

eattle Public Schools
Drinking Water Quality Program

Results of Water Quality Testing
for
Alternative School #1 K-8 at Pinehurst

Updated March 11, 2008

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: This school has four sources that do not meet the policy criteria. Signs will be posted at room 10, south (#40), The following locations will be disabled: Hallway, (#1), Hallway (#2), Hallway (left) (#8).

Follow-up monitoring: Will be performed in 2011.

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			CURRENT STATUS								OK?
			LEAD		CADMIUM		COPPER		IRON		
Fixture ID	Type	Location	Pass/Fail	Status	Pass/Fail	Status	Pass/Fail	Status	Pass/Fail	Status	Yes/No/Status
01	B	hallway	F	OS	P	None	P	None	n/a	None	OS
02	B	hallway	F	OS	P	None	P	None	P	None	OS
03	B	hallway	P	None	P	None	P	None	P	None	Yes
06	B	hallway	P	None	P	None	P	None	n/a	None	Yes
08	B	hallway, left	F	OS	P	None	P	None	P	None	OS
09	B	hallway, right	P	None	P	None	P	None	P	None	Yes
10	S	room 9	P	None	P	None	P	None	n/a	None	Yes
11	S/B	room 8, library	P	None	P	None	P	None	P	None	Yes
12	S	room 7	P	None	P	None	P	None	n/a	None	Yes
13	S/B	nurse's office	P	None	P	None	P	None	n/a	None	Yes
15	S	teacher wk rm	P	None	P	None	P	None	P	None	Yes
16	S	room 5	P	None	P	None	P	None	n/a	None	Yes
17	S	room 1	P	None	P	None	P	None	P	None	Yes
18	S	room 2	P	None	P	None	P	None	P	None	Yes
19	S	room 16	P	None	P	None	P	None	n/a	None	Yes
21	S	kitchen	P	None	P	None	P	None	P	None	Yes
22	S	room 12, art	P	None	P	None	P	None	P	None	Yes
23	S	room 11	P	None	P	None	P	None	P	None	Yes
24	S	room 10	P	None	P	None	P	None	P	None	Yes
25	S	room 5	P	None	P	None	P	None	P	None	Yes
26	S	room 4	P	None	P	None	P	None	P	None	Yes
27	S	room 14	P	None	P	None	P	None	n/a	None	Yes
28	S	room 15	P	None	P	None	P	None	P	None	Yes
29	S	kitchen, handwash	P	None	P	None	P	None	n/a	None	Yes
30	S	Studio (cooking classroom)	P	None	P	None	P	None	n/a	None	Yes
31	S	resource	P	None	P	None	P	None	n/a	None	Yes
32	S	room 3, office	P	None	P	None	P	None	n/a	None	Yes
33	S	room 13 -- north wall	P	None	P	None	P	None	n/a	None	Yes
34	S	room 13, south-east	P	None	P	None	P	None	n/a	None	Yes
35	S	room 13, south-west	P	None	P	None	P	None	n/a	None	Yes
36	S	room 13, middle	P	None	P	None	P	None	n/a	None	Yes
37	S	room 13, west wall	P	None	P	None	P	None	n/a	None	Yes
38	S	room 10, west	P	None	P	None	P	None	n/a	None	Yes
39	S	room 10, middle	P	None	P	None	P	None	n/a	None	Yes
40	S	room 10, south	F	PS	P	None	P	None	n/a	None	PS
41	S	room 10, east	P	None	P	None	P	None	n/a	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	B	hallway									6/9/2005				8/24/2005			
02	B	hallway	5/7/2004	1	<1	P												
03	B	hallway	5/7/2004	1	<1	P												
06	B	hallway									6/9/2005				8/24/2005			
08	B	hallway, left	5/7/2004	3	1	P												
09	B	hallway, right	5/7/2004	2	2	P												
10	S	room 9	5/7/2004	29	11						6/9/2005	23	6		8/24/2005	13	1	
11	S/B	room 8, library	5/7/2004	36	9						6/9/2005	11	7		8/24/2005	3	<1	P
12	S	room 7									6/9/2005				8/24/2005			
13	S/B	nurse's office	5/7/2004	13	4						6/9/2005	6	<1	P				
15	S	teacher wk rm	5/7/2004	1	<1	P												
16	S	room 5									6/9/2005				8/24/2005			
17	S	room 1	5/7/2004	6	2	P												
18	S	room 2	5/7/2004	4	3	P												
19	S	room 16	5/7/2004	<1	1	P												
21	S	kitchen	5/7/2004	<1	<1	P												
22	S	room 12, art					9/16/2004	7	2	P								
23	S	room 11					9/16/2004	6	2	P								
24	S	room 10					9/16/2004	11	<1		6/9/2005				8/24/2005			
25	S	room 5					9/16/2004	2	<1	P								
26	S	room 4					9/16/2004	2	<1	P								
27	S	room 14					9/16/2004	1	<1	P								
28	S	room 15					9/16/2004	4	<1	P								
29	S	kitchen, handwash																
30	S	Studio (cooking classroom)																
31	S	resource																
32	S	room 3, office																
33	S	room 13 -- north wall																
34	S	room 13, south-east																
35	S	room 13, south-west																
36	S	room 13, middle																
37	S	room 13, west wall																
38	S	room 10, west																
39	S	room 10, middle																
40	S	room 10, south																
41	S	room 10, east																

Table 2. Lead Test Results (continued)

FIXTURE INFORMATION			Follow-up Sampling 4				Follow-up Sampling 5				Follow-up Sampling 6				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	Pass/Fail	Status
01	B	hallway									1/23/2008	12	1		F	OS
02	B	hallway									1/23/2008	12	<1		F	OS
03	B	hallway									1/23/2008	3	<1	P	P	None
06	B	hallway									1/23/2008	10	<1	P	P	None
08	B	hallway, left									1/23/2008	24	1		F	OS
09	B	hallway, right									1/23/2008	6	<1	P	P	None
10	S	room 9	10/14/2005	<1	<1	P					1/23/2008	1	<1	P	P	None
11	S/B	room 8, library									1/23/2008	2	<1	P	P	None
12	S	room 7									1/23/2008	2	<1	P	P	None
13	S/B	nurse's office									1/23/2008	<1	<1	P	P	None
15	S	teacher wk rm									1/23/2008		<1	P	P	None
16	S	room 5					5/15/2006	2	<1	P	1/23/2008	4	<1	P	P	None
17	S	room 1									1/23/2008	<1	<1	P	P	None
18	S	room 2									1/23/2008	<1	<1	P	P	None
19	S	room 16									1/23/2008	<1	<1	P	P	None
21	S	kitchen									1/23/2008	<1	<1	P	P	None
22	S	room 12, art									1/23/2008	<1	<1	P	P	None
23	S	room 11									1/23/2008	<1	<1	P	P	None
24	S	room 10									1/23/2008	3	<1	P	P	None
25	S	room 5									1/23/2008	1	<1	P	P	None
26	S	room 4									1/23/2008	2	<1	P	P	None
27	S	room 14									1/23/2008	2	<1	P	P	None
28	S	room 15									1/23/2008	<1	<1	P	P	None
29	S	kitchen, handwash									1/23/2008	3	<1	P	P	None
30	S	Studio (cooking classroom)									1/23/2008	<1	<1	P	P	None
31	S	resource									1/23/2008	2	2	P	P	None
32	S	room 3, office									1/23/2008	2	<1	P	P	None
33	S	room 13 -- north wall									1/23/2008	5	1	P	P	None
34	S	room 13, south-east									1/23/2008	2	2	P	P	None
35	S	room 13, south-west									1/23/2008	3	2	P	P	None
36	S	room 13, middle									1/23/2008	2	1	P	P	None
37	S	room 13, west wall									1/23/2008	1	<1	P	P	None
38	S	room 10, west									1/23/2008	3	<1	P	P	None
39	S	room 10, middle									1/23/2008	6	1	P	P	None
40	S	room 10, south									1/23/2008	12	1		F	PS
41	S	room 10, east									1/23/2008	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	hallway					6/9/2005								1/23/2008	<1	<1	P	P	None
02	B	hallway	5/7/2004	<1	<1	P									1/23/2008	<1	<1	P	P	None
03	B	hallway					6/9/2005	<1	<1	P					1/23/2008	<1	<1	P	P	None
06	B	hallway					6/9/2005								1/23/2008	<1	<1	P	P	None
08	B	hallway, left					6/9/2005	<1	<1	P					1/23/2008	<1	<1	P	P	None
