06: outside faucet by main entry	Copper	28-Jun-19	0.099 ppm	P
00	SE	chair storage room - near cafeteria; 5/06: outside faucet by main entry	E coli	22-Apr-04	<1 Colonies	P
00	SE	chair storage room - near cafeteria; 5/06: outside faucet by main entry	Iron	28-Jun-19	<0.05 ppm	P
00	SE	chair storage room - near cafeteria; 5/06: outside faucet by main entry	Lead	28-Jun-19	1 ppb	P
00	SE	chair storage room - near cafeteria; 5/06: outside faucet by main entry	Total Coliforms	27-Oct-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.