

19 November 2025

Director Petroleum Operations
Department of Lands, Planning and Environment
PO Box 3675
Darwin NT 0801

Attention: Ms Sally Strohmayer

Dear Ms Strohmayer

Re: Quarter 4 2025 – Groundwater Monitoring Results – Beetaloo Basin Drilling, Stimulation and Well Testing Program Environment Management Plan – Amungee NW (ORI10-3)

In accordance with the ministerial condition of approval 5 (ii) of the *Beetaloo Sub -Basin Multi-well Drilling, Stimulation and Well Testing Program Environment Management Plan* (ORI10-3) (Beetaloo Multi-well EMP), water quality results are provided to the Department of Lands, Planning and Environment (DLPE) 2 months after collection of Quarter 4 2025 monitoring event.

While not a requirement of the conditions of approval for the Beetaloo Multi-well EMP, statistical summaries comprising the interquartile ranges for the groundwater quality parameters identified in the Code of Practice are have been provided for the Amungee NW site (Table 2). The parameters for which the 75th percentile concentration in the impact monitoring bore exceeds the 75th percentile concentration in the control monitoring bore are highlighted.

Table 1: Quarter 3 2025 Groundwater quality monitoring result reporting summary

| Data required | Tamboran response |
|--|---|
| The title of the current plan the relevant approval conditions the submission of quarterly groundwater data is intended to satisfy | <i>Beetaloo Sub -Basin Multi-well Drilling, Stimulation and Well Testing Environment Management Plan</i> (ORI10-3) |
| Details of the relevant approval condition the notification of any groundwater monitoring results above the interquartile range is intended to satisfy | <p>Self-Reporting – noting:</p> <p>Condition 5: <i>In support of clause B.4.17.2 of the Code of Practice: Onshore Petroleum Activities in the Northern Territory, the interest holder must:</i></p> <p><i>ii. provide DEPWS, via Onshoregas.DLPE@nt.gov.au, the results of quarterly groundwater monitoring, as soon as practicable and no later than 2 months after collection, in a format determined by DLPE.¹</i></p> |

¹ Under the new Administration Arrangement Orders the following departmental name change has occurred - Department of Environment, Parks and Water Security (DEPWS) has been revised to Department of Lands Planning and Environment (DLPE). Email address – Onshoregas.DLPE@nt.gov.au

| Data required | Tamboran response |
|--|---|
| Information to demonstrate that the reporting has occurred within the timeframe specified in the relevant condition | Groundwater monitoring results that have been collected during the reporting period are submitted to DLPE post sampling event. The monitoring frequency of the groundwater program aligns with the Ministerial Condition 5i. which requires quarterly groundwater monitoring. |
| Statement on whether the analytical results are within or outside of natural variability of baseline groundwater quality | The analytical results from the Amungee NW Gum Ridge impact monitoring bore (RN043018) have recorded several results outside of the interquartile range of the control monitoring bore (RN040894). |
| Highlighting the data that are above the respective interquartile range for the relevant groundwater parameter/s | Eleven (11) chemical parameters measured in the impact monitoring bore were identified to exceed the 75th percentile of background concentrations (Table 2). The results of the statistical analysis, identifying the analytes that exceed the 75th percentile, is provided separately to this summary. |
| A summary and an analysis of causes for elevated groundwater monitoring results and actions taken to ensure that protection of groundwater is maintained | The 75th percentile exceedances observed from the impact monitoring bore are: <ul style="list-style-type: none"> • within the natural variability based on the hydrogeological conceptualisation of the Cambrian limestone aquifers; including likelihood of rainfall recharge entering the aquifer from the 2023/2024 and 2024/2025 wet season. • the low absolute concentrations where exceedances occur are within laboratory error ranges. • Results of groundwater monitoring confirm no material deterioration in groundwater quality associated with Tamboran’s activities. |
| The outcome of the risk review undertaken as a result of the notification, including an updated assessment of the occurrence likelihood and whether this changes the risk ranking. | The absolute concentrations where exceedances occur do not materially change the groundwater quality. There is no change to the risk ranking associated with the activity. |

A full compilation of water quality monitoring results across Tamboran’s sites has been provided with this report.

If you require any further information, please do not hesitate to email me.

