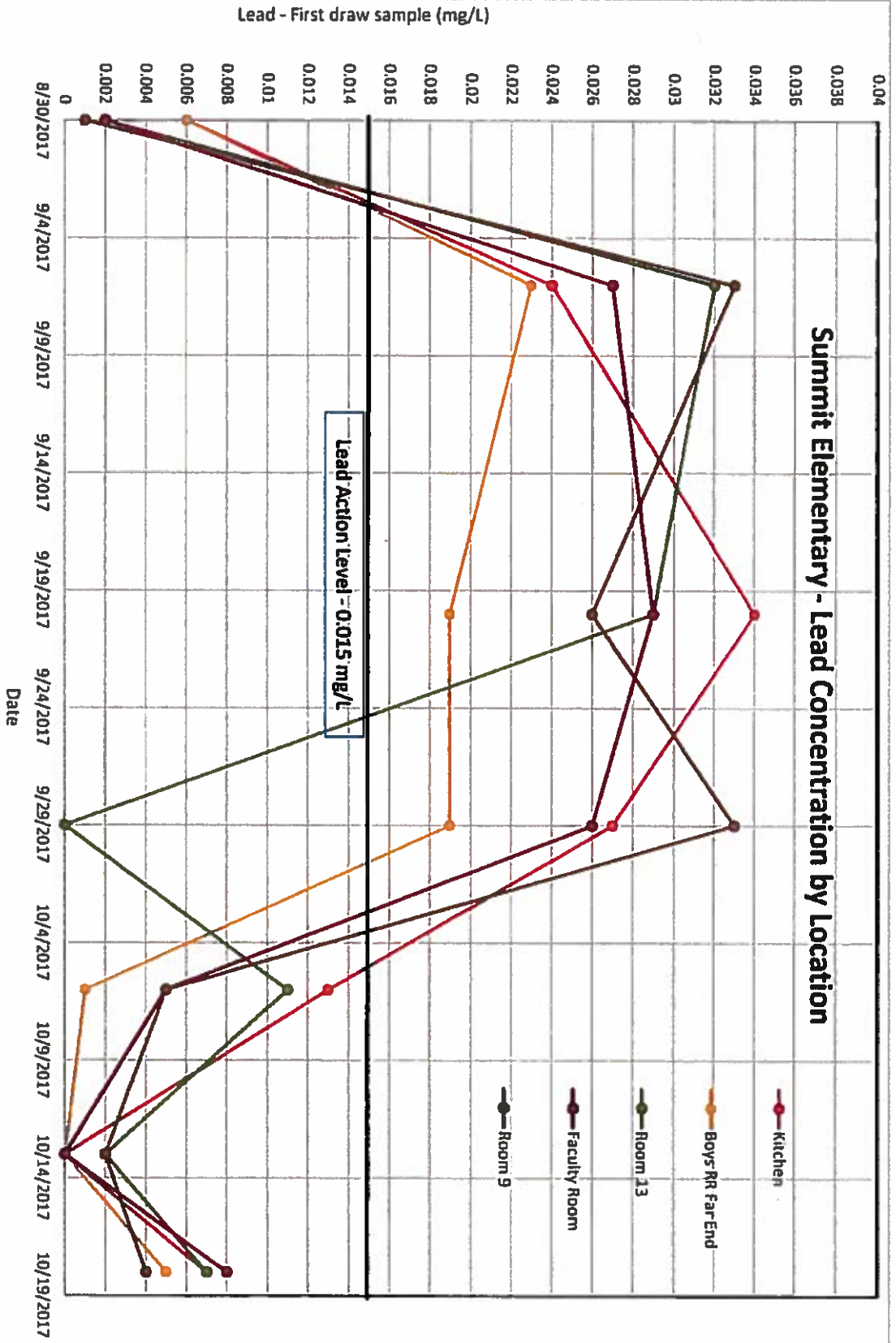


## **Summit Elementary Water Quality Testing Summary**

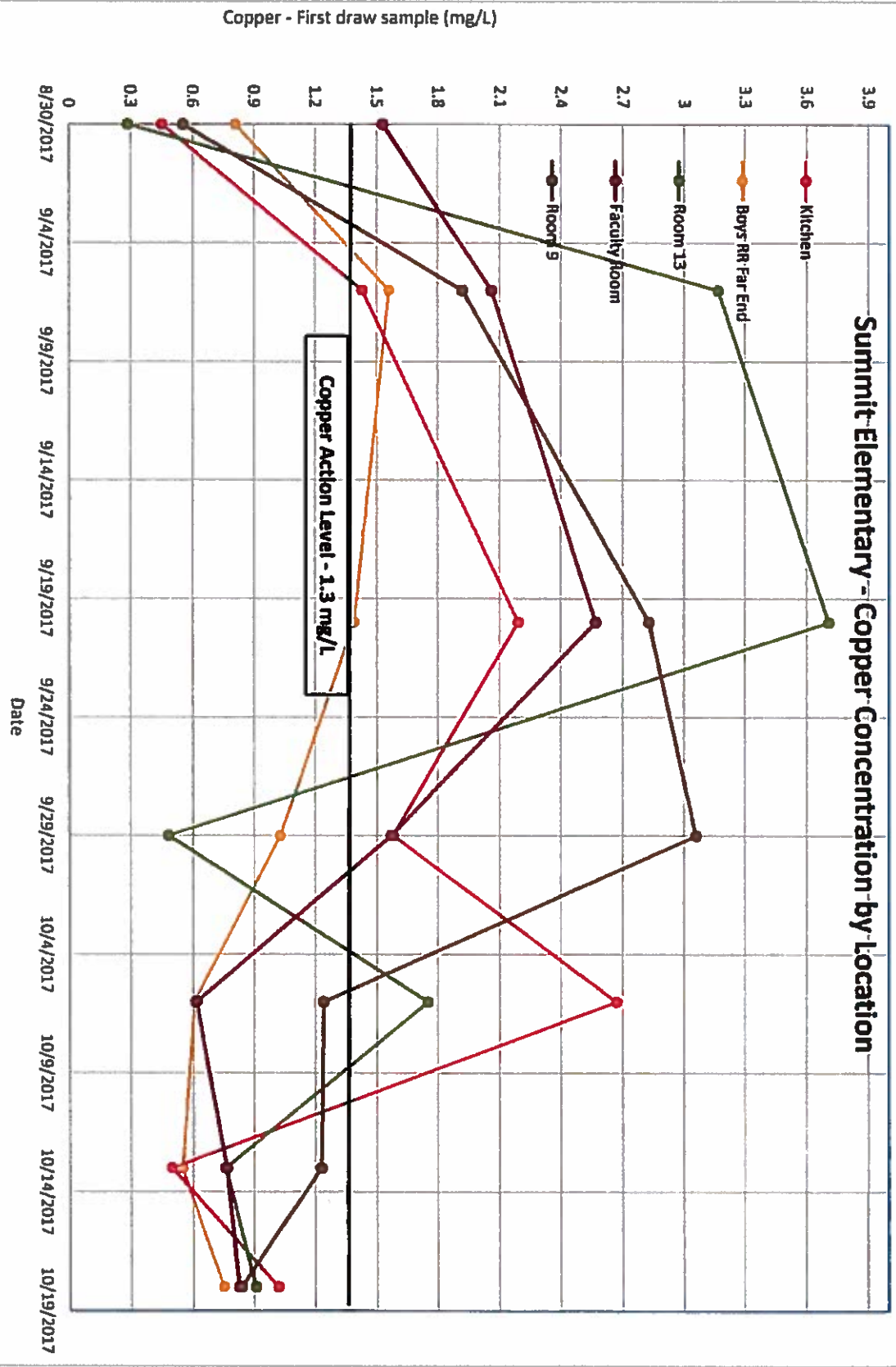
### **BASD School Board Meeting November 13, 2017**

- Water service from PA American was established on August 7.
- Water quality parameter testing (i.e. pH and residual chlorine) was initiated on August 10. This was done to characterize the water quality and to determine when the water quality had stabilized in the school.
- Testing of the lead and copper levels at 5 selected taps within the school was initiated August 30.
- Sampling was limited to these 5 sites in order to determine when the plumbing in the school had been "passivated" by the corrosion inhibition chemical used by PA American.
- We have conducted sampling 7 times from August 30 through October 18.
- Sampling conducted on September 20 and October 6 used a split sampling technique to determine if the lead and copper levels being detected were from the fixtures themselves or the supply piping leading to the fixtures.
- The split sampling indicated that the existing fixtures were the primary source of the lead and copper being detected.
- BASD staff replaced the 5 fixtures at the test sites prior to the October 6 sampling event.
- Sampling on October 6 showed 3 sites still above the lead Action Level (AL) in the first draw samples. The samples showing AL exceedances were impacted by the fixture replacement - as evidenced by air in the tap during sampling or discoloration of the first draw water.
- Samples taken on October 13 and 18 were all under the lead and copper ALs.
- Some of the October 18 results were slightly higher than the October 13 samples. It is not unusual for there to be some slight variation between sampling events and this slight increase is not cause for concern. However, it will be important to verify these lead and copper results remain under their ALs.
- All of the drinking water fixtures in the school have now been replaced. Sampling will take place on November 15 to document the lead and copper levels in the rest of the fixtures in the school.
- An ongoing sampling program will be established to check on lead and copper levels in the school drinking water fixtures going forward.