09	B	hallway, right					6/9/2005	<1	<1	P					1/23/2008	<1	<1	P	P	None
10	S	room 9					6/9/2005	1	<1	P					1/23/2008	<1	<1	P	P	None
11	S/B	room 8, library	5/7/2004	2	1	P									1/23/2008	<1	<1	P	P	None
12	S	room 7					6/9/2005								1/23/2008	<1	<1	P	P	None
13	S/B	nurse's office					6/9/2005	<1	<1	P					1/23/2008	<1	<1	P	P	None
15	S	teacher wk rm	5/7/2004	<1	<1	P									1/23/2008		<1	P	P	None
16	S	room 5					6/9/2005				5/15/2006	<1	<1	P	1/23/2008	<1	<1	P	P	None
17	S	room 1					6/9/2005	<1	<1	P					1/23/2008	<1	<1	P	P	None
18	S	room 2					6/9/2005	<1	<1	P					1/23/2008	<1	<1	P	P	None
19	S	room 16	5/7/2004	<1	1	P									1/23/2008	<1	<1	P	P	None
21	S	kitchen	5/7/2004	<1	<1	P									1/23/2008	<1	<1	P	P	None
22	S	room 12, art					6/9/2005	<1	<1	P					1/23/2008	<1	<1	P	P	None
23	S	room 11					6/9/2005	<1	<1	P					1/23/2008	<1	<1	P	P	None
24	S	room 10					6/9/2005	<1	<1	P					1/23/2008	<1	<1	P	P	None
25	S	room 5					6/9/2005	<1	<1	P					1/23/2008	<1	<1	P	P	None
26	S	room 4					6/9/2005	<1	<1	P					1/23/2008	<1	<1	P	P	None
27	S	room 14					6/9/2005	<1	<1	P					1/23/2008	<1	<1	P	P	None
28	S	room 15					6/9/2005	1	<1	P					1/23/2008	<1	<1	P	P	None
29	S	kitchen, handwash													1/23/2008	<1	<1	P	P	None
30	S	Studio (cooking classroom)													1/23/2008	<1	<1	P	P	None
31	S	resource													1/23/2008	<1	<1	P	P	None
32	S	room 3, office													1/23/2008	<1	<1	P	P	None
33	S	room 13 -- north wall													1/23/2008	<1	<1	P	P	None
34	S	room 13, south-east													1/23/2008	<1	<1	P	P	None
35	S	room 13, south-west													1/23/2008	<1	<1	P	P	None
36	S	room 13, middle													1/23/2008	<1	<1	P	P	None
37	S	room 13, west wall													1/23/2008	<1	<1	P	P	None
38	S	room 10, west													1/23/2008	<1	<1	P	P	None
39	S	room 10, middle													1/23/2008	<1	<1	P	P	None
40	S	room 10, south													1/23/2008	<1	<1	P	P	None
41	S	room 10, east													1/23/2008	<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				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 30s	Pass/Fail	Sampled	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
01	B	hallway					6/9/2005								1/23/2008	0.376	0.05	P	P	None
02	B	hallway	5/7/2004	0.046		P	6/9/2005		0.014	P					1/23/2008	0.324	0.283	P	P	None
03	B	hallway					6/9/2005	0.13	0.004	P					1/23/2008	0.282	0.285	P	P	None
06	B	hallway					6/9/2005								1/23/2008	0.39	0.056	P	P	None