Kind Regards



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Table 2: Amungee NW Gum Ridge Formation Bore Comparison Results, October 2025

Table 2 Amungee NW1 Gum Ridge Formation bore comparison October 2025

| Analyte | RN040894 (BET-MB019) Count Samples | EQL | EQL Units | Output Unit | RN040894 (BET-MB019) 75th percentile | RN043018 (BET-MB027) Concentration as of Last Sample Date 15/10/2025 | RN040894 (BET-MB019) to RN043018 (BET-MB027) Ratio | 75th Percentile Exceedance | Comment |
|--|------------------------------------|--------|-----------|-------------|--------------------------------------|--|--|----------------------------|---|
| Acenaphthene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Acenaphthylene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Alkalinity (Bicarbonate as CaCO3) | 21 | 1 | mg/L | mg/L | 417 | 378 | 0.91 | Complies | |
| Alkalinity (Carbonate as CaCO3) | 21 | 1 | mg/L | mg/L | <1 | <1 | NA | Complies | |
| Alkalinity (Hydroxide as CaCO3) | 21 | 1 | mg/L | mg/L | <1 | <1 | NA | Complies | |
| Alkalinity (Total) as CaCO3 | 21 | 1 | mg/L | mg/L | 417 | 378 | 0.91 | Complies | |
| Anthracene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Arsenic | 21 | 0.001 | mg/L | mg/L | <0.001 | <0.001 | NA | Complies | |
| Barium | 21 | 0.001 | mg/L | mg/L | 0.070 | 0.112 | 1.61 | Exceedance | Less than historical maximum, dynamic over time. |
| Benzo(a)anthracene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Benzene | 21 | 1 | µg/L | µg/L | <1 | <1 | NA | Complies | |
| Benzo(a)pyrene | 21 | 0.5 | µg/L | µg/L | <0.5 | <0.5 | NA | Complies | |
| Benzo(b+j)fluoranthene | 21 | 0.001 | mg/L | mg/L | <0.0010 | <0.0010 | NA | Complies | |
| Benzo(g,h,i)perylene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Benzo(k)fluoranthene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Boron | 21 | 0.05 | mg/L | mg/L | 0.163 | 0.130 | 0.8 | Complies | |
| C10 - C14 Fraction | 21 | 50 | µg/L | µg/L | <50 | <50 | NA | Complies | |
| C10 - C16 Fraction | 21 | 100 | µg/L | µg/L | <100 | <100 | NA | Complies | |
| C10 - C16 Fraction minus Naphthalene (F2) | 21 | 100 | µg/L | µg/L | <100 | <100 | NA | Complies | |
| C10 - C36 Fraction (Sum) | 21 | 50 | µg/L | µg/L | <50 | <50 | NA | Complies | |
| C10 - C40 Fraction (Sum) | 21 | 100 | µg/L | µg/L | <100 | <100 | NA | Complies | |
| C15 - C28 Fraction | 21 | 100 | µg/L | µg/L | <100 | <100 | NA | Complies | |
| C16 - C34 Fraction | 21 | 100 | µg/L | µg/L | <100 | <100 | NA | Complies | |
| C29 - C36 Fraction | 21 | 50 | µg/L | µg/L | <50 | <50 | NA | Complies | |
| C34 - C40 Fraction | 21 | 100 | µg/L | µg/L | <100 | <100 | NA | Complies | |
| C6 - C10 Fraction | 21 | 20 | µg/L | µg/L | <20 | <20 | NA | Complies | |
| C6 - C10 Fraction minus BTEX (F1) | 21 | 20 | µg/L | µg/L | <20 | <20 | NA | Complies | |
| C6 - C9 Fraction | 21 | 20 | µg/L | µg/L | <20 | <20 | NA | Complies | |
| Cadmium | 21 | 0.0001 | mg/L | mg/L | <0.0001 | <0.0001 | NA | Complies | |
| Calcium | 21 | 1 | mg/L | mg/L | 121 | 102 | 0.85 | Complies | |
| Chloride | 21 | 1 | mg/L | mg/L | 106 | 131 | 1.24 | Exceedance | Less than historical maximum, no discernible trend |
| Chromium (III+VI) | 21 | 0.001 | mg/L | mg/L | <0.001 | <0.001 | NA | Complies | |
| Chrysene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Copper | 21 | 0.001 | mg/L | mg/L | 0.0020 | <0.001 | NA | Complies | |
| Dibenz(a,h)anthracene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Dissolved Oxygen (Field) | 18 | 0.1 | mg/L | mg/L | 0.91 | 0.26 | 0.28 | Complies | |
| Electrical Conductivity (Field) | 19 | 1 | µS/cm | µS/cm | 1494 | 1602 | 1.07 | Exceedance | Small exceedance. Possible rising trend since April 2023 |
| Specific conductance (Field) | 14 | 1 | µS/cm | µS/cm | 1240 | 1305 | 1.05 | Exceedance | Small exceedance. Possible rising trend since April 2024 |
| Electrical Conductivity (Lab) | 20 | 1 | µS/cm | µS/cm | 1180 | 1160 | 0.98 | Complies | |
| Ethane | 20 | 10 | µg/L | µg/L | <10 | <10 | NA | Complies | |
| Ethylbenzene | 21 | 2 | µg/L | µg/L | <2 | <2 | NA | Complies | |
