

NPDES Permit No. AR0000752

El Dorado Chemical Company

Outfall 102ST Non-Compliance Report

January 2023

All parameters sampled for 102ST (sum total outfall for 001+003) exceeded permit limits:

Parameter	Date	Permit Limit	Sample Result
Chloride [as Cl] Daily Maximum	01-04-23/01-06-23	397.5 lbs/ day	2144.56 lbs/day
Chloride [as Cl] Monthly Average	01-04-23/01-06-23	265.0 lbs/day	2144.56 lbs/day
Sulfate, total [as SO4] Daily Maximum	01-04-23/01-06-23	754.5 lbs/day	3878.45 lbs/day
Sulfate, total [as SO4] Monthly Average	01-04-23/01-06-23	503.0 lbs/day	3878.45 lbs/day
Solids, total dissolved Daily Maximum	01-04-23/01-06-23	2007.0 lbs/day	25328.63 lbs/day
Solids, total dissolved Monthly Average	01-04-23/01-06-23	1338.0 lbs/day	25328.63 lbs/day

The concentration limitations for Chlorides (as Cl), Sulfates (as SO₄), and TDS daily maximums were exceeded one time during the month of January. The concentration limitations for Sulfates (as SO₄) daily maximum were exceeded one time during the month of January. These same values are representative of the monthly average data for Outfalls 001 and 003. These monthly samples were not collected on the same day. Outfall 001 samples were collected on January 4, 2023 while Outfall 003 samples were collected on January 6, 2023. 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 27th for the remainder of the month 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. Utilization of Outfall 001 resulted in higher loading for the sum total outfall. Outfall 001 is now closed as of February 9, 2023.