

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

Date and Time of Notification:	Thursday 11 th November 2021, 14:36hrs
Person / Company:	Power and Water Corporation (PWC)
Incident:	Discharge of fully treated effluent from Alice Springs Ponds to Ilparpa Swamp

(a) the incident causing or threatening to cause pollution

i. Description of the waste that was discharged.

Fully Treated, Highly Dilute Effluent

ii. Indicative wastewater quality for the discharge.

The water quality was highly dilute, as the rainfall for the preceding 48-hour period was 118mm (Alice Springs Airport – 15590), this meant the flows were extreme weather flows. Please refer to the following table for indicative wastewater quality from previous discharges in 2016 and 2017.

Note: site only discharges in extreme weather events.

g		Discharge Monitoring Results at SAA100 (Outfall 2)		
Field Characteristics	Units	Sep 2016	May 2017	
рН	pH units	9.07	7.91	
Electrical Conductivity	μS/cm	2940	3180	
Dissolved Oxygen	% sat	118.9	46.0	
Temperature	∘C	18.7	16.4	
Nutrients				
Filterable Reactive Phosphorus	mg/L	0.57	1.8	
Total Phosphorus	mg/L	2.4	7.3	
Ammonia	mg/L	18	46	
Nitrate	mg/L	0.39	<0.1	
Nitrite	mg/L	<0.1	<0.1	
Bacteriological				
E.coli	cfu/100mL	145	435	
Metals				
Aluminium	μg/L	140	20	
Copper	μg/L	<10	<10	

	Zinc	μg/L	<10	<10	
	Chromium	μg/L	<5	<5	
	Environmental				
	Indicators Total Suspended Solids	mg/L	165	288	
	Volatile Suspended Solids	mg/L	135	258	
	Biological Oxygen Demand	mg/L	50	110	
	iii. Volume of the waste the The volume of waste disconcurs at this discharge p	harged is unkr oint.	nown. No telen	_	
(b) the place where the incident occurred	 i. Description of the PWC asset from which the discharge occurred. Overflow relief point near the outlet of pond C3 (final maturation pond of C set) at the Alice Springs Ponds. 				
	 ii. GPS coordinates of the discharge point from the PWC asset, and the final coordinates of the final discharge point. Photo 1: Discharge Point (Point 1): 133.8321538E, -23.7403845S Photo 2: Final Discharge Point (Point 2): 133.8353127E, -23.7434124S (Stormwater drain) iii. Indicate any locations nearby to the discharge point where public car gain ready-access, such as public open spaces through which the discharge moves. The discharge flow is controlled across PWC land until it then exits at the southern fence line. After which it then flows into the Ilparpa Swamp Access to the waterway is possible, as site is public land. However access to flood water is discouraged by the Northern Territor Government due to drowning risks. 				
(c) the date and time of the incident	i. The time and date of commencement and cessation of the discharge. The estimated commencement time is approximately 12:20hrs on the 10/11/2021, PWC operators attended the site and confirmed the overfleat 16:00hrs on the 10/11/2021. It is estimated that the discharge ceas at 12:00hrs on the 11/11/2021.			y 12:20hrs on the firmed the overflow	
	ii. How PWC were notified, or became aware of the discharge.Operator was monitoring pond level trends, attended site when it was safe to do so and confirmed the discharge.				
	iii. The process by which Extreme rainfall in the process access the WWTP site du	oceeding 48hoo astructure. PW	urs led to inflov C operators w	ere unable to	

	diversions in time. As access to the site became available, diversions were put in place, assisting with levelling ponds, and resulting in cessation of the discharge. 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. Fencing and signage not reasonable or practical in extreme flooding. ii. Decontamination of the site as appropriate. Due to the highly dilute and fully treated nature of the discharge, disinfection is not appropriate. iii. Attempts made to prevent, reduce or control the discharge Operator attended site when safe and reduced flow to the discharging 'C' pond set by diverting flow to 'B' pond set. Effluent pumps were increased to 100% of capacity to assist balancing of pond levels in a timely manner.
(f) the identity of the person notifying the NT EPA	PWC Environmental Team on behalf of Water Services



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Appendix A – Location map Point 1 (Labelled 1 Below) and Point 2 (Labelled 2 below) as per section (b)



Appendix B – Photographs

Photo 1: (Point 1 as per Section (b)): Discharge from Pond C3 Taken 16:04hr 10/11/2021



Photo 2: (Point 2 as per Section (b)): Discharge Point to Environment. Taken 16:10hr 10/11/2021

