

Seattle Public Schools
Drinking Water Quality Program

Results of Water Quality Testing
for
ALKI ELEMENTARY SCHOOL

Updated January 15, 2008

General Information:

Plumbing piping materials: 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.

Status:

Policy Criteria:

This school has one source that does not meet the policy criteria. Sign will be posted at the office sink (#27).

Follow-up monitoring: Will be performed in 2010.

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

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	hall (west)	P	None	P	None	P	None	P	None	Yes
02	B	hall	P	None	P	None	P	None	P	None	Yes
03	B	hall	P	None	P	None	P	None	P	None	Yes
04	B/S	room 208, open class	P	None	P	None	P	None	P	None	Yes
05	B/S	room 210, 4th and 5th	P	None	P	None	P	None	P	None	Yes
06	B/S	room 207, 2nd	P	None	P	None	P	None	P	None	Yes
07	B/S	room 209, 5th	P	None	P	None	P	None	P	None	Yes
08	B/S	room 206, 4th	P	None	P	None	P	None	P	None	Yes
09	B/S	room 205, 2nd	P	None	P	None	P	None	P	None	Yes
10	B/S	room 203, 2nd	P	None	P	None	P	None	P	None	Yes
11	B/S	room 104, resource	P	None	P	None	P	None	P	None	Yes
12	B/S	room 108 - teachers lounge	P	None	P	None	P	None	P	None	Yes
14	B/S	room 109	P	None	P	None	P	None	P	None	Yes
16	B/S	room 107 (library)	P	None	P	None	P	None	P	None	Yes
17	S	room 106. 1st teacher work room	P	None	P	None	P	None	P	None	Yes
25	S	kitchen sink, handwash	P	None	P	None	P	None	P	None	Yes
26	S	nurse station	P	None	P	None	P	None	P	None	Yes
27	S	office sink	F	PS	P	None	P	None	P	None	PS
28	S/B	room 105, 1st	P	None	P	None	P	None	P	None	Yes
29	S/B	room 103, kindergarten	P	None	P	None	P	None	P	None	Yes
30	S/B	room 102, kindergarten	P	None	P	None	P	None	P	None	Yes
31	S	Kitchen south wall	P	None	P	None	P	None	P	None	Yes
32	S	Kitchen east wall, left	P	None	P	None	P	None	P	None	Yes
33	S	Kitchen east wall, middle	P	None	P	None	P	None	P	None	Yes
34	S	Kitchen east wall, right	P	None	P	None	P	None	P	None	Yes
35	S	RM 201, 3rd	P	None	P	None	P	None	P	None	Yes
36	S	RM 202, 3rd	P	None	P	None	P	None	P	None	Yes

Table 2. Lead Test Results

Test Results (Lead/Pb, ppb)																				
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 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	B	hall (west)	3/31/2004	2	<1	P					5/15/2006	1	1	P	11/28/2007	<1	<1	P	P	None
02	B	hall	3/31/2004	2		P					5/15/2006	3	1	P	11/28/2007	<1	<1	P	P	None
03	B	hall	3/31/2004	2	<1	P					5/15/2006	2	1	P	11/28/2007	<1	<1	P	P	None
04	B/S	room 208, open class	3/31/2004	3	1	P					5/15/2006	2	<1	P	11/28/2007	2	<1	P	P	None
05	B/S	room 210, 4th and 5th	3/31/2004	<1	<1	P					5/15/2006	2	1	P	11/28/2007	<1	<1	P	P	None
06	B/S	room 207, 2nd	3/31/2004	<1	<1	P					5/15/2006	6	<1	P	11/28/2007	<1	<1	P	P	None
07	B/S	room 209, 5th	3/31/2004	1	<1	P					5/15/2006	1	<1	P	11/28/2007	<1	<1	P	P	None
08	B/S	room 206, 4th	3/31/2004	1	<1	P					5/15/2006	2	<1	P	11/28/2007	1	<1	P	P	None
09	B/S	room 205, 2nd	3/31/2004	3	<1	P					5/15/2006	2	<1	P	11/28/2007	1	<1	P	P	None
10	B/S	room 203, 2nd	3/31/2004	8	<1	P					5/15/2006	2	1	P	11/28/2007	<1	<1	P	P	None
11	B/S	room 104, resource	3/31/2004	5	<1	P					5/15/2006	5	3	P	11/28/2007	4	<1	P	P	None
12	B/S	room 108 - teachers lounge	3/31/2004	2	<1	P					5/15/2006	3	2	P	11/28/2007	<1	<1	P	P	None
14	B/S	room 109	3/31/2004	3	<1	P					5/15/2006	3	3	P	11/28/2007	2	<1	P	P	None
16	B/S	room 107 (library)	3/31/2004	4	<1	P	5/21/2004	3	<1	P	5/15/2006	4	1	P	11/28/2007	3	<1	P	P	None
17	S	room 106. 1st teacher work room	3/31/2004	1	<1	P	5/21/2004	<1	<1	P	5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
25	S	kitchen sink, handwash	3/31/2004	2	1	P					5/15/2006	6	2	P	11/28/2007	<1	<1	P	P	None
26	S	nurse station	3/31/2004	3	2	P					5/15/2006	3	<1	P	11/28/2007	3	<1	P	P	None
27	S	office sink	3/31/2004	19	1						5/15/2006	29	3		11/28/2007	25	1		F	PS
28	S/B	room 105, 1st					5/21/2004	2	<1	P	5/15/2006	2	<1	P	11/28/2007	3	<1	P	P	None
29	S/B	room 103, kindergarten					5/21/2004	2	<1	P	5/15/2006	2	1	P	11/28/2007	1	<1	P	P	None
30	S/B	room 102, kindergarten					5/21/2004	2	<1	P	5/15/2006	3	1	P	11/28/2007	3	<1	P	P	None
31	S	Kitchen south wall									5/15/2006	2	1	P	11/28/2007	1	<1	P	P	None
32	S	Kitchen east wall, left									5/15/2006	7	<1	P	11/28/2007	<1	<1	P	P	None
33	S	Kitchen east wall, middle									5/15/2006	135	4		11/28/2007	<1	<1	P	P	None
34	S	Kitchen east wall, right									5/15/2006	3	1	P	11/28/2007	8	<1	P	P	None
35	S	RM 201, 3rd									5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
36	S	RM 202, 3rd									5/15/2006	2	1	P	11/28/2007	<1	<1	P	P	None