### Summit Elementary - Lead Concentration by Location



# Summit Elementary - Copper Concentration by Location



BASD Summit Elementary - PAWC Feed Water - Water Quality Results

Date	Location	pH	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Lead (mg/L)	Copper (mg/L)	Comments
8/10/2017	Meter Vault				<0.001	0.015	
8/10/2017	Kitchen				0.018	0.22	
8/10/2017	Faculty Break Room				0.001	0.137	
8/10/2017	Room 9				0.011	0.181	
8/10/2017	Room 13				0.028	0.227	
8/10/2017	Boys RR Far End				0.003	0.166	
8/16/2017	Meter Vault	7.53	0.03	0.01	N/A	N/A	
8/16/2017	Boys Room	8.24	0	0.01	N/A	N/A	
8/16/2017	Room 13	8.3	0.02	0.04	N/A	N/A	
8/16/2017	Faculty Room	8.23	0.01	0.02	N/A	N/A	
8/16/2017	Room 9	7.75	0	0	N/A	N/A	
8/16/2017	Meter Vault - Flushed	7.82	0.06	0.03	N/A	N/A	
8/16/2017	Boys Room - Flushed	8.39	0	0.01	N/A	N/A	
8/16/2017	Room 13 - Flushed	8.45	0.02	0.02	N/A	N/A	
8/16/2017	Faculty Room - Flushed	8.43	0.02	0.07	N/A	N/A	
8/16/2017	Room 9 - Flushed	8.43	0.02	0.01	N/A	N/A	
8/24/2016	Boiler Room	7.41	0	0.01	N/A	N/A	
8/24/2016	Room 9	7.34	0.01	0.02	N/A	N/A	
8/24/2016	Boys RR Far End	7.12	0.05	0.05	N/A	N/A	
8/24/2016	Room 13	7.25	0.11	0.22	N/A	N/A	
8/24/2016	Faculty Room	7.16	0.11	0.67	N/A	N/A	
8/24/2016	Kitchen	7.06	0.01	0.04	N/A	N/A	
8/24/2016	Boiler Room - Flushed	7.14	0.11	1.58	N/A	N/A	
8/24/2016	Room 9 - Flushed	7.21	0.93	1.41	N/A	N/A	
8/24/2016	Boys RR Far End - Flushed	7.23	0.27	0.79	N/A	N/A	

Date	Location	pH	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Lead (mg/L)	Copper (mg/L)	Comments
8/24/2016	Room 13 - Flushed	7.17	0.2	1.53	N/A	N/A	
8/24/2016	Faculty Room - Flushed	7.1	0.3	1.51	N/A	N/A	
8/24/2016	Kitchen - Flushed	7.02	1.05	1.48	N/A	N/A	
8/24/2016	Meter Vault	7.07	0.84	1.63	N/A	N/A	
8/30/2017	Boiler Room	7.5	0.07	0.2			
8/30/2017	Kitchen	7.45	0.03	0.03	0.006	0.452	
8/30/2017	Boys RR Far End	7.34	0	0.04	0.006	0.809	
8/30/2017	Room 13	7.43	0.45	0.48	0.002	0.285	
8/30/2017	Faculty Room	7.44	0.26	0.83	0.002	1.53	
8/30/2017	Room 9	7.47	0	0.02	0.001	0.554	
8/30/2017	Boiler Room - Flushed	--	0.35	1.4	N/A	N/A	
8/30/2017	Kitchen - Flushed	--	0.09	1.35	N/A	N/A	
8/30/2017	Room 9 - Flushed	--	0.46	1.3	N/A	N/A	
8/30/2017	Boys RR Far End - Flushed	--	0.08	0.74	N/A	N/A	
9/6/2017	Boiler Room	7.27	0.03	0.09	--	--	
9/6/2017	Kitchen	7.29	0.09	0.2	0.024	1.43	
9/6/2017	Boys RR Far End	7.12	0.04	0.05	0.23	1.56	
9/6/2017	Room 13	7.32	0.51	0.41	0.032	3.17	
9/6/2017	Faculty Room	7.15	0.15	0.89	0.027	2.06	
9/6/2017	Room 9	7.3	0.04	0.07	0.033	1.92	
9/20/2017	Boiler Room - 1st draw	7.1	0.39	0.55	0.001	0.235	
9/20/2017	Boiler Room - 2nd draw	--	--	--	<0.001	0.257	
9/20/2017	Kitchen - 1st draw	7.1	0	0.008	0.034	2.19	
9/20/2017	Kitchen - 2nd draw	--	--	--	<0.001	0.298	
9/20/2017	Room 9 - 1st draw	7.17	0.02	0.03	0.026	2.83	

