Northern Territory Environment Protection Authority

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

Date and Time of Notification:	Updated notification: 12.30pm Tues 2 Dec 2025 First notification: 3.30pm Thurs 27 Nov 2025
Person / Company:	Power and Water Corporation
Incident:	Discharge of highly diluted effluent from sewerage network, due to cyclonic wet weather events

(a) the incident causing or threatening to cause pollution

i. Description of the waste that was discharged.

Highly diluted sewage effluent, diluted by stormwater as a result of Tropical Cyclone Fina.

ii. Indicative wastewater quality for the discharge.

Indicative wastewater quality for these overflows may be interpreted from Table 1. Cyclonic conditions occurred on 22 and 23 November 2025. The associated rainfall resulted in an average sewage inflow to Ludmilla wastewater treatment plant of 2.2ML/hr on 22/11/2025 and 3.1ML/hr on 23/11/2025. Sewage inflows peaked at 5.2ML/hr on 22/11/2025 and 4.8ML/hr on 23/11/2025. Based on these inflow figures and the inflow figures in Table 1, the sewage is deemed highly diluted.

Table 1: Inflows to Ludmilla WWTP

	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	

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.

iii. Volume of the waste that was discharged.

The volume of wastewater discharged at each discharge location is unknown. No telemetric monitoring occurs at these locations, with the exception of the sewer overflow relief point located at the corner of Rapid Creek Road and Trower Road. This data will be downloaded during the dry season and can be supplied at a later date if required.

(b) the place where the incident occurred	*ii. Description of the PWC asset from which the discharge occurred.* • Sewer overflow relief point (1/10) – 24 East Point Road, Parap • Sewer overflow relief point (3H) – Corner of Trower Road and Rapid Creek Road, Rapid Creek • Sewer overflow relief point (7/35) – 194 Casuarina Drive/Aralia St, Nightcliff • Access Chamber 1/0, Fannie Bay – 39 East Point Road, Fannie Bay • Sewage pumping station (SP042) - Nemarluk Drive, Ludmilla • Sewage pumping station (SP007) – Rapid Creek Road, Rapid Creek • Sewage pumping station (SP008) – Lakeside Drive, Alawa • Sewage pumping station (SP004) – Dick Ward Drive, Coconut Grove • Sewage pumping station (SP032) – Botanical Gardens • Sewage pumping station (SP023) – Cullen Bay 1 • Sewage pumping station (SP024) – Cullen Bay 2 • Sewage pumping station (SP025) – Cullen Bay 3 • Sewage pumping station (SP061) – Darwin Business Park • Sewage pumping station (SP042) – Ludmilla • Sewage pumping station (SP012) – Minmarama Park • Sewage pumping station (SP041) – Showgrounds • Sewage pumping station (SP034) – Ski Club • Sewage pumping station (SP035) – Vesty's Beach • Sewage pumping station (SP045) – Waterfront 3 • Sewage pumping station (SP094) – Northcrest • Sewage pumping station (SP095) – Freds Pass Rd (Pankhurst) • Humpty Doo Wastewater Ponds (STP007) *ii. GPS coordinates of the discharge point from the PWC asset, and the final coordinates of the final discharge point.* • Sewer overflow relief point – 24 East Point Road, Parap 1. Discharge Point: 12.4342520°S, 130.8376568 ºE 2. Final discharge point: 12.4336630°S, 130.8358461 ºE • Sewer overflow relief point – Corner of Trower Road and Rapid Creek Road, Rapid Creek 1. Discharge Point: 12.385673°S, 130.864963 ºE 2. Final Point: 12.385733°S, 130.865954 ºE • Sewer overflow relief point – 194 Casuarina Drive/Aralia St, Nightcliff 1. Discharge Point: 12.381805°S, 130.841327 ºE 2. Final Point: 12.381806°S, 130.840992 ºE • Access Chamber 1/0, Fannie Bay – 39 East Point Road, Fannie Bay 1. Discharge Point: 12.4302303°S, 130.8363052 ºE 2. Final Point: 12.4312410°S, 130.8362781 ºE • Sewage pumping station (SPS042) – Nemarluk Drive, Ludmilla 1. Discharge Point: 12.4144849 ºS, 130.8503154 ºE 2. Final Point: 12.4144254 ºS, 130.8458232 ºE

