

Bio-Analytical Laboratories (BAL)  
ADEQ Certificate #88-0630  
Project X6083

### Bio-Analytical Laboratories' Executive Summary

**Permittee:** Magnolia Wastewater System  
P.O. Box 666  
Magnolia, AR 71753

**Project #:** X6083

**Outfall:** 001 (treated municipal wastewater)

**Permit #:** AR0043613/ AFIN #14-00059

**Contact:** Russell Thomas

**Dates:** June 28 - July 5, 2016

**Test Type:** Chronic Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia* (EPA Method 1002.0)  
Chronic Static Renewal Survival and Growth Test using *Pimephales promelas* (EPA Method 1000.0)

#### Results:

##### For *Ceriodaphnia dubia*:

1. If the NOEC for survival is less than the critical dilution (100.0%), enter a "1"; otherwise, enter a "0" for Parameter TLP3B - 0 -Pass
2. If the NOEC for reproduction is less than the critical dilution (80.0%), enter a "1"; otherwise, enter a "0" for Parameter TGP3B - 0 - Pass
3. Report the NOEC value for survival, Parameter TOP3B - 100.0%.
4. Report the NOEC value for reproduction, Parameter TPP3B - 100.0%.
5. Report the largest % coefficient of variation between the control and the critical dilution, Parameter TQP3B - 28.25%.

##### For *Pimephales promelas*:

1. If the NOEC for survival is less than the critical dilution (100.0%), enter a "1"; otherwise, enter a "0" for Parameter TLP6C - 0 -Pass
2. If the NOEC for growth is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter TGP6C - 1 -Fail
3. Report the NOEC value for survival, Parameter TOP6C - 100.0%.
4. Report the NOEC value for growth, Parameter TPP6C - 80.0%\*.
5. Report the largest % coefficient of variation between the control and the critical dilution, Parameter TQP6C - 31.32%.

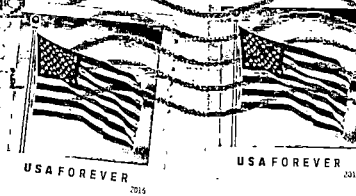
\*Note: Treating the effluent with ultraviolet light reduced the sub-lethal effect in this test. Based on the UV-treatment, the NOEC for growth was 100.0%.

This report contains a total of 51 pages, including this page. The results contained within pertains only to the samples listed on the chain of custody documents in Appendix A. The information meets the standards set forth by ADEQ. The chemical data in this report is for monitoring purposes only and should not be reported on discharge monitoring reports.

City of Magnolia Big Creek - WWTP  
P.O. Box 666  
Magnolia, AR 71754-0666  
NPDES Permit No. AR0043613  
AFIN No. 14-00059

LITTLE ROCK AR 722

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NPDES Enforcement Section  
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