

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

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

Parameter	Date	Permit Limit	Sample Result
Nitrogen, ammonia total [as N] Daily Maximum	8/1/23	605 lbs./day	2158.50 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	8/2/23	605 lbs./day	1992.56 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	8/3/23	605 lbs./day	1826.26 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	8/8/23	605 lbs./day	1825.99 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	8/29/23	605 lbs./day	797.69 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	8/30/23	605 lbs./day	914.55 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	8/31/23	605 lbs./day	997.06 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	8/1/23	1568.3 lbs./day	2158.50 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	8/2/23	1568.3 lbs./day	1992.56 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	8/3/23	1568.3 lbs./day	1992.29 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	8/8/23	1568.3 lbs./day	1991.99 lbs./day
Nitrogen, ammonia total [as N] Monthly Average	8/1/23-8/31/23	265.2 lbs./day	1379.09 lbs./day
Nitrogen, ammonia total [as N] Monthly Average	8/1/23-8/31/23	581.3 lbs./day	1377.04 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 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. 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 Killdeer. 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. The pumps associated with outfall 010 were shut off on August 9. There was no discharge from outfall 010 from August 10- 27, 2023. EDC began discharging on August 28th to avoid overflowing into the emergency spillway which would result in a non-permitted discharge.