

Kempsey Shire Council
22 Tozer Street
West Kempsey NSW 2440

Approval number: 14564

Notice of determination

Section 60 approval for construction of Steuart McIntyre Dam Water Treatment Plant and associated infrastructure.

I am writing to inform you that on the 16th of August 2023, I, the Director Local Water Utilities, as delegate of the Minister for Lands and Water, in accordance with section 60 (b) of the Local Government Act 1993, have granted approval for the construction of the Steuart McIntyre Dam Water Treatment Plant and associated infrastructure.

The approval is subject to the following conditions:

- Consistency with design - a local water utility can only construct drinking water treatment works that are consistent with those approved. Some degree of variation is acceptable to ensure that the practical realities associated with design and construction are accounted for.
- Consistency with standards - local water utilities must always adhere to any relevant legal, regulatory, industry or technical standards in completing the works (including environmental planning requirements where relevant).

The approval operates from 16th of August 2023.

Scope of approval

The approved treatment works include:

- The design of preferred option for the proposed WTP is described in the Concept Design Report (12588286-RPT-3_Concept Design Report), the Design and Construct Specification (12588286-SPC-2-SMD D&C Technical Specification) and Process and Instrumentation Drawings (12548254-SMD PID Updated 090623.pdf).
- The treatment plant capacity is 12 ML/d (over 22 hours) and is capable of:
 - Meeting health and aesthetic parameters described in "Table 5 (Section 3.2.5): Treated Water Requirements" of 12588286-SPC-2-SMD D&C Technical Specification.
 - Continuously achieving a minimum pathogen log reduction of 5.5 log removal for protozoa, 6 log removal for bacteria, and 6 log removal for viruses.
- The preferred option design includes the following treatment processes:
 - Aerator for stripping carbon dioxide from the raw water
 - Raw Water Storage Tank

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- Powdered Activated Carbon (PAC) dosing
 - Coagulation using (aluminium chlorohydrate (ACH) or alum)
 - Polymer dosing for main plant and centrifuges
 - Flocculation
 - In-filter Dissolved Air Floatation Filtration (DAFF) with media filters
 - UV disinfection
 - Gas chlorination
 - Fluoride dosing
 - Lime dosing
 - Wash water tank and transfer pumps
 - Sludge thickener
 - Sludge dewatering centrifuges
- The scope of works for this determination is limited to the preferred option. The alternate options have not been assessed as a part of this determination.
 - Works not included in the scope of approval include:
 - Future Expansion to 18ML/day has not been assessed as a part of this determination.
 - Fluoridation will need to be assessed and approved by NSW Health.

Reviews/ appeals

Section 9 of the Regulatory and Assurance Framework for Local Water Utilities outlines the review process for decisions made by the delegated departmental decision maker. Should your council wish to review part or whole of this decision then make contact with the contact officer below.

The department will monitor the conditions attached to your approval.

Your contact officer for this approval is Duncan Harrison who can be contacted via email at duncan.harrison@dpie.nsw.gov.au.

Sincerely



Sascha Moege

A/Director Local Water Utilities
Department of Planning and Environment - Water