

NPDES Permit No. AR0000752
El Dorado Chemical Company
Outfall 010 Non-Compliance Report
July 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	7/4/23	605 lbs./day	1896.44 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	7/5/23	605 lbs./day	1896.65 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	7/6/23	605 lbs./day	2042.62 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	7/11/23	605 lbs./day	2188.44 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	7/12/23	605 lbs./day	2226.29 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	7/13/23	605 lbs./day	1994.14 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	7/18/23	605 lbs./day	2656.82 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	7/19/23	605 lbs./day	2490.78 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	7/20/23	605 lbs./day	3653.63 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	7/25/23	605 lbs./day	2158.80 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	7/26/23	605 lbs./day	2325.63 lbs./day
Nitrogen, ammonia total [as N] Daily Maximum	7/27/23	605 lbs./day	1826.99 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	7/4/23	1568.3 lbs./day	1896.44 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	7/5/23	1568.3 lbs./day	1750.75 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	7/6/23	1568.3 lbs./day	1750.82 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	7/11/23	1568.3 lbs./day	1750.75 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	7/12/23	1568.3 lbs./day	2067.27 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	7/13/23	1568.3 lbs./day	1661.78 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	7/18/23	1568.3 lbs./day	2324.72 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	7/19/23	1568.3 lbs./day	2324.73 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	7/20/23	1568.3 lbs./day	2158.96 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	7/25/23	1568.3 lbs./day	2158.80 lbs./day

Parameter	Date	Permit Limit	Sample Result
Nitrogen, nitrate total [as N] Daily Maximum	7/26/23	1568.3 lbs./day	1993.40 lbs./day
Nitrogen, nitrate total [as N] Daily Maximum	7/27/23	1568.3 lbs./day	2159.17 lbs./day
Nitrogen, ammonia total [as N] Monthly Average	7/1/23-7/31/23	265.2 lbs./day	2279.77 lbs./day
Nitrogen, ammonia total [as N] Monthly Average	7/1/23-7/31/23	581.3 lbs./day	1999.80 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.