Thomas Harrington (adpce.ad)

From: Terry Long <eswwtp@yahoo.com>
Sent: Friday, February 2, 2024 8:22 PM
To: Thomas Harrington (adpce.ad); Richard Healey (adpce.ad); Leslie Allen-Daniel (adpce.ad)
Cc: Simon Wiley; Zane Lewis; Spencer Briggs
Subject: AR0021865 UPDATE - February 2 2024

Mr. Harrington,

Following is the update from the Eureka Springs wastewater treatment plant for Friday February 2 , 2024.

The effluent continues to look good, being clear and containing only very few solids particles with little to no discoloration as it should. Sludge wasting rates continue to be evaluated and adjusted to accommodate the decrease in both ambient temperature and the incoming BOD and TSS levels.

Concerning the status of the UV disinfection unit, no progress has been made this week. Both UV modules are still working although the communication between the control panel and one of the UV modules continues to be a problem. We will be in contact with the field service technician to get his advice on what we need to do next. We are still following our new SOP for SSOs at the wastewater treatment plant including notification of residents living downstream from the treatment plant as well as the general public and encouraging people to follow our Facebook page for further updates.

Concerning the elevated manhole that was reported to be leaking a few weeks ago, it still has not started leaking again. With the assistance of our engineering firm McClelland Engineers, we have located a company to come in and make the necessary repairs to the interior and exterior of the manhole to stop the leaks. That company is scheduled to be her on Tuesday February 6, 2024..

Concerning the overflow event at the main lift station that we experienced on Thursday January 11, 2024, the pumps in the lift station continue to be functional and operating as they should, so our wastewater influent continues to be again directed back through our Lakeside equipment as it should be. We are still not sure why or how the pumps lost prime, but we feel as though it was caused by one of two things, either old and cracked any dried out seals, or there is too much gap between the pump impeller and the pump housing. We have placed on order five(5) sets of O-Ring seals, one set for each of the four (4) pumps in the lift station and one set to hold in reserve as spare parts. We have also placed on order twelve (12) sets of adjustment shims which will allow us make the necessary adjustments to the alignment of the pump impellers and have a some shims in reserve for our spare parts inventory. As a preventative action, we also ordered four (4) air relief valves to replace the old relief valves as it is possible that the old relief valves failed to work properly, which resulted in the pumps losing prime and not operating. When these parts arrive, we are going to have a service tech come in to check the alignment gap of the impeller for each pump, replace all the seals and replace the air relief valves. We are continuing to monitor the lift station closely to make sure the pumps are working as they should.

We are continuing to collect samples from the creek three (3) times per week to monitor the fecal coliform levels in the creek upstream from our discharge, downstream from our discharge and at the point in the creek where our discharge enters the creek. So far we have collected and submitted

samples on four (4) days and have received results from two of those days, with the results showing less than 100 colonies per 100 ml, both upstream from our discharge as well as at the point of confluence of our discharge and the creek with the results showing elevated levels of fecal coliform further down stream from our treatment plant. We will continue to collect samples and have them analyzed according to the procedures previously set forth until given permission to stop.

Concerning the small leak at a pipe joint reported last week in the elevated portion of the influent line leading to the SBR basins, the leak still has not returned or re-appeared. We are continuing to make plans for a detailed inspection of this joint, and make any necessary repairs. We are continuing to monitor this location, as well as all the other pipe joints, to make sure there are no leaks.

During the ZOOM meeting held this week with members of ADEQ and the city of Eureka Springs, it was requested that we also start sharing the results of our fecal coliform testing as well as our Total Suspended Solids (TSS) in our weekly updates. Below are the test results for TSS and FECAL (both effluent and when our effluent mixes with the creek).

Parameter	Date	NPDES Test	Test Result
TSS	1/10/2024	YES	2.7 mg/L
TSS	1/14/2024	YES	< 2.5 mg/L
TSS	1/24/2024	YES	< 2.5 mg/L
FECAL	1/11/2024	YES	3.0/ 100 ml
FECAL	1/18/2024	YES	< 1.0/ 100 ml
FECAL	1/25/2024	YES	< 2.0/ 100 ml
FECAL	1/26/2024	NO	65.1/ 100ml
FECAL	1/29/2024	NO	64.4/ 100ml
FECAL	1/31/2024	NO	30.0/ 100 m;
FECAL	2/2/2024	NO	Awaiting results

I trust that I have provided all the information that was requested and needed. If you require any additional information, please feel free to reach out and I will provide that was quickly as possible. I have made a note to continue to update you with the progress being made and I will submit another report to you on Friday February 9, 2024.

Thank you,

Terry Long, Plant Manager
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