
RE: Water Testing for Howard

From : Dexter Rummel <rummel_d@4j.lane.edu> Mon, Jan 30, 2017 02:53 PM
Subject : RE: Water Testing for Howard
To : 'Allan Chinn' <chinn@4j.lane.edu>
Cc : 'Ryan Spain' <spain_r@4j.lane.edu>, Richard Miller <miller_r@4j.lane.edu>

Hi Allan,

Here are the findings for our water at classroom sink faucets:

1. There is a flow restriction device in the sink that limits flow to 1.5gpm.
2. The water is “cloudy” with air bubbles that take roughly 2.5 to 3 minutes to dissipate.
3. There is no sediment in the water.

We have tested overall about half the sinks, removing and verifying there is a flow restriction (FR) device at each one. These FRs have very small openings that the water is forced through. This is what is creating the turbulence and thus small air bubbles being “entrained” in the water. This is why you can fill up something from the bubbler adjacent to the sinks and its relatively clear. If you remove the FR then the water clears immediately coming from the faucet. There is no cause for concern and the earlier video I sent out explains it better than I can.

Now I anticipate there will be questions like why did it just occur and wasn't like this before? The short answer is they might have not noticed it before as its not easily seen just by looking at the stream, but you have to fill something up that is clear and clean to see properly. Secondly the supply pressure from EWEB varies throughout the year and its possible it's a bit higher right now. Higher water pressure over the flow restriction (essentially and orifice flow restrictor) results in more turbulence. Simplest comparison is a fire hydrant being clear water and increasing in turbulence as the valve is opened up, eventually ending up in a very turbulent flow.

With that background information we are in discussion with the sink faucet manufacturer to understand why the FR creates so many air bubbles. Its supposed to be relatively bubble free stream of water so we are seeing what can be done, if anything. One thing teachers can do to help is to not open the handle on the faucet as far and the water should contain less air that way.

I left the FR off in room B103 while I was there Friday. That teacher should notice a big difference in air bubbles and more water flow...too much if both hot and cold are operated at the same time.

We are talking within facilities on the next steps forward and will keep you posted if something can be done and still limit water flow since we don't need full flow. If not then we will discuss removing the FR altogether.

Bad tasting water is a hard comparison – I've tested water out there along with our district plumbers and they didn't notice anything abnormal. I have no method of testing for bad tasting when the same plumbing line feeds multiple classrooms all receiving the same water. Its EWEB water, unfiltered and untreated throughout the building. This can be attributed to someone with more sensitivity to taste than the majority have.

Hope this helps,

Dexter Rummel
Eugene School District 4J
Cell: 541-228-1726

From: Dexter Rummel [mailto:rummel_d@4j.lane.edu]
Sent: Wednesday, January 25, 2017 4:07 PM
To: 'Allan Chinn' <chinn@4j.lane.edu>
Cc: 'Ryan Spain' <spain_r@4j.lane.edu>
Subject: RE: Water Testing for Howard

Wait for us to report back to you. Assuming all comes back okay its not necessary to have other staff worry.

Dexter Rummel
Eugene School District 4J
Cell: 541-228-1726

From: Allan Chinn [<mailto:chinn@4j.lane.edu>]
Sent: Wednesday, January 25, 2017 3:40 PM
To: Dexter Rummel <rummel_d@4j.lane.edu>
Cc: Ryan Spain <spain_r@4j.lane.edu>
Subject: Re: Water Testing for Howard

My main concern is we did not have any white water until just recently, which is well after the lead testing and EWEB tests, so something has changed.

I also checked with staff in B105 and their water still tastes bad. B101 and C201 also reported the white water.

Should I check with all staff if they're seeing this or wait for the plumber's report?

Allan

Sent from my iPhone

On Jan 25, 2017, at 3:29 PM, Dexter Rummel <rummel_d@4j.lane.edu> wrote:

Allan,

Please note that I've removed the teaching staff off this response so we don't continue a massive email string unnecessarily. You can share the reports and findings with your staff as you see fit.

We have been diligent on this request received 1/19/17 of the cloudy water and had our original plumbing contractor review this upon the initial email and they came out the same day or Friday of last week. I received the following report back from them on Monday 1/23:

- B104 white water. The aerator in the gooseneck is causing aeration in the water causing air to be entrained in the water. We removed the aerator the water flowed clear. We reinstalled it and it had entrained air. If you let the glass sit for a moment the air rises and the water is clear. This is not a warranty issue. It is also

worth noting that the bubbler water is clear as it does not have a aerator. There was no sediment present when we investigated.

4J Facilities has a work order for a district plumber to inspect the water for sediment and flush the plumbing lines if its needed. The goal is for the district plumber to get that done this week and report back to facilities on their findings.

As I mentioned previously the entire building was verified potable before we handed it over to you and before EWEB would allow full service to the school. Please find the attached report from a credited lab that performed the sampling. Any sediment in the water is likely from EWEB and we have little control over their water supply.

After the plumber does their work we are intending to chat and respond to your testing request accordingly.

Please include Ryan on further responses on this subject.

Thank you,

Dexter Rummel
Eugene School District 4J
Cell: 541-228-1726

From: Allan Chinn [<mailto:chinn@4j.lane.edu>]
Sent: Wednesday, January 25, 2017 2:52 PM
To: Dexter Rummel <rummel_d@4j.lane.edu>
Cc: Lupe Callihan <callihan@4j.lane.edu>; Suzy Rock <rock@4j.lane.edu>
Subject: Re: Water Testing for Howard

Hi Dexter,

Teachers report there is sediment in the water.

