

Technical Note

Project title Bromelton Energy and Resource Centre
Job number 293683-00
File reference BERC-ARUP-RFI-9-11
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Subject RFI 9 & 11 – Onsite services

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No. 9	Issue: On-site wastewater
Information Requested The Engineering (Infrastructure) report submitted as part of the application material (dated 19 December 2025, Reference BERC-ARU-BNE-ENG-RPT-0001) Section 3.2.3.2 states that the concept design provisions include a 25,000 L sewer holding tank capacity serving the EfW building and a 5,000 L sewer retention capacity serving the IBA sorting building. Although the report notes these details are shown in concept engineering drawing BERC-ARU-BNE-CICW-DRG-1801, this drawing does not appear to be included in the documents available. It is noted that the proposed development is intended to connect to future trunk wastewater when it becomes available. The proponent is requested to provide the following information to confirm compliance with the Seqwater development guidelines: • Include details regarding if the effluent wastewater is proposed to be pre-treated prior to storage, or if raw sewage is proposed to be stored on site, for treatment and disposal off-site The referenced engineering concept drawing (BERC-ARU-BNE-CICW-DRG-1801) which includes the location of the effluent wastewater storage on the site.	

Response

The referenced engineering concept drawing (BERC-ARU-BNE-CICW-DRG-1801), which illustrates the location and arrangement of the proposed effluent wastewater storage infrastructure, was inadvertently omitted from the previously submitted documentation. This drawing has been included in Appendix B of the updated Engineering (Infrastructure) report (BERC-ARU-BNE-ENG-RPT-0001 Rev D).

The proposed sewer servicing strategy comprises on-site storage of raw sewage within dedicated holding tanks, including a 25,000 L tank serving the EfW building and a 5,000 L tank serving the IBA sorting building, as outlined in Section 3.2.3.2 of the report. The stored wastewater is not proposed to be pre-treated prior to storage and will be periodically removed from site for off-site treatment and disposal by a licensed contractor.

This approach has been adopted as an interim servicing solution pending the availability of future trunk wastewater infrastructure in the Bromelton SDA precinct.

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Bromelton Energy and Resource Centre

Date

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No. 11	Issue: Water supply
Information Requested Seqwater is currently evaluating the capacity of the Beaudesert WTP with regards to the proposed development's projected water usage. Seqwater reiterates its concerns surrounding interim uncertainty of supply until 2032 (optimally, possibly later), particularly for large water users. These concerns relate to both the construction and operational phases of the proposed BERC, with estimated water demand during construction not provided, and during operation estimated at 0.5ML/d (approximately 180 ML/per annum) from day one. Continued coordination and communication are required to ensure water supply is viable for operation of the development, considering full water flow rate is expected for day one of operations. The proponent is requested to provide further details regarding the expected water usage during the construction phase of the development and approximate timeframes for construction of the proposed facility.	

Construction of the proposed development is anticipated to commence in 2028, with a construction period of approximately three years. This will be followed by commissioning and proof-of-performance testing, with operations expected to commence in 2032.

Water demand during the construction phase will be temporary and associated with standard construction activities. These include:

- Potable and non-potable water for construction personnel
- Dust suppression and embankment conditioning during earthworks and road construction
- Washdown of concrete trucks and construction equipment prior to exiting the site
- General site maintenance and ancillary construction uses.

Indicative estimates of construction water demand have been developed to inform this response, noting that actual requirements will depend on the final construction methodology, staging and Contractor practices.

Potable water demand associated with the construction workforce is expected to be relatively minor. Assuming typical usage rates of approximately 20 L/person/day, and workforce of 150-200 people, potable demands are estimated to be in the order of 3–4 kL/day.

The primary component of construction water demand is expected to be dust suppression and earthworks activities. Based on indicative application rates of approximately 1–2 L/m²/day and an estimated disturbed area of approximately 226,000 m², daily water demand for dust suppression could range from approximately 226 kL/day to 452 kL/day, with higher values more likely during dry weather conditions typical of the region.

On this basis, monthly water usage associated with earthworks may be in the order of approximately 6.8 ML to 13.6 ML. Over an indicative earthworks and bulk construction period of approximately 12 months, total water demand for these activities could be in the order of approximately 80 ML. These estimates are indicative only and will be refined during detailed design and construction planning.

Water supply during construction may be sourced via connection to the Queensland Urban Utilities (QUU) potable water network, subject to detailed design and approvals. Where a network connection is not available or practical during early stages, water may be supplied via licensed water carting (tankering).

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The proponent will seek to minimise reliance on high-quality potable water during construction where feasible. This includes consideration of alternative water sources (e.g. lower-quality or non-potable supplies) and implementation of best-practice water efficiency measures, such as reuse of captured stormwater or sourcing from on-site farm dams for dust suppression.

If approved, ongoing coordination with Seqwater and Queensland Urban Utilities will continue throughout detailed design, construction, and operation to ensure that both construction and operational water demands can be appropriately managed.