

NON-COMPLIANCE REPORT

EPA, REGION 6
COMPLIANCE ASSURANCE AND ENFORCEMENT
1445 ROSS AVENUE
DALLAS, TX 75202-2733

ADEQ
NPDES ENFORCEMENT SECTION
5301 NORTHSHORE DRIVE
NORTH LITTLE ROCK, AR 72118

RE: NPDES Permit No. AR0021750 Massard WWTP

Address: 1609 9th Street

City: Barling, Arkansas 72923

Contact: Steve Floyd, Program Manager, Water/Sewer Treatment Phone: 479-784-2331

<u>Date of Non-compliance</u>	<u>Parameter Exceeded</u>	<u>Quantity or Loading</u>	<u>Quality or Concentration</u>	<u>Permit Limits</u>
August 2021	Ammonia, Nitrogen	N/A	30 day average- 5.5 mg/l	5.0 mg/l – 30 day avg. 7.5 mg/l - 7day avg. 417 ppd

We feel this problem was due to:

The causes of the Ammonia, Nitrogen exceedances are as follows.

1. Please reference the City's Non-Compliance report for June and July 2021.
2. On or about June 23, 2021 the aeration system experienced an explosive growth of Nocardia and other filamentous organisms. This growth greatly reduced the ability to remove ammonia, nitrogen. Due to the excessive foam being produced air volumes to the basins were reduced to prevent an overflow of the foam which would have resulted in an overland discharge. The plant continues to experience unwanted Nocardia growth.

Plan of correcting the problem in the following manner:

Anti-foaming agents with anti-fungal and anti-bacterial properties have been introduced to control foaming and eliminate unwanted organisms. Bacterial supplements are being added three times per week to the activated sludge system. Plant staff increased waste activated flow rates for a short time to remove the filamentous organisms from the system. Air flow to the basins has been increased to optimum levels. As a result ammonia nitrogen concentrations have averaged 4.2 mg/l for the period August 21st through August 31st and a continuing downward trend has been noted.

Time estimated to correct the problem:

Efforts to optimize plant processes are currently proceeding. The addition of bacterial supplements appears to be stabilizing the treatment system with ammonia nitrogen levels currently averaging below the 5.0 mg/l limit.



A handwritten signature in blue ink, appearing to read "Lance McAvoy", is written over a horizontal line.

Lance McAvoy, Utility Director

Date: 09/20/2021