Date	Location	pH	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Lead (mg/L)	Copper (mg/L)	Comments
9/20/2017	Room 9 - 2nd draw	--	--	--	0.005	1.47	
9/20/2017	Boys RR Far End - 1st draw	7.15	0.02	0.07	0.019	1.39	
9/20/2017	Boys RR Far End - 2nd draw	--	--	--	<0.001	0.588	
9/20/2017	Room 13 - 1st draw	7.16	0.2	0.26	0.029	3.71	1st draw sample tinted yellow
9/20/2017	Room 13 - 2nd draw	--	--	--	<0.001	0.32	2nd draw sample clear
9/20/2017	Faculty Room - 1st draw	7.2	0.11	0.69	0.029	2.57	
9/20/2017	Faculty Room - 2nd draw	--	--	--	0.004	1.63	
9/29/2017	Boiler Room	7.13	0.02	0.04	0.003	0.212	
9/29/2017	Kitchen	7.17	0.05	0.1	0.027	1.58	
9/29/2017	Boys RR Far End	7.18	0.05	0.03	0.019	1.03	
9/29/2017	Room 13	7.1	0.11	0.15	<0.001	0.483	
9/29/2017	Faculty Room	7.17	0.08	0.04	0.026	1.57	
9/29/2017	Room 9	7.16	0.02	0.01	0.033	3.06	
10/6/2017	Boiler Room	7.09	0.05	0.1	0.016	0.678	
10/6/2017	Kitchen - 1st draw	7.11	0	0.03	0.013	2.67	1st draw had a lot of air
10/6/2017	Kitchen - 2nd draw				0.005	1.05	
10/6/2017	Room 9 - 1st draw	7.11	0	0.04	0.005	1.24	
10/6/2017	Room 9 - 2nd draw				0.001	1.07	
10/6/2017	Boys Room - 1st draw	7.12	0.01	0.27	0.001	0.608	Slight tint on first draw
10/6/2017	Boys Room - 2nd draw				<0.001	0.457	
10/6/2017	Room 13 - 1st draw	7.11	0.07	0.44	0.011	1.75	Slight tint on first draw
10/6/2017	Room 13 - 2nd draw				<0.001	0.304	
10/6/2017	Faculty Room - 1st draw	7.17	0.98	1.57	0.005	0.619	
10/6/2017	Faculty Room - 2nd draw				<0.001	0.422	
10/6/2017	Boiler Room - Flushed		0.17	1.53			

Date	Location	pH	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Lead (mg/L)	Copper (mg/L)	Comments
10/13/2017	Boiler Room	7.12	0.04	0.67	0.008	1.17	
10/13/2017	Kitchen - 1st draw	7.11	0.57	0.67	<0.001	0.499	
10/13/2017	Kitchen - 2nd draw				<0.001	0.185	
10/13/2017	Room 9 - 1st draw	7.12	0.06	0.15	0.002	1.23	
10/13/2017	Room 9 - 2nd draw				<0.001	0.747	
10/13/2017	Boys Room - 1st draw	7.15	0.28	0.31	<0.001	0.549	
10/13/2017	Boys Room - 2nd draw				<0.001	0.448	
10/13/2017	Room 13 - 1st draw	7.15	0.26	0.52	0.002	0.76	
10/13/2017	Room 13 - 2nd draw				<0.001	0.224	
10/13/2017	Faculty Room - 1st draw	7.16	1.01	1.46	<0.001	0.766	
10/13/2017	Faculty Room - 2nd draw				<0.001	0.525	
10/18/2017	Boiler Room - 1st draw	7.29	0.17	0.94	0.001	0.213	
10/18/2017	Boiler Room - 2nd draw				<0.001	0.177	
10/18/2017	Kitchen - 1st draw	7.3	0.26	0.77	0.007	1.02	
10/18/2017	Kitchen - 2nd draw				<0.001	0.213	
10/18/2017	Room 9 - 1st draw	7.3	0.15	0.16	0.004	0.839	
10/18/2017	Room 9 - 2nd draw				<0.001	0.539	
10/18/2017	Boys Room - 1st draw	7.33	0.28	0.29	0.001	0.753	
10/18/2017	Boys Room - 2nd draw				<0.001	0.361	
10/18/2017	Room 13 - 1st draw	7.31	0.66	0.73	0.007	0.909	
10/18/2017	Room 13 - 2nd draw				<0.001	0.179	
10/18/2017	Faculty Room - 1st draw	7.33	0.79	1.28	0.008	0.827	
10/18/2017	Faculty Room - 2nd draw				0.001	0.819	
10/18/2017	Meter Vault	7.24	0.78	1.86	<0.001	0.111	