



19 January 2024

Jessie Evans
Director – Resource Assessments
Department of Planning and Environment

Greg Newman
Unit Head – Metropolitan South
NSW Environment Protection Authority

Dear Jessie and Greg,

Re: Tahmoor South SSD 8445: Water Treatment Plant Progress Report

This letter provides a 6 monthly update on the progress of the Water Treatment Plant (WTP) submitted to DPE and EPA, as required by Development Consent SSD 8445 Clause B30a. The progress of the WTP is given below with updates to items listed in SSD8445 Clause B30A;

(a) An update of the shipping and delivery schedule of the WTP components:

All components have been shipped and delivered to site.

(b) A description of the WTP construction to date:

All civil and infrastructure works have been completed. Please refer to photos below of the WTP.

(c) A revised WTP project timeline:

The construction of the plant has been completed and the plant has produced permeate as part of the commissioning phase. Commissioning is ongoing on the automation processes and fine-tuning water balance and cleaning processes. This is expected to be completed by March 2024, and the plant operating continuously at this time.

(d) Forecasted completion date of the WTP commissioning:

As above.

Preliminary WTP discharge quality results are given in Table 1 below. Initial results are positive and within the ANZECC Guidelines in accordance with Special Condition E1 EPL 1389. If you require further information, please do not hesitate to contact me on mobile: 0438 284 106 or email: zina.ainsworth@simecgrg.com.

Yours sincerely,

Zina Ainsworth
Environment and Community Manager

Table 1: Preliminary Permeate Commissioning Sample Results:

Date	pH	EC ($\mu\text{S}/\text{cm}$)	CaCO ₃ (mg/L)	Aluminium (dissolved) ($\mu\text{g}/\text{L}$)	Barium (dissolved) ($\mu\text{g}/\text{L}$)	Copper (dissolved) ($\mu\text{g}/\text{L}$)	Nickel (dissolved) ($\mu\text{g}/\text{L}$)	Zinc (dissolved) ($\mu\text{g}/\text{L}$)	Total Nitrogen ($\mu\text{g}/\text{L}$)	Arsenic (dissolved) ($\mu\text{g}/\text{L}$)
E1 Limits	6.5-8.0	350	185	55	700	1.4	11	8	250	24
18.12.23	7.35	51	<1	<10	<1	<1	<1	<5	200	1
16.01.24	6.85	51	29	<10	<1	<1	<1	<5	<100	<1

Note: E1 Concentrations are listed within Table 2 of Special Condition E1.1 of EPL 1389.

WTP Photos:



Photo 1: Internal of the WTP Shed, Reverse Osmosis (RO) skid installed, chemical storage (right)



Photo 2: Internal of the WTP Shed, Ion Exchange



Photo 3: External of the WTP shed, SUF tanks in the centre of picture



Photo 4: External of WTP shed, (right of frame) chemical unloading area and salt pit, new tanks at rear of shed