08	B	hallway, left					6/9/2005	0.04	0.039	P					1/23/2008	0.312	0.286	P	P	None
09	B	hallway, right					6/9/2005	0.04	0.007	P					1/23/2008	0.283	0.28	P	P	None
10	S	room 9					6/9/2005	0.23	0.25	P					1/23/2008	0.328	0.271	P	P	None
11	S/B	room 8, library	5/7/2004	0.089	0.003	P	6/9/2005		0.004	P					1/23/2008	0.287	0.338	P	P	None
12	S	room 7					6/9/2005								1/23/2008	0.3	0.347	P	P	None
13	S/B	nurse's office					6/9/2005	0.044	0.042	P					1/23/2008	0.309	0.298	P	P	None
15	S	teacher wk rm	5/7/2004	0.007		P	6/9/2005		0.004	P					1/23/2008		0.063	P	P	None
16	S	room 5					6/9/2005				5/15/2006	0.008	0.002	P	1/23/2008	0.292	0.241	P	P	None
17	S	room 1					6/9/2005	0.03	0.014	P					1/23/2008	0.308	0.299	P	P	None
18	S	room 2					6/9/2005	0.12	<0.002	P					1/23/2008	0.058	0.044	P	P	None
19	S	room 16	5/7/2004	0.002	<0.002	P	6/9/2005		<0.002	P					1/23/2008	0.282	0.332	P	P	None
21	S	kitchen	5/7/2004	0.01		P	6/9/2005		0.016	P					1/23/2008	0.27	0.277	P	P	None
22	S	room 12, art					6/9/2005	0.039	0.002	P					1/23/2008	0.317	0.289	P	P	None
23	S	room 11					6/9/2005	0.066	0.023	P					1/23/2008	0.31	0.303	P	P	None
24	S	room 10					6/9/2005	0.049	0.003	P					1/23/2008	0.335	0.06	P	P	None
25	S	room 5					6/9/2005	0.035	0.002	P					1/23/2008	0.298	0.112	P	P	None
26	S	room 4					6/9/2005	0.012	<0.002	P					1/23/2008	0.218	0.127	P	P	None
27	S	room 14					6/9/2005	0.013	<0.002	P					1/23/2008	0.364	0.042	P	P	None
28	S	room 15					6/9/2005	0.012	0.002	P					1/23/2008	0.257	0.261	P	P	None
29	S	kitchen, handwash													1/23/2008	0.302	0.116	P	P	None
30	S	Studio (cooking classroom)													1/23/2008	0.253	0.334	P	P	None
31	S	resource													1/23/2008	0.126	0.316	P	P	None
32	S	room 3, office													1/23/2008	0.14	0.166	P	P	None
33	S	room 13 -- north wall													1/23/2008	0.301	0.314	P	P	None
34	S	room 13, south-east													1/23/2008	0.326	0.319	P	P	None
35	S	room 13, south-west													1/23/2008	0.339	0.313	P	P	None
36	S	room 13, middle													1/23/2008	0.335	0.304	P	P	None
37	S	room 13, west wall													1/23/2008	0.347	0.315	P	P	None
38	S	room 10, west													1/23/2008	0.325	0.056	P	P	None
39	S	room 10, middle													1/23/2008	0.455	0.084	P	P	None
40	S	room 10, south													1/23/2008	0.36	0.081	P	P	None
41	S	room 10, east													1/23/2008	0.352	0.095	P	P	None

