

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

Date and Time of Notification:	Thursday 15 th April 2021, 10:17 hrs
Person / Company:	Power and Water Corporation (PWC)
Incident:	Discharge of raw sewage from sewerage network

(a) the incident causing or threatening to cause pollution	i. Description of the waste that was discharged. Raw sewage ii. Indicative wastewater quality for the discharge. Please refer to the following table for indicative wastewater quality, as represented by >ADWF, as Ludmilla inflows for 14/04/2021 were 15.5ML/day. Note that environmental sampling was undertaken in six separate locations, both upstream and downstream of the spill site on the morning of 15/04/2021, therefore actual results can be supplied once received from the laboratory. Table 1: Inflow to Ludmilla Wastewater Treatment Plant <table><tr><th>Inflow volume</th><th>median inflow kL</th><th>median E coli</th><th>90th percentile inflow kL</th><th>90th percentile E coli</th></tr><tr><td>below ADWF</td><td>11,040</td><td>11,199,000</td><td>12,925</td><td>15,531,000</td></tr><tr><td>>ADWF (14.5 ML/day)</td><td>15,274</td><td>9,804,000</td><td>22,206</td><td>17,148,300</td></tr><tr><td>>2x ADWF (29.0 ML/day)</td><td>31,673</td><td>4,884,000</td><td>37,166</td><td>14,385,600</td></tr><tr><td>>3x ADWF (43.5 ML/day)</td><td>43,629</td><td>4,611,000</td><td>50,506</td><td>12,843,600</td></tr><tr><td>>5x ADWF (72.5 ML/day)</td><td>71,558</td><td>5,002,000</td><td>78,578</td><td>5,905,200</td></tr><tr><td>>WDL limit (89.5 ML/day)</td><td>102,445</td><td>102,445</td><td>148,575</td><td>13,704,400</td></tr></table> (ADWF= Average Dry Weather Flow ~14.5 ML/day in 2013/14) iii. Volume of the waste that was discharged. The volume of wastewater discharged is unknown. No telemetric monitoring occurs at the site of discharge.	Inflow volume	median inflow kL	median E coli	90th percentile inflow kL	90th percentile E coli	below ADWF	11,040	11,199,000	12,925	15,531,000	>ADWF (14.5 ML/day)	15,274	9,804,000	22,206	17,148,300	>2x ADWF (29.0 ML/day)	31,673	4,884,000	37,166	14,385,600	>3x ADWF (43.5 ML/day)	43,629	4,611,000	50,506	12,843,600	>5x ADWF (72.5 ML/day)	71,558	5,002,000	78,578	5,905,200	>WDL limit (89.5 ML/day)	102,445	102,445	148,575	13,704,400
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(b) the place where the incident occurred	i. Description of the PWC asset from which the discharge occurred. 375mm cement lined, steel cased, sewer main pipeline. ii. GPS coordinates of the discharge point from the PWC asset, and the final coordinates of the final discharge point. Discharge Point: 130.8656645E, -12.3849967S Final Discharge Point: 130.8614947E, -12.3762230S (Rapid Creek)																																			

	<i>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.</i> Access to the public is possible but unlikely; additionally signage has been erected to warn the public of the presence of sewage in the water, at the fishing platform.
(c) the date and time of the incident	<i>i. The time and date of commencement and cessation of the discharge.</i> The time and date of when the spill started is unknown, but it is believed to have commenced in the early hours of the 15/04/2021. It was first noticed by a PWC employee around 05:00hrs, 15/04/2021 and had stopped shortly before 08:30hrs 15/04/2021. <i>ii. How PWC were notified, or became aware of the discharge.</i> A PWC employee noticed the spill around 05:00hrs, whilst out jogging. <i>iii. The process by which the discharge occurred.</i> A combination of corrosion and normal deterioration that occurs over time caused a weak point in the pipework, which eventually gave way under the pressure of the sewage pump station's pumping pressure. Once the section of pipework is replaced, to prevent a reoccurrence, the old pipework will be examined to confirm actual causal factors for the pipe failure. <i>iv. The reason why the discharge occurred.</i> As per (c) iii. Failure of infrastructure.
(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>i. Confirmation signage and fencing has been erected, as appropriate.</i> Signage has been erected at the fishing platform, to warn of the presence of the spill, and to avoid contact. <i>ii. Decontamination of the site as appropriate.</i> Clean up consistent with Sewage Spills/Overflow Response Work Instruction as appropriate to the location, and to minimise risk to the Environment. Sites were inspected for any gross pollutants of which none were observed.
(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



Appendix B – Photographs - (Patched sewer pipe)



Appendix B – Photographs – (Warning sign at Rapid Creek's fishing platform)

