

NPDES Permit No. AR0000752
El Dorado Chemical Company
Outfall 010 Non-Compliance Report
October 2023

All parameters sampled at outfall 010 were within permit limits except for the following:

Parameter	Date	Permit Limit	Sample Result
Nitrogen, ammonia total [as N] Daily Maximum	10/31/23	605 lbs./day	779.34 lbs./day
Nitrogen, ammonia total [as N] Monthly Average	10/1/23-10/31/23	265.2 lbs./day	492.02 lbs./day

Due to the numerous rain events over the last several months, the facility has maxed out its ability to reuse and recycle process wastewater streams. This results in elevated NH₃-N and NO₃-N in the storage lagoon. The site is investigating significant stormwater runoff into Lake Kildeer from the upslope areas surrounding Lake Kildeer that are not inside the production area footprint. Solutions to minimize this influent to Lake Kildeer are being evaluated. For a short-term solution, El Dorado Chemical Company has permitted a temporary cooling tower to operate as an ammonia stripper to remove ammonia from Lake Lee, this is a point upstream that directly discharges to Lake Kildeer. The cooling tower became operational on July 21st. Additionally, EDC is working to develop plans to reduce the source load at the facility and long-term treatment solutions. A corrective action plan was developed and submitted to ADEQ on August 9, 2023. EDC adjusted flows to decrease loadings when the risk of overflowing into the emergency spillway was minimal. EDC ran at a reduced rate of 1 MGD from September 30, 2023, until October 27, 2023. In doing so, we limited our daily maximum exceedances to just one day in October. EDC has decreased the average ammonia loading by approximately 78% and average nitrate loading by approximately 72% since July 2023.