

Dustin Fisk

From: Amanda Enbysk <aenbysk@efulcrum.net>
Sent: Tuesday, April 11, 2017 9:13 AM
To: Keith Colee
Cc: Dustin Fisk; Ryan Mathews
Subject: Drinking Water Sampling - Southridge High School Follow-Up Results
Attachments: Rpt_1704066_Kennewick_SD_Drinking_Water_-_Southridge_HS_Final_v1.pdf

Keith-

Fulcrum received results of follow-up drinking water sampling conducted 4/5/2017 post water cooler replacement and aggressive flush at Southridge High School. A summary of results is below and analytical results from Fremont Analytical are attached.

Sample Identification and Location	Type of Fixture	Initial Copper Results (µg/L)	Follow-Up Copper Results (µg/L)
SHS4517-P-KF-01: Food prep east in northern partition of kitchen	Kitchen Faucet	1,700	1,040
SHS4517-P-WC-06: Music hallway, left fixture	Water Cooler Fountain	2,000	371
SHS4517-P-WC-08: Main Hallway, rightmost fixture	Water Cooler Fountain	2,000	511
SHS4517-P-WC-09: 1st floor of Area B, north (right) fixture	Water Cooler Fountain	2,200	281
SHS4517-P-WC-10: 1st floor of Area B, south (left) fixture	Water Cooler Fountain	2,000	1,350
SHS4517-P-WC-13: 2nd floor of Area B, south (left) fixture	Water Cooler Fountain	1,600	107
SHS4517-P-CF-14: Area B, Classroom 210	Classroom Faucet	1,600	656
SHS4517-P-WC-15: Upstairs hallway between B and C, right fixture	Water Cooler Fountain	1,800	2,210
SHS4517-P-WC-16: 2nd floor of Area C, north (right) fixture	Water Cooler Fountain	1,800	-
SHS4517-P-WC-17: 2nd floor of Area C, south (left) fixture	Water Cooler Fountain	2,100	119
SHS4517-P-WC-19: 1st floor of Area C, north (right) fixture	Water Cooler Fountain	2,100	226
SHS4517-P-OF-23: Library Workroom	Office Faucet	1,700	1,050
SHS4517-P-WC-25: 1st floor of Area D, south (left) fixture	Water Cooler Fountain	1,600	2,280
SHS4517-P-WC-29: 2nd floor of Area D, north (right) fixture	Water Cooler Fountain	2,000	2,200
SHS4517-P-WC-30: 2nd floor of Area D, south (left) fixture	Water Cooler Fountain	1,900	269
SHS4517-P-WC-31: Upstairs hallway between C and D, left fixture	Water Cooler Fountain	2,500	214
SHS4517-P-DF-35: Main gym entrance west, leftmost fixture	Water Cooler Fountain	1,900	2,200
SHS4517-P-DF-36: Main gym entrance east, center fixture	Drinking Fountain	2,400	342
SHS4517-P-DF-37: Wrestling/gymnastics	Drinking Fountain	1,600	1,110
SHS4517-P-WC-38: Lower level gym hallway (push button fixture)	Water Cooler Fountain	2,000	1,320
SHS4517-P-WC-39: Women's PE Lockers	Water Cooler Fountain	2,000	113
SHS4517-P-CF-40: Laboratory Spike - labeled Area G, Classroom 125	Lead and Copper Spike	1,600	1,330
SHS4517-P-CF-41: Laboratory Blank - labeled Area H, Classroom 209	Distilled Water Blank	<10	<0.5
EPA Action Level		1,300	1,300

The District replaced many of the water coolers initially above the action level with bottle fill water coolers with an inline filter. All other fixtures received a 30 minute aggressive flush.

Results indicate the filtered water coolers are effective at reducing copper concentrations below the action level (or spike concentration) for all replaced fixtures. In addition, the aggressive flush was effective on all faucets.

All fixtures that remain above the action level, WC-10, WC-15, WC-25, WC-29, and DF-35, are water coolers/drinking fountains that did not get replaced with the filtered fountains and are still reporting with concentrations above the action level.

The water cooler WC-16, located in the second floor of Area C on the right, was out of service (had no water flow) and so unable to be sampled. As such, it also remains above the action level.

Fulcrum recommends the fixtures still reporting above the action level remain out of service until further testing or remediation is complete.

Please feel free to contact me with any questions.

Thank you,

Amanda Enbysk, GIT
Environmental Geologist
Fulcrum Environmental Consulting, Inc.
406 North Second Street
Yakima, WA 98901
P: 509.574.0839 F: 505.575.8453

Disclaimer: The information contained in this message, including any attachments and correspondence may be privileged, confidential, and protected from disclosure. If you are not the intended recipient, please be advised that you are legally prohibited from retaining, using, copying, distributing, or otherwise disclosing this information in any manner. If you have received this email message in error, please reply immediately to the sender and delete all copies of this message and any attachments. Thank you.