	• Sewage pumping station (SPS007) – Rapid Creek Road, Rapid Creek 1. Discharge Point: 12.3806369 ºS, 130.8656139 ºE 2. Final Discharge Point: 12.3805596 ºS, 130.8665271 ºE • Sewage pumping station (SP008) – Lakeside Dr, Alawa 1. Discharge point: 12.3806488 ºS, 130.8656252 ºE 2. Final point: 12.3805596 ºS, 130.8665271 ºE • Sewage pumping station (SP004) – Dick Ward Drive, Coconut Grove 1. Discharge point: 12.13844838 S, 130.50811499 E 2. Final point: 12.23814638 S, 130.50678964 E • Sewage pumping station (SP032) – Botanical Gardens 1. Discharge point: 12.4437875 °S, 130.8379488 °E 2. Final point: 12.4438023 °S, 130.8377340 °E • Sewage pumping station (SP023) – Cullen Bay 1 1. Discharge point: 12.4533932 ºS, 130.8217460 ºE 2. Final point: 12.4524959 ºS, 130.8241553 ºE • Sewage pumping station (SP024) – Cullen Bay 2 1. Discharge point: 12.4546275 ºS, 130.8238975 ºE 2. Final point: 12.4524959 ºS, 130.8241553 ºE • Sewage pumping station (SP025) – Cullen Bay 3 1. Discharge point: 12.4527844 ºS, 130.8262443 ºE 2. Final point: 12.4524959 ºS, 130.8241553 ºE • Sewage pumping station (SP061) – Darwin Business Park 1. Discharge point: 12.4719176 ºS, 130.9128045 ºE 2. Final point: 12.4683755 ºS, 130.9116931 ºE • Sewage pumping station (SP012) – Minmarama Park 1. Discharge point: 12.4102764 ºS, 130.8483759 ºE 2. Final point: 12.4126484 ºS, 130.8455061 ºE • Sewage pumping station (SP041) – Showgrounds 1. Discharge point: 12.4320020 ºS, 130.8986762 ºE 2. Final point: 12.4351747 ºS, 130.8996479 ºE • Sewage pumping station (SP034) – Ski Club 1. Discharge point: 12.4348448 °S, 130.8341451 °E 2. Final point: 12.4347689 °S, 130.8321567 °E • Sewage pumping station (SP035) – Vesty's Beach 1. Discharge point: 12.4305953 °S, 130.8355978 °E 2. Final point: 12.4315167 °S, 130.8362544 °E • Sewage pumping station (SP045) – Waterfront 3 1. Discharge point: 12.4668309 °S, 130.8457405 °E 2. Final point: 12.4669531 °S, 130.8456035 °E (overflow chamber)

