



Electronic Submittal

Sandy, Oregon November 2022 DMR Summary - NPDES Permit 102429

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Please find attached the Sandy POTW November 2022 DMR (Excell Version)

During the November reporting period heavy winds and power fluctuations were experienced November 16 & 17. High winds resulted in power fluctuations and intermittent power outages. There were frequent automatic switching cycles from generator power to utility power. The plant UV system was impacted by the power fluctuations. One of the two UV banks failed; A number of bulbs in the failed bank actually exploded. The overload relay for the electrical motors that drive the cooling pumps fused in a stuck position, causing a cooling system outage. The UV outage resulted in two days (11/16 & 11/17) of effluent e-coli counts that exceeded permit limits.

On November 18th utility provided electrical power was fully restored. Electricians repaired the failed UV system electrical components; repairs included installation of a new overload relay and new cooling pump motor (shelf spare). Operations staff replaced the failed UV bulbs and other components with spares that were on-hand. The UV system operation was fully restored to normal condition after November 18; e coli levels after 11/18 were within permit limits.

The monthly average for ammonia (NH₃) at 11 mg/L exceeded the permit limit of 3.7 mg/L and a single day maximum of 17.2 mg/L exceeded the daily maximum limit of 10.9 mg/L. November was the first month of surface water discharge since construction activities and secondary system improvements that were accomplished over the summer. Considering the new operating features, which included new air piping, diffusers, air laterals, baffles, reactor flow routing and other features, it is believed the exceedences were the result of operations staff dialing in the newly configured process.



Effluent Permit Excursions:

- NH3 daily maximum exceeded
- NH3 monthly average maximum exceeded
- E-coli daily count limit exceeded, two days

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluated the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Regards,

Mike Greene

Mike Greene

Certification: # 8098 C/IV; # 7535 T/IV

Veolia