What is the timeline for district plumbers to take care of this?

Thanks,

Allan

Allan Chinn
Principal, Howard Elementary School
Eugene School District 4J
chinn@4j.lane.edu, (541) 790-4900
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From: "Suzy Rock" <rock@4j.lane.edu>
To: "Allan Chinn" <chinn@4j.lane.edu>, "Lupe Callihan" <callihan@4j.lane.edu>
Sent: Wednesday, January 25, 2017 2:24:00 PM
Subject: Fwd: Water Testing for Howard

Allan,

Any news on this? I'm still concerned about allowing my students drink water that has sediments in it until the district gets our water fixed.

Suzy

Suzy Rock

5th Grade Teacher, Howard Elementary School

Eugene School District 4J

rock@4j.lane.edu | 541-790-4918 (direct classroom line)

<http://blogs.4j.lane.edu/suzyrock/>

From: "Dexter Rummel" <rummel_d@4j.lane.edu>
To: "Allan Chinn" <chinn@4j.lane.edu>, "Lupe Callihan" <callihan@4j.lane.edu>
Cc: "Suzy Rock" <rock@4j.lane.edu>
Sent: Tuesday, January 24, 2017 7:01:15 AM
Subject: RE: Water Testing for Howard

The water is EWEBs and they are responsible for providing safe potable water. This is a new school with proper pre-use testing and even follow up lead testing. All results came back clean, however I'll talk to Facilities today and see what they want to do in regards to removing the screen on the two rooms listed and verifying no debris. The same thing can be done with time.

Here is a small writup on what I suspect: <https://water.usgs.gov/edu/qa-chemical-cloudy.html>

Thanks,

Dexter Rummel
Eugene School District 4J
Cell: 541-228-1726

From: Allan Chinn [<mailto:chinn@4j.lane.edu>]
Sent: Monday, January 23, 2017 6:45 PM
To: Lupe Callihan <callihan@4j.lane.edu>; Dexter Rummel <rummel_d@4j.lane.edu>
Cc: Suzy Rock <rock@4j.lane.edu>
Subject: Re: Water Testing for Howard

Dexter, thoughts on the request below?

Allan

Sent from my iPhone

On Jan 23, 2017, at 6:29 PM, Lupe Callihan <callihan@4j.lane.edu> wrote:

Thanks Allan, I dont bring my husbands plumber tools to school nor do I know what to do with them while teaching kids... Should we have kids use the sinks at all? Could we get bottled water for them until the District figures out if they are safe?

Lupe Callihan, 5th Grade Teacher
Howard Elementary
(541) 790-4900

----- On Jan 23, 2017, at 10:40 AM, Allan Chinn <chinn@4j.lane.edu> wrote:

Hi Dexter,

Teachers probably shouldn't be messing with faucets or have been trained to do so.

Since we're doing it for the entire wing, can you send someone from facilities to take care of it?

If you remember, we also had issues earlier in the year with the water in B105 tasting weird.

Thanks,

Allan

*Allan Chinn
Principal, Howard Elementary School
Eugene School District 4J
chinn@4j.lane.edu, (541) 790-4900
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From: "Dexter Rummel" <rummel_d@4j.lane.edu>
To: "Allan Chinn" <chinn@4j.lane.edu>
Cc: "Suzy Rock" <rock@4j.lane.edu>, "Lupe Callihan" <callihan@4j.lane.edu>
Sent: Monday, January 23, 2017 10:34:53 AM
Subject: RE: Water Testing for Howard

Allan,

All of B wing is on the same potable water supply after it splits from the C wing. The only difference could be a different screen, cleaner screen, etc. Please have the staff remove the screen at the faucet (where water comes out) and re-fill a clear container. The screen introduces air which becomes entrained with the water requiring time to clarify. As long as there isn't sediment in the bottom of the container there is no need to worry. If there is sediment then please repeat for all the classrooms in B wing and then we can talk about sampling.

FYI the building was sampled before EWEB would sign off on allowing their service to the building. I can't guarantee they didn't perform a shutdown and introduce sediment into the water as that occurs throughout the year as required. They simply request that fixtures be flushed for a few minutes and your good to go.

Thanks,

Dexter Rummel
Eugene School District 4J
Cell: 541-228-1726

From: Allan Chinn [<mailto:chinn@4j.lane.edu>]

Sent: Saturday, January 21, 2017 6:51 AM

To: Dexter Rummel <rummel_d@4j.lane.edu>

Cc: Suzy Rock <rock@4j.lane.edu>; Lupe Callihan <callihan@4j.lane.edu>

Subject: Water Testing for Howard

Hi Dexter,

I emailed you earlier about this, but teachers have requested testing for the water in B103 and B104.

I have not check other classrooms in the wing, but the water is definitely not looking normal and may not be safe.

Attached are the photos I sent earlier if you can forward this to whoever is responsible for water testing.

Thank you,

Allan

Allan Chinn
Principal, Howard Elementary School
Eugene School District 4J
chinn@4j.lane.edu, (541) 790-4900

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From: "Lupe Callihan" <callihan@4j.lane.edu>

To: "Allan Chinn" <chinn@4j.lane.edu>

Cc: "Suzy Rock" <rock@4j.lane.edu>

Sent: Saturday, January 21, 2017 6:17:05 AM

Subject: water in classrooms?

Hi,

I wondered if the district had set up testing in our rooms? I had my kids put water into clear cups and the one from the main sink was cloudy but the fountain part was clearer???

Lupe Callihan, 5th Grade Teacher

Howard Elementary
(541) 790-4900

<HES Water Treatment Reports 1-28-2016.pdf>