Table 3. Cadmium Test Results

Test Results (Cadmium/Cd, ppb)																				
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 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	B	hall (west)	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
02	B	hall	3/31/2004	<1		P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
03	B	hall	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
04	B/S	room 208, open class	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
05	B/S	room 210, 4th and 5th	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
06	B/S	room 207, 2nd	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
07	B/S	room 209, 5th	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
08	B/S	room 206, 4th	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
09	B/S	room 205, 2nd	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
10	B/S	room 203, 2nd	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
11	B/S	room 104, resource	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
12	B/S	room 108 - teachers lounge	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
14	B/S	room 109	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
16	B/S	room 107 (library)	3/31/2004	<1	<1	P	5/21/2004	3	2	P	5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
17	S	room 106. 1st teacher work room	3/31/2004	<1	<1	P	5/21/2004	2	2	P	5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
25	S	kitchen sink, handwash	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
26	S	nurse station	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
27	S	office sink	3/31/2004	<1	<1	P					5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
28	S/B	room 105, 1st					5/21/2004	2	2	P	5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
29	S/B	room 103, kindergarten					5/21/2004	3	3	P	5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
30	S/B	room 102, kindergarten					5/21/2004	2	3	P	5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
31	S	Kitchen south wall									5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
32	S	Kitchen east wall, left									5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
33	S	Kitchen east wall, middle									5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
34	S	Kitchen east wall, right									5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
35	S	RM 201, 3rd									5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None
36	S	RM 202, 3rd									5/15/2006	<1	<1	P	11/28/2007	<1	<1	P	P	None

Table 4. Copper Test Results

Test Results (Copper/Cu, ppm)																
FIXTURE INFORMATION			Initial Sampling				Follow-up Sampling 1				Follow-up Sampling 2				Summary Status	
Fixture ID	Type	Location	Sampled	1st Draw	Flush 2m	Pass/Fail	Sampled	1st Draw	Flush 30s	Pass/Fail	Sampled	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
01	B	hall (west)					5/15/2006	0.366	0.092	P	11/28/2007	0.186	0.12	P	P	None
02	B	hall					5/15/2006	0.368	0.085	P	11/28/2007	0.183	0.076	P	P	None
03	B	hall					5/15/2006	0.075	0.068	P	11/28/2007	0.07	0.069	P	P	None
04	B/S	room 208, open class					5/15/2006	0.064	0.024	P	11/28/2007	0.067	0.022	P	P	None
05	B/S	room 210, 4th and 5th					5/15/2006	0.414	0.215	P	11/28/2007	0.282	0.268	P	P	None
06	B/S	room 207, 2nd					5/15/2006	0.257	0.025	P	11/28/2007	0.203	0.056	P	P	None
07	B/S	room 209, 5th					5/15/2006	0.634	0.568	P	11/28/2007	0.416	0.35	P	P	None
08	B/S	room 206, 4th					5/15/2006	0.274	0.028	P	11/28/2007	0.209	0.038	P	P	None
09	B/S	room 205, 2nd					5/15/2006	0.264	0.031	P	11/28/2007	0.207	0.098	P	P	None
10	B/S	room 203, 2nd	3/31/2004	0.816	0.406	P	5/15/2006	0.334	0.284	P	11/28/2007	0.273	0.249	P	P	None
11	B/S	room 104, resource					5/15/2006	0.402	0.078	P	11/28/2007	0.223	0.129	P	P	None
12	B/S	room 108 - teachers lounge	3/31/2004	0.416	0.259	P	5/15/2006	0.394	0.259	P	11/28/2007	0.245	0.132	P	P	None
14	B/S	room 109					5/15/2006	0.316	0.31	P	11/28/2007	0.255	0.12	P	P	None
16	B/S	room 107 (library)					5/15/2006	0.422	0.312	P	11/28/2007	0.279	0.121	P	P	None
17	S	room 106. 1st teacher work room					5/15/2006	0.481	0.328	P	11/28/2007	0.376	0.152	P	P	None
25	S	kitchen sink, handwash	3/31/2004	0.413		P	5/15/2006	0.355	0.362	P	11/28/2007	0.215	0.062	P	P	None
26	S	nurse station	3/31/2004	0.28		P	5/15/2006	0.289	0.372	P	11/28/2007	0.276	0.135	P	P	None
27	S	office sink	3/31/2004	0.39		P	5/15/2006	0.275	0.458	P	11/28/2007	0.211	0.136	P	P	None
28	S/B	room 105, 1st					5/15/2006	0.333	0.048	P	11/28/2007	0.183	0.107	P	P	None
29	S/B	room 103, kindergarten					5/15/2006	0.472	0.403	P	11/28/2007	0.324	0.266	P	P	None
30	S/B	room 102, kindergarten					5/15/2006	0.329	0.328	P	11/28/2007	0.58	0.198	P	P	None
31	S	Kitchen south wall					5/15/2006	0.245	0.179	P	11/28/2007	0.264	0.249	P	P	None
32	S	Kitchen east wall, left					5/15/2006	0.167	0.128	P	11/28/2007	0.057	0.024	P	P	None
33	S	Kitchen east wall, middle					5/15/2006	0.493	0.408	P	11/28/2007	0.168	0.025	P	P	None
34	S	Kitchen east wall, right					5/15/2006	0.469	0.49	P	11/28/2007	0.282	0.023	P	P	None
35	S	RM 201, 3rd					5/15/2006	0.073	0.055	P	11/28/2007	0.193	0.121	P	P	None
36	S	RM 202, 3rd					5/15/2006	0.354	0.147	P	11/28/2007	0.238	0.109	P	P	None

