

71. Tullah STP

71.1 Activity and report details

Activity name	Tullah STP		
Activity address	Ardyn St, Tullah		
Permit number	Licence to Operate - 3638	Date of issue	1/03/1989
EPN	8089/1	Date of issue	13/05/2011
Treatment level	Secondary Treatment		
Authorised dry weather flows	243 kL/day		
Key influent source	Residential		
Contact person	Kate Westgate (Manager Environmental Performance)		
Report author	Jake Crisp (Environmental Scientist)		
Contact details	Environment@taswater.com.au		
Date of submission	30 September 2025		

Figure 71-1: Tullah Sewage Treatment Plant



71.2 Monitoring and compliance summary

71.2.1 Flow data

Table 71-A: Flow monitoring summary

	Influent	Effluent	Reuse
Location name	Plant Influent	Lake Rosebery	No reuse scheme
Coordinates	E 384880 N 5378891	E 384751 N 5378941	NA
Method of measurement	In line meter	In line meter	NA
Date of last calibration/validation (if applicable).	27/03/2025	27/03/2025	NA

Table 71-B: Annual flow and rainfall data

Month	Average daily influent volume (kL/day)	Rainfall (mm/month) BOM Station ID 97093	Discharge to waters total effluent volume (ML)	Discharge to reuse total effluent volume (ML)
July 2024	68	140.6	2.10	--
August 2024	219	333.6	9.91	--
September 2024	337	382	15.89	--
October 2024	99	147.4	3.03	--
November 2024	130	156.4	3.65	--
December 2024	113	214.6	3.62	--
January 2025	62	36.2	1.02	--
February 2025	53	51.4	1.48	--
March 2025	29	55.6	0.90	--
April 2025	51	72.8	1.53	--
May 2025	71	166.6	2.19	--
June 2025	87	132.2	2.60	--
Annual 2024-25	110	1889.4	47.90	0.00
% of total discharge	--	--	100.0%	0.0%

2024-25 monthly flow data was submitted directly to the EPA.

71.3 Bypass events

There were no bypass events associated with the STP during the reporting period.

71.4 Discharge compliance with permit limits

Table 71-C: Compliance summary

Parameter	Ammonia	BOD5	Chlorine	Nitrogen	Oil and grease	pH	Phosphorous	E coli	Total suspended solids
Permit/EPN limit	mg/L	mg/L	mg/L	mg/L	mg/L	Units	mg/L	MPN/100mL	mg/L
Maximum	--	40	--	30	10	8.5	10	2000	50
90th percentile	--	--	--	--	--	--	--	--	--
50th percentile	--	--	--	--	--	--	--	--	--
Minimum	--	--	--	--	--	6.5	--	--	--
Samples analysed									
Number required	12	12	--	12	12	12	12	12	12
Number analysed	12	12	--	12	12	12	12	12	12
Statistical summary									
Maximum	12.3	41.0	0.0	25.1	1.6	9.8	5.1	145.0	92.0
90th percentile	9.3	35.8	0.0	20.2	1.3	8.9	4.8	107.6	61.2
50th percentile	3.8	16.5	0.0	10.8	1.0	7.4	3.5	39.0	21.7
Minimum	0.1	5.0	0.0	3.8	1.0	7.1	1.2	10.0	7.9
EPN limit compliance									
% compliance with maximum	--	92%	--	100%	100%	83%	100%	100%	83%
% compliance with 90th percentile	--	--	--	--	--	--	--	--	--
% compliance with 50th percentile	--	--	--	--	--	--	--	--	--
% compliance with pH range	--	--	--	--	--	83%	--	--	--

Note: Percentages reflective of complete data set for the year.

Table 71-D: Mass loads to the environment

Mass Loads	EPN limit	Frequency	2024-25 result
Nitrogen (kg)	--	Annual	586.6
Phosphorous (kg)	--	Annual	121.9
Method	Time weighted/grab sample method		

Table 71-E: Performance analysis (discharge to environment)

Effluent compliance parameter	Date(s) of non-compliance	Reasons for non-compliance	Actions to improve performance
pH	3/03/2025 5/05/2025	Elevated levels of algae are considered the main contributor to increased pH, BOD and TSS. Through photosynthesis, algae absorb carbon dioxide and produce oxygen, which can influence pH levels in the effluent. As the algal biomass accumulates and decomposes, it adds to the organic load, leading to elevated BOD and TSS.	No specific actions
TSS	9/01/2025 24/02/2025		
BOD	9/01/2025		

No other parameters had exceedances in the reporting period.

71.5 Reuse annual reporting

No Recycled Water Scheme associated with this STP.

71.6 Ambient monitoring program

Table 71-F: Program details

Program	Tullah STP Ambient Monitoring Plan.
Status	Ongoing triennial, seasonal (winter and summer) ambient water quality monitoring within the Lake Rosebery receiving environment.
Update	Triennial seasonal (late spring/early autumn) ambient water quality monