

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

<b>Date and Time of Notification:</b>	Tuesday 26 <sup>th</sup> October 2021, 13:14hrs
<b>Person / Company:</b>	Power and Water Corporation ( <b>PWC</b> )
<b>Incident:</b>	Discharge of raw sewage from sewerage network

<p><b>(a) the incident causing or threatening to cause pollution</b></p>	<p><i>i. Description of the waste that was discharged.</i></p> <p>Raw sewage</p> <p><i>ii. Indicative wastewater quality for the discharge.</i></p> <p>The average inflow data to Ludmilla WWTP between the 24<sup>th</sup> and 26<sup>th</sup> October inclusive, was 12ML/day, and rainfall over the same period was 0.2mm (Darwin Airport – 014015), meaning that flows were average dry weather flows. Please refer to the following table for indicative wastewater quality.</p> <p><b>Table 1: Inflows to Ludmilla WWTP</b></p> <table border="1"> <thead> <tr> <th></th> <th>Median Inflow (ML)</th> <th>Median E. coli</th> <th>Median Enterococci</th> <th>Dilution Terminology</th> </tr> </thead> <tbody> <tr> <td>below ADWF</td> <td>11.401</td> <td>14,136,000</td> <td>713,550</td> <td>Undiluted</td> </tr> <tr> <td>&gt;ADWF</td> <td>13.253</td> <td>11,616,000</td> <td>727,000</td> <td>Partially Diluted</td> </tr> <tr> <td>&gt;2xADWF</td> <td>29.629</td> <td>8,164,000</td> <td>323,000</td> <td>Diluted</td> </tr> <tr> <td>&gt;3xADWF</td> <td>44.043</td> <td>6,488,000</td> <td>261,300</td> <td rowspan="3">Highly diluted</td> </tr> <tr> <td>&gt;4xADWF</td> <td>51.048</td> <td>5,634,500</td> <td>238,100</td> </tr> <tr> <td>&gt;5xADWF</td> <td>99.841</td> <td>2,359,000</td> <td>218,700</td> </tr> </tbody> </table> <p>NOTE: Based on 01/01/2018 to 31/12/2020 inflows to Ludmilla WWTP and monitoring events data. Average dry weather inflow being 11.9012 ML/day.</p> <p><i>iii. Volume of the waste that was discharged.</i></p> <p>The volume of waste discharged is unknown. No telemetric monitoring occurs at the site of discharge.</p>		Median Inflow (ML)	Median E. coli	Median Enterococci	Dilution Terminology	below ADWF	11.401	14,136,000	713,550	Undiluted	>ADWF	13.253	11,616,000	727,000	Partially Diluted	>2xADWF	29.629	8,164,000	323,000	Diluted	>3xADWF	44.043	6,488,000	261,300	Highly diluted	>4xADWF	51.048	5,634,500	238,100	>5xADWF	99.841	2,359,000	218,700
	Median Inflow (ML)	Median E. coli	Median Enterococci	Dilution Terminology																														
below ADWF	11.401	14,136,000	713,550	Undiluted																														
>ADWF	13.253	11,616,000	727,000	Partially Diluted																														
>2xADWF	29.629	8,164,000	323,000	Diluted																														
>3xADWF	44.043	6,488,000	261,300	Highly diluted																														
>4xADWF	51.048	5,634,500	238,100																															
>5xADWF	99.841	2,359,000	218,700																															
<p><b>(b) the place where the incident occurred</b></p>	<p><i>i. Description of the PWC asset from which the discharge occurred.</i></p> <p>Access chamber 5/2 at the corner of Biddlecombe Road and Grice Crescent, Coolalinga.</p> <p><i>ii. GPS coordinates of the discharge point from the PWC asset, and the final coordinates of the final discharge point.</i></p> <p>Discharge Point: 131.0393592E, -12.5185038S</p>																																	

	<p>Final Discharge Point: 131.0394321E, -12.5186539 (Stormwater drain)</p> <p><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></p> <p>Access to the spill was possible, but the area was limited to a very small section of roadside between the manhole and the stormwater drain. Additionally, the spill site is not within a highly populated area and is surrounded by vacant land lots. The spill has been stopped, and the roadside cleaned and disinfected, with the manhole fenced off and warning signage displayed.</p>
<p><b>(c) the date and time of the incident</b></p>	<p><i>i. The time and date of commencement and cessation of the discharge.</i></p> <p>The commencement time of the overflow is unknown. PWC personnel observed the overflow at approximately 15:00hrs 25/10/2021, by which time the spill had stopped.</p> <p><i>ii. How PWC were notified, or became aware of the discharge.</i></p> <p>Senior management was advised of the spill from an external source, who then advised the Sewer Reticulation Coordinator, who then dispatched a field crew. PWC personnel attended the site at 15:00hrs, 25/10/2021 and found that the spill had already stopped and then proceeded to clean the roadside and erect fencing and signage..</p> <p><i>iii. The process by which the discharge occurred.</i></p> <p>The cause of the spill was most likely due to a failure of the nearby privately owned sewage pumping station, which caused sewage to back up within the reticulated sewage system, causing the first manhole upstream from the sewage pumping station to overflow.</p> <p><i>iv. The reason why the discharge occurred.</i></p> <p>As per (c) iii.</p>
<p><b>(d) how the pollution has occurred, is occurring or may occur</b></p>	<p>As per (c) iii &amp; (c) iv.</p>
<p><b>(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</b></p>	<p><i>i. Confirmation signage and fencing has been erected, as appropriate.</i></p> <p>Fencing and signage was erected around the manhole. The area immediately around the manhole, as well as the roadside between the manhole and the stormwater drain was cleaned and disinfected, consistent with the PWC Sewage Spills/Overflow Response Work Instruction, as appropriate to the location.</p> <p><i>ii. Decontamination of the site as appropriate.</i></p> <p>Clean up consistent with Sewage Spills/Overflow Response Work Instruction as appropriate to the location, and to minimise risk to the Environment. Site inspected for any gross pollutants, and the area disinfected.</p>

	<p><i>iii. Attempts made to prevent, reduce or control the discharge</i></p> <p>As the sewage pumping station associated with this discharge is privately owned, there is no action that Power and Water could have taken to prevent, reduce or control this spill.</p>
<p><b>(f) the identity of the person notifying the NT EPA</b></p>	<p>PWC Environmental Team on behalf of Water Services</p>

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

Appendix A – Location map



Appendix B – Photograph of fencing and warning signage

