

# NPDES Permit No. AR0000752

## El Dorado Chemical Company

### Outfall 101ST Non-Compliance Report

#### February 2023

All parameters sampled for 101ST (sum total outfall for 001+002) exceeded permit limits:

Parameter	Date	Permit Limit	Sample Result
Nitrogen, Nitrate total [as N] Monthly Average	02/01/23-02/09/23	581.3 lbs/day	4010.10 lbs/day
Nitrogen, Nitrate total [as N] Daily Maximum	02/01/23	1568.3 lbs/day	4619.03 lbs/day
Nitrogen, Nitrate total [as N] Daily Maximum	02/06/23	1568.3 lbs/day	4451.96 lbs/day
Nitrogen, Nitrate total [as N] Daily Maximum	02/07/23	1568.3 lbs/day	4162.83 lbs/day
Nitrogen, Nitrate total [as N] Daily Maximum	02/08/23	1568.3 lbs/day	2806.58 lbs/day

The values reported above are representative of Outfall 001 since there was no discharge from Outfall 002 in the month of January. Due to numerous rain events and significant rainfall, the level and volume of Lake Kildeer rose significantly. To prevent overflow into the emergency spillway, Outfall 001 was opened on January 3, 2023. It was then closed on January 9, 2023, and reopened on January 27, 2023, for the remainder of the January, continuing into February, when another significant rain event was forecasted for El Dorado and ultimately resulted in significant rainfall. Concentrations of Nitrates and Ammonia have been elevated in Lake Kildeer because of the numerous rain events and rising concentrations in the storage lagoon (Pond 004) due to these rainfall events. The site is investigating significant stormwater runoff into Lake Killdeer from the upslope areas surrounding Lake Killdeer that are not inside the production area footprint. Solutions to minimize this influent to Lake Killdeer are being evaluated. Outfall 001 is now closed as of February 9, 2023.