

SECTION 14 INCIDENT REPORT (Waste Management and Pollution Control Act)

Date and Time of Notification:	14 November 2023, 07:45hrs
Person / Company:	Power and Water Corporation
Incident:	Overflow of treated effluent – Angurugu ponds

(a) the incident causing or	i. Description of the waste that was discharged.				
threatening to cause pollution	Treated effluent				
	ii. Indicative wastewater quality for the discharge.				
	Indicative wastewater quality for the Angurugu wastewater treatment ponds is provided in table 1 (see below).				
		Table 1. Angurugu wastewater quality results			
			E. coli	Bacteriological Enterococci	
	Sample Date	Description	E. coli (MPN/100 mL)	Enterococci (MPN/100	
	12/09/2023 08:55:00	WQ-Angurugu Infiltration Basin 2 Outlet	20.0	mL) 31.0	
	05/07/2023 09:55:00	WQ-Angurugu Infiltration Basin 2 Outlet	723.0	122.0	
	05/04/2023 08:00:00	WQ-Angurugu Infiltration Basin 2 Outlet	100.0	1,710.0	
	11/01/2023 09:15:00	WQ-Angurugu Infiltration Basin 2 Outlet	2,720.0	1,210.0	
	cessation of the			•	
(b) the place where the incident occurred	i. Description of the PWC asset from which the discharge occurred. Angurugu wastewater ponds, Groote Eylandt.				
	Overflows are from the infiltration basin after 4 treatment ponds, and from the irrigation field, so effluent is treated. ii. GPS coordinates of the discharge point from the PWC asset, and the final coordinates of the final discharge point.				
	Discharge point 1: 136.4520281 E, 13.9809970 S (Irrigation field) Discharge point 2: 136.4520783 E, 13.9798429 S (Infiltration basin after 4 treatment ponds) Final discharge point: 136.4437849 E, 13.9743401 S (Angurugu River)				
	Please refer to	map provided in Appendix	Α		

	iii. Indicate any locations nearby to the discharge point where public can gain ready-access, such as public open spaces through which the discharge moves.
	Overflow is from the infiltration basin and the irrigation field after 4 treatment ponds, so effluent is treated. Discharge is to a purpose built drain around the facility, which flows across an unnamed mine access road and ultimately to Angurugu River, that is accessible to the public. Signage is in place along the drain to alert the public and prevent them coming in close proximity.
(c) the date and time of the incident	i. The time and date of commencement and cessation of the discharge.
modem	The commencement time of the spill is unknown, but was first observed by the Utilities Support Contract Worker (USC) morning of 13.11.2023. The USC informed Power and Water Technical Coordinator who promptly informed Environmental Services around 8:40am that same day. The spill could not be stopped by the USC worker, therefore a contractor electrician was arranged to rectify pump failure.
	Overflow currently ongoing.
	ii. How PWC were notified, or became aware of the discharge.
	The spill was initially reported to the Power and Water Technical Coordinator responsible for the community by the Utility Service Contract worker undertaking his routine work.
	iii. The process by which the discharge occurred.
	Treated effluent from Angurugu is disposed of by infiltration, irrigation and evaporation. Rainfall and flows from the community system have exceeded the infiltration, irrigation and evaporation capacity of the site and overflows from the infiltration basin and irrigation field have occurred.
	The overflow occurred due to a pump failure and coincided with a rainfall event causing the ponds to discharge.
	Note that Angurugu received rainfalls over the weekend which measured 42mm at Groote Eylandt airport (BoM gauge station ID 14518).
	iv. The reason why the discharge occurred.
	As per (c) iii.
(d) how the pollution has occurred, is occurring or may occur	As per (c) iii & (c) iv.
(e) the attempts made to prevent, reduce, control, rectify or clean up the pollution or resultant environmental harm caused or threatening to be caused by the incident	 i. Confirmation signage and fencing has been erected, as appropriate. Diversion drains around the facility are in place to direct the effluent from the ponds across the road and into bushland. Signage has been placed within the area to alert the public and the overflow area is located within a restricted road reducing the probability of the public coming in contact with the wastewater.
	Fencing not appropriate in this instance, due to private road.
	ii. Decontamination of the site as appropriate.

	Overflow is treated effluent, sewage debris is not present. Natural processes (UV disinfection) will provide further disinfection of the discharge. Mosquito larvae baiting has also been undertaken to prevent an increase in biting pests within the community.
(f) the identity of the person notifying the NT EPA	Power and Water's Environmental Services on behalf of Water Services



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Appendix A – Location map