| Fluoranthene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Fluorene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Fluoride | 21 | 0.1 | mg/L | mg/L | 0.5 | 0.4 | 0.8 | Complies | |
| Gross alpha activity | 17 | 0.05 | Bq/L | Bq/L | 0.51 | 0.33 | 0.65 | Complies | |
| Gross beta activity (excluding activity of K-40) | 17 | 0.1 | Bq/L | Bq/L | 0.18 | 0.33 | 1.83 | Exceedance | Gross beta less 40K values are historically variable & although the most recent value is a historical maximum it is only slightly higher than the initial value of 0.29 Bq/L in Dec 2022 |
| Indeno(1,2,3-c,d)pyrene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Iron | 21 | 0.05 | mg/L | mg/L | 1.39 | 2.95 | 2.13 | Exceedance | Slight rising trend since April 2024, less than historical maximum and significantly less than previous value of 4.06 mg/L in July 29025 |
| Lead | 21 | 0.001 | mg/L | mg/L | 0.0020 | <0.001 | NA | Complies | |
| Lithium | 20 | 0.001 | mg/L | mg/L | 0.0550 | 0.049 | 0.89 | Complies | |
| Magnesium | 21 | 1 | mg/L | mg/L | 48 | 47 | 0.98 | Complies | |
| Manganese | 21 | 0.001 | mg/L | mg/L | 0.101 | 0.168 | 1.67 | Exceedance | Broadly declining trend, and significantly lower than historical maximum |
| Mercury | 21 | 0.0001 | mg/L | mg/L | <0.0001 | <0.0001 | NA | Complies | |
| Methane | 20 | 0.01 | mg/L | mg/L | <0.01 | 0.014 | >1.4 | Exceedance | Trace level of methane detected. Dynamic but possibly stabilising trend. |
| Naphthalene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Nitrate (as N) | 21 | 0.01 | mg/L | mg/L | 0.02 | 0.020 | 0.89 | Complies | |
| Nitrite (as N) | 21 | 0.01 | mg/L | mg/L | <0.01 | <0.01 | NA | Complies | |
| Nitrite + Nitrate (as N) | 11 | 0.01 | mg/L | mg/L | 0.03 | 0.02 | 0.62 | Complies | |
| pH (Lab) | 20 | 0.01 | pH Unit | pH Units | 7.49 | 7.25 | 0.97 | Complies | |
| pH (Field) | 21 | 0.01 | pH Unit | pH Units | 6.80 | 7.02 | 1.03 | Exceedance | Very small exceedance, within calibration and measurement error. Possible slight rising trend since February 2025 |
| Phenanthrene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Potassium | 21 | 1 | mg/L | mg/L | 10 | 26 | 2.54 | Exceedance | Dynamic but possibly declining / stabilising trend. Less than historical maximum |
| Propane | 20 | 0.01 | mg/L | mg/L | <0.01 | <0.01 | NA | Complies | |
| Pyrene | 21 | 1 | µg/L | µg/L | <1.0 | <1.0 | NA | Complies | |
| Selenium | 21 | 0.01 | mg/L | mg/L | <0.01 | <0.01 | NA | Complies | |
| Silicon as Si | 19 | 0.05 | mg/L | mg/L | 14.4 | 13.1 | 0.91 | Complies | |
| Silver | 21 | 0.001 | mg/L | mg/L | <0.001 | <0.001 | NA | Complies | |
| Sodium | 21 | 1 | mg/L | mg/L | 69 | 70 | 1.01 | Exceedance | Only very minor exceedance and less than historical maximum |
| Strontium | 21 | 0.001 | mg/L | mg/L | 0.670 | 0.621 | 0.93 | Complies | |
| Sulphate as SO4 | 19 | 1 | mg/L | mg/L | 133 | 118 | 0.89 | Complies | |
| Sum of BTEX | 21 | 1 | µg/L | µg/L | <1 | <1 | NA | Complies | |
| Suspended Solids | 21 | 5 | mg/L | mg/L | 9 | <5 | NA | Complies | |
| Temperature (Field) | 19 | 0.1 | °C | °C | 36.15 | 38.00 | 1.05 | Exceedance | Most recent result slightly greater than 1 deg C above previous four measurements, and greater than earlier historical values. In contrast <i>in situ</i> temperatures observed by groundwater loggers show relative stability. Likely due to different purge durations |
| Toluene | 21 | 2 | µg/L | µg/L | <2 | <2 | NA | Complies | |
| Total Dissolved Solids | 21 | 10 | mg/L | mg/L | 750 | 757 | 1.009 | Exceedance | Variable historical concentrations with no definable trend. Less than historical maximum |
| Total Reportable PAH | 20 | 0.5 | µg/L | µg/L | <0.5 | <0.5 | NA | Complies | |
| Xylene (m & p) | 21 | 2 | µg/L | µg/L | <2 | <2 | NA | Complies | |
| Xylene (o) | 21 | 2 | µg/L | µg/L | <2 | <2 | NA | Complies | |
| Xylene Total | 21 | 2 | µg/L | µg/L | <2 | <2 | NA | Complies | |
| Zinc | 21 | 0.005 | mg/L | mg/L | 0.015 | 0.017 | 1.17 | Exceedance | Variable historical concentrations with no definable trend. Less than historical maximum |