Table 5. Iron Test Results

Test Results (Iron/Fe, ppm)																
FIXTURE INFORMATION			Initial Sampling					Follow-up Sampling 1						Summary Status		
Fixture ID	Type	Location	Sampled	1st Draw	Flush 30s	Flush 2m	Pass/Fail	Status	Sampled	1st Draw	Flush 30s	Flush 2m	Pass/Fail	Status	Pass/Fail	Status
01	B	hall (west)							5/15/2006			0.241	P		P	None
02	B	hall							5/15/2006			0.15	P		P	None
03	B	hall							5/15/2006			0.15	P		P	None
04	B/S	room 208, open class							5/15/2006			0.15	P		P	None
05	B/S	room 210, 4th and 5th							5/15/2006			0.15	P	Sink	P	None
06	B/S	room 207, 2nd							5/15/2006			0.15	P	Sink	P	None
07	B/S	room 209, 5th							5/15/2006			0.15	P		P	None
08	B/S	room 206, 4th							5/15/2006			0.15	P		P	None
09	B/S	room 205, 2nd							5/15/2006			0.15	P	Sink	P	None
10	B/S	room 203, 2nd	3/31/2004	<0.05		<0.05	P		5/15/2006			0.15	P	Sink	P	None
11	B/S	room 104, resource							5/15/2006			0.15	P		P	None
12	B/S	room 108 - teachers lounge	3/31/2004	<0.05		0.06	P		5/15/2006			0.15	P		P	None
14	B/S	room 109							5/15/2006			0.15	P		P	None
16	B/S	room 107 (library)							5/15/2006			0.15	P		P	None
17	S	room 106. 1st teacher work room							5/15/2006			0.15	P	Sink	P	None
25	S	kitchen sink, handwash	3/31/2004	0.09			P		5/15/2006			0.178	P		P	None
26	S	nurse station	3/31/2004	0.09			P		5/15/2006			0.15	P		P	None
27	S	office sink	3/31/2004	<0.05			P		5/15/2006			0.15	P		P	None
28	S/B	room 105, 1st							5/15/2006			0.15	P		P	None
29	S/B	room 103, kindergarten							5/15/2006			0.15	P		P	None
30	S/B	room 102, kindergarten							5/15/2006			0.15	P		P	None
31	S	Kitchen south wall							5/15/2006			0.15	P		P	None
32	S	Kitchen east wall, left							5/15/2006			0.15	P		P	None
33	S	Kitchen east wall, middle							5/15/2006			0.15	P		P	None
34	S	Kitchen east wall, right							5/15/2006			0.15	P		P	None
35	S	RM 201, 3rd							5/15/2006			0.15	P		P	None
36	S	RM 202, 3rd							5/15/2006			0.15	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	boiler room	Arsenic	18-Jan-08	2 ppb	P
00	SE	boiler room	Cadmium	18-Jan-08	1 ppb	P
00	SE	boiler room	Copper	18-Jan-08	0.049 ppm	P
00	SE	boiler room	E coli	31-Mar-04	<1 Colonies	P
00	SE	boiler room	Iron	18-Jan-08	0.093 ppm	P
00	SE	boiler room	Lead	18-Jan-08	9 ppb	P
00	SE	boiler room	Total Coliforms	31-Mar-04	<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.