



Contract Lab: ETG BOD and CBOD marked “No Data,” due to issues with deionized water used in the preparation of the BOD analysis.

**Siloam Springs Wastewater Plant
975 Anderson Avenue
Siloam Springs, Arkansas 72761**

Permit Number: AR0020273

This letter is to address the modification of the BOD and CBOD frequency for Permit (AR0020273) regarding the ETG sample analyzed from a composite sample ran on January 16th through the 17th.

Environmental Testing Group (ETG) informed us that there were issues with the BOD and CBOD samples that were analyzed due to contaminated deionized water used in the preparation of the BOD analysis.

The BOD and CBOD samples are marked “No Data” and it was determined that the deionized water was either contaminated or failed in shipping due to freezing temperatures. This caused dissolved oxygen depletion in the BOD/CBOD samples during the week of 01/15-19/24 in two analytical batches.

ETG has implemented a corrective action plan to mitigate any future deionized water issues. As a back-up ETG has purchased bottles of distilled water to keep as an emergency back-up if needed. The Environmental Testing Group, corrective action and problem report is attached to this letter for review.

Respectfully submitted,

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ETG CORRECTIVE ACTION
FORM

Document No.:
ETG-QA/QC-002_r3

ENVIRONMENTAL TESTING GROUP
CORRECTIVE ACTION AND PROBLEM REPORT

Work Order: 24A 0049-01 Project: City of Siloam Springs Date: 01/24/24 01/23/24
Problem(s): -02 Analytical Batch: 2401035

on 01/10/24 Evoqua Water changed air filter cans for the DI water supply. It changed the quality of water and turned sudsy/soapy with foam and floating chunks. Water filter cans were changed again 01/11/24 with similar results. The DI water is used for many processes in the lab and BOD dilution water is one of them. The change in water resulted in two BOD Analytical Batches to have no calculable results due to complete oxygen depletion.

Investigated Root Cause:

The water tanks delivered by Evoqua were either contaminated or failed in shipment due to freezing temps. This contaminated water caused total Dissolved Oxygen depletion in the BOD/CBOD sampled during the week of 01/15-19/24 in two analytical batches.

Conclusion/Corrective Action:

When Evoqua changes filter cans we will run the water through the system to observe any foaming/particulates/visible issues and report if anything is observed. We have purchased some bottled Distilled water to keep as an emergency backup if needed.

Follow Up: Due Date: 01/24/24 Date Closed: Open for 2024

Findings:

Evoqua changed tanks for the third time on 01/23/24 - so far no issues have been detected.

We will revisit with the next delivery in 3-4 months

Quality System Manager Joshua S. Hoff
Analyst/Employee