Table 5. Iron Test Results

Test Results (Iron/Fe, ppm)																								
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 2m	Pass/Fail	Sampled	1st Draw	Flush 2m	Pass/Fail	Sampled	1st Draw	Flush 2m	Pass/Fail	Sampled	1st Draw	Flush 2m	Pass/Fail	Sampled	1st Draw	Flush 30s	Pass/Fail	Pass/Fail	Status
01	B	hallway													10/14/2005								n/a	None
02	B	hallway	5/7/2004	0.2		P	9/16/2004	0.08	0.12	P													P	None
03	B	hallway					9/16/2004	0.85	0.13		6/9/2005		0.08	P									P	None
06	B	hallway																					n/a	None
08	B	hallway, left					9/16/2004	0.2	0.18	P	6/9/2005		0.06	P									P	None
09	B	hallway, right					9/16/2004	0.35	2.8		6/9/2005		0.05	P									P	None
10	S	room 9					9/16/2004	4.5	0.25		6/9/2005		1.6		10/14/2005								n/a	None
11	S/B	room 8, library	5/7/2004	2.9	1.5		9/16/2004	1.7	0.66		6/9/2005		1.2		10/14/2005		<0.05	P					P	None
12	S	room 7													10/14/2005								n/a	None
13	S/B	nurse's office					9/16/2004	0.65	0.16														n/a	None
15	S	teacher wk rm	5/7/2004	0.18		P					6/9/2005		<0.05	P									P	None
16	S	room 5													10/14/2005								n/a	None
17	S	room 1					9/16/2004	0.35	0.16	P	6/9/2005		0.16	P									P	None
18	S	room 2					9/16/2004	1.2	0.22		6/9/2005		0.1	P									P	None
19	S	room 16	5/7/2004	0.18	0.7		9/16/2004	1.6	0.21		6/9/2005				10/14/2005								n/a	None
21	S	kitchen	5/7/2004	0.12		P					6/9/2005		0.05	P									P	None
22	S	room 12, art					9/16/2004	0.34	0.16	P	6/9/2005		0.25	P									P	None
23	S	room 11					9/16/2004	0.55	0.21		6/9/2005		0.16	P									P	None
24	S	room 10					9/16/2004	0.38	0.11	P	6/9/2005		0.05	P									P	None
25	S	room 5					9/16/2004	0.23	0.12	P	6/9/2005		<0.05	P									P	None
26	S	room 4					9/16/2004	0.23	0.11	P	6/9/2005		<0.05	P									P	None
27	S	room 14					9/16/2004	1.4	0.16		6/9/2005		<0.05	P					2/2/2006	1.06			n/a	None
28	S	room 15					9/16/2004	0.2	0.13	P	6/9/2005		<0.05	P									P	None
29	S	kitchen, handwash																					n/a	None
30	S	Studio (cooking classroom)																					n/a	None
31	S	resource																					n/a	None
32	S	room 3, office																					n/a	None
33	S	room 13 -- north wall																					n/a	None
34	S	room 13, south-east																					n/a	None
35	S	room 13, south-west																					n/a	None
36	S	room 13, middle																					n/a	None
37	S	room 13, west wall																					n/a	None
38	S	room 10, west																					n/a	None
39	S	room 10, middle																					n/a	None
40	S	room 10, south																					n/a	None
41	S	room 10, east																					n/a	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
0	SE	sink in corner of boiler room	Arsenic	23-Jan-08	2 ppb	P
0	SE	sink in corner of boiler room	Cadmium	23-Jan-08	1 ppb	P
0	SE	sink in corner of boiler room	Copper	23-Jan-08	0.006 ppm	P
0	SE	sink in corner of boiler room	E coli	7-May-04	<1 Colonies	P
0	SE	sink in corner of boiler room	Iron	23-Jan-08	<0.05 ppm	P
0	SE	sink in corner of boiler room	Lead	23-Jan-08	1 ppb	P
0	SE	sink in corner of boiler room	Total Coliforms	23-Jan-08	<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.