	• Sewage pumping station (SP094) – Northcrest 1. Discharge point: 12.4453071 °S, 130.9364064°E 2. Final point: 12.4474377 °S, 130.9366875 °E • Sewage pumping station (SP095) – Freds Pass Rd (Pankhurst) 1. Discharge point: 12.5814004 °S, 131.1062741 °E 2. Final point: 12.5813640 °S, 131.1063283 °E (overflow chamber) • Humpty Doo Wastewater Ponds (STP007) 1. Discharge point: 12.5923160 °S, 130.0978861 °E 2. Final point: 12.5936317 °S, 130.0978861 °E *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.* Public access is possible to discharge locations throughout Darwin. However, due to the weather conditions at the time, the likelihood of people visiting these areas was low. Prior to the overflows occurring, Power & Water had shared communications warning the public of the risk of sewer blockages and wastewater overflows because of the cyclone. The communications advised people to avoid flood waters and pooled water, as it could be contaminated by sewage. Clean up of areas affected by sewer discharge is consistent with Sewage Spills/Overflow Response Work Instruction as appropriate to the location, and to minimise risk to the environment.
(c) the date and time of the incident	*i. The time and date of commencement and cessation of the discharge.* Nearly all overflows started on 22/11/25. At the time of submitting this s14 notification, all overflows have completely ceased and been cleaned per Power & Water's Sewage Spills/Overflow Response Work Instruction, as appropriate to the location. Power & Water can confirm the commencement and final cessation times for the following overflows: • Sewage pumping station (SP042) - Nemarluk Drive, Ludmilla Started approx. 00:00hrs, 23/11/2025 Stopped approx. 20:00hrs, 25/11/2025 • Sewage pumping station (SP007) – Rapid Creek Road, Rapid Creek Started approx. 15:30hrs, 22/11/2025 Stopped approx. 07:00hrs, 24/11/2025 • Sewage pumping station (SP008) – Lakeside Drive, Alawa Started approx. 15:30hrs, 22/11/2025 Stopped approx. 23:00hrs, 25/11/2025 • Sewage pumping station (SP004) – Dick Ward Drive, Coconut Grove Started approx. 21:30hrs, 22/11/2025 Stopped approx. 09:30hrs, 24/11/2025 • Sewage pumping station (SP032) – Botanical Gardens Started approx. 17:30hrs, 22/11/2025 Stopped approx. 09:30hrs, 23/11/2025

	• Sewage pumping station (SP023) – Cullen Bay 1 Started approx. 18:00hrs, 22/11/2025 Stopped approx. 18:00hrs, 23/11/2025 • Sewage pumping station (SP024) – Cullen Bay 2 Started approx. 18:30hrs, 22/11/2025 Stopped approx. 17:00hrs, 23/11/2025 • Sewage pumping station (SP025) – Cullen Bay 3 Started approx. 21:30hrs, 22/11/2025 Stopped approx. 17:00hrs, 23/11/2025 • Sewage pumping station (SP061) – Darwin Business Park Started approx. 16:00hrs, 24/11/2025 Stopped approx. 10:00hrs, 25/11/2025 • Sewage pumping station (SP041) – Showgrounds Started approx. 20:30hrs, 22/11/2025 Stopped approx. 14:30hrs, 24/11/2025 • Sewage pumping station (SP034) – Ski Club Started approx. 18:30hrs, 22/11/2025 Stopped approx. 00:30hrs, 23/11/2025 • Sewage pumping station (SP035) – Vesty's Beach Started approx. 17:30hrs, 22/11/2025 Stopped approx. 07:00hrs, 25/11/2025 • Sewage pumping station (SP045) – Waterfront 3 Started approx. 11:00hrs, 23/11/2025 Stopped approx. 12:00hrs, 24/11/2025 • Sewage pumping station (SP094) – Northcrest Started approx. 21:30hrs, 22/11/2025 Stopped approx. 19:00hrs, 24/11/2025 • Sewage pumping station (SP095) – Freds Pass Rd (Pankhurst) Started approx. 19:30hrs, 22/11/2025 Stopped approx. 20:00hrs, 23/11/2025 • Humpty Doo Wastewater Ponds (STP007) Started approx. 14:30hrs, 22/11/2025 Stopped approx. 10:30hrs, 24/11/2025 *ii. How PWC were notified, or became aware of the discharge.* Due to the forecasted weather on 22 and 23 November, Power & Water anticipated that the sewage network would be inundated by inflow and infiltration of stormwaters. Prior to the weather impacts occurring, sewer relief valves were opened at strategic locations to relieve pressure on the network. Despite these efforts, several sewage pumping stations still overflowed. SCADA high-level alarms notified Power & Water operations staff of the overflows.

	iii. The process by which the discharge occurred. Due to the rainfall in the Darwin catchment as a result of Tropical Cyclone Fina, significant quantities of inflow and infiltration of stormwaters has diluted and increased volumes of sewage effluent in the sewerage system. As a result, highly diluted sewage effluent overflows have occurred from sewerage infrastructure. Power and Water was expecting this and had opened sewer relief valves at strategic points prior to the forecasted weather, to later relieve pressure in the system. While several sewage pumping stations still overflowed, the open relief valves prevented further stations from overflowing. It also prevented overflows within houses, and helped to minimise potential human health and environmental impacts. *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.* Where appropriate, signage is displayed to alert the public and fencing has been erected to prevent access to the sites, as per the Power & Water Sewage Spills/Overflow Response Work Instruction. *ii. Decontamination of the site as appropriate.* Clean up consistent with Sewage Spills/Overflow Response Work Instruction as appropriate to the location, and to minimise risk to the environment. Discharge sites inspected for any gross pollutants and removed as required.
(f) the identity of the person notifying the NT EPA	Power and Water Environmental Services team on behalf of Water Services

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Sewer overflow relief valve – 24 East Point Road, Parap

Sewer overflow relief valve - Corner of Trower Road and Rapid Creek Road, Rapid Creek

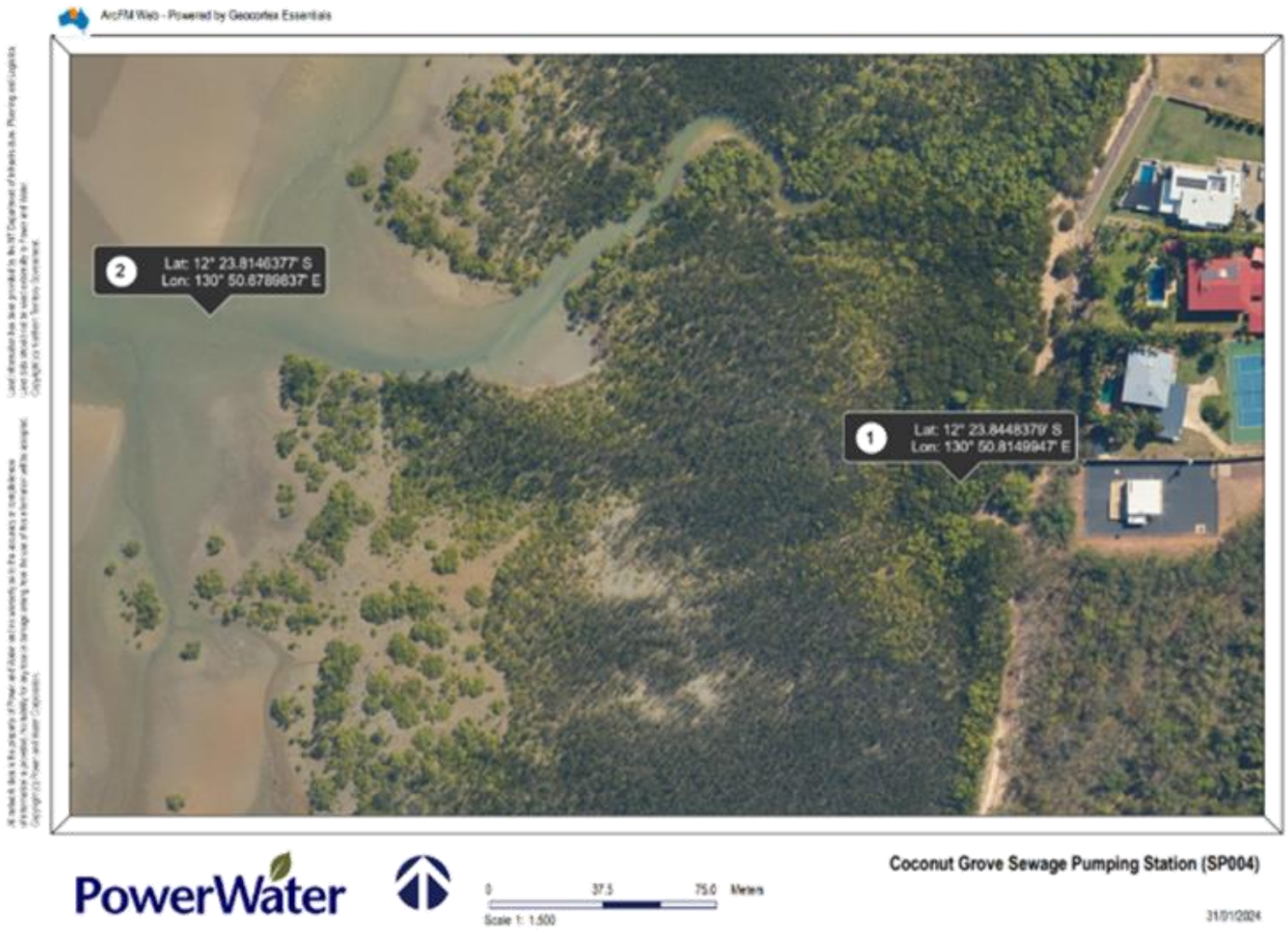
Sewer overflow relief valve - 194 Casuarina Drive/Aralia St, Nightcliff (jetty end)

Access Chamber 1/0, Fannie Bay – 39 East Point Rd, Fannie Bay

Sewage pumping station (SP042) – Nemarluk Drive, Ludmilla

Sewage pumping stations (SP007 & SP008) - Rapid Creek Rd, Rapid Creek & Lakeside Drive, Alawa

Sewage pumping station (SP004) – Dick Ward Dr, Coconut Grove



Sewage pumping station (SP032) – Botanical Gardens

Sewage pumping station (SP023) – Cullen Bay 1

Sewage pumping station (SP024) – Cullen Bay 2

Sewage pumping station (SP025) – Cullen Bay 3

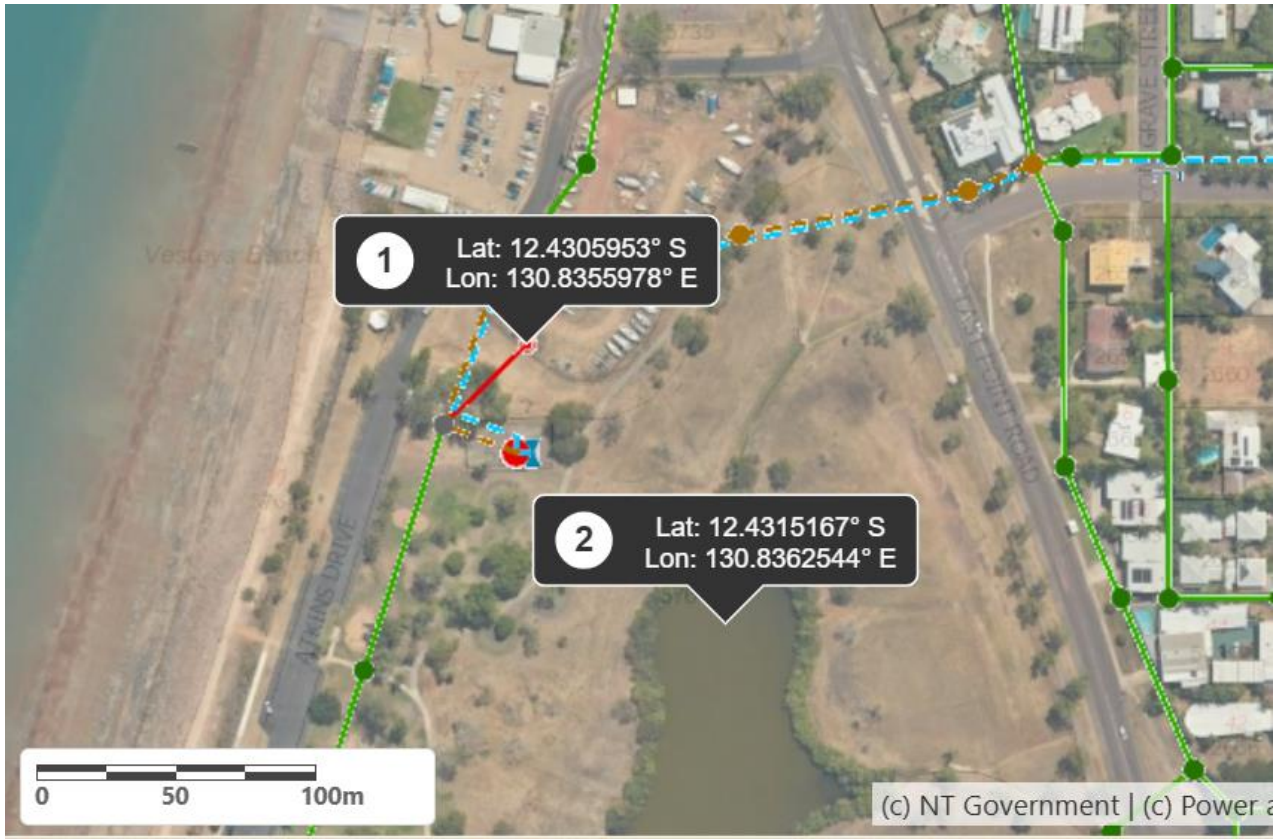
Sewage pumping station (SP061) – Darwin Business Park

Sewage pumping station (SP012) – Minmarama Park

Sewage pumping station (SP041) – Showgrounds

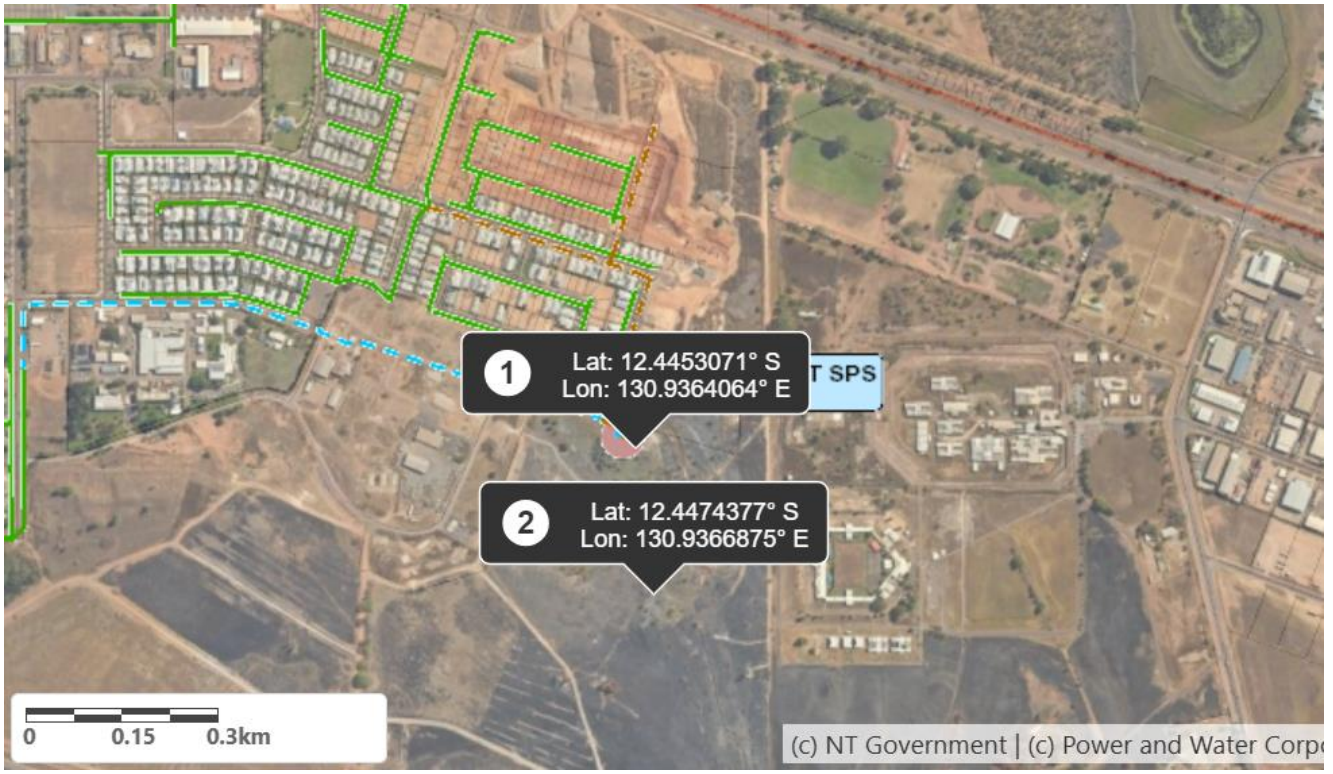
Sewage pumping station (SP034) – Ski Club

Sewage pumping station (SP035) – Vesty's Beach

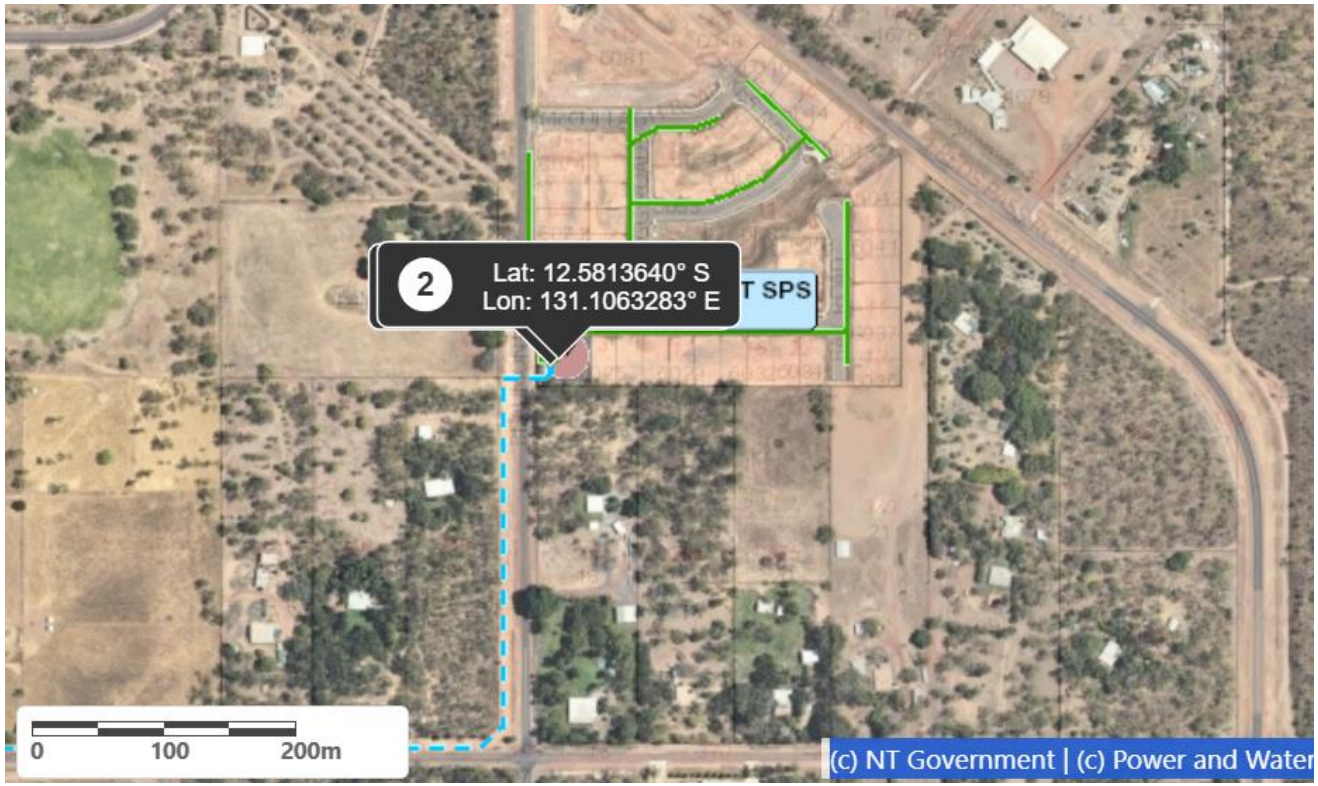


Sewage pumping station (SP045) – Waterfront 3

Sewage pumping station (SP094) – Northcrest



Sewage pumping station (SP095) – Freds Pass Rd (Pankhurst)



Humpty Doo Wastewater Ponds (STP007)