

Zebra Mussel Monitoring in Lake Arlington

Trinity River Authority

Addendum #2

2022

The text on the following page replaces the Results section of the original report published in 2019.

PREPARED IN COOPERATION WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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Results

Table 1: Lake Arlington Zebra Mussel Sample Results

Event	Date	Juveniles/Adults	Veligers	eDNA
1	6/6/2018	Negative	Negative	Positive
2	6/28/2018	Negative	Negative	Negative
3	10/22/2018	Negative	Negative	Positive
4	5/6/2019	<unable to sample>*	Negative	Negative
5	10/8/2019	Negative	Negative	Negative
6	4/28/2020	Negative	Negative	Positive
7	10/7/2020	Negative	Negative	Negative
8	4/21/2021	Negative	Negative	Negative
9	10/20/2021	Negative	Negative	Negative
10	4/4/2022	Negative	Negative	Negative
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*Unsafe weather conditions prevented sample collection

Current results indicate the presence of environmental DNA (eDNA) in Lake Arlington from two sampling efforts in 2018 and one in 2020. Though eDNA does not confirm the existence of a reproducing live colony, it may be an effective tool for the early detection of aquatic invasive species such as the zebra mussel (Pilliod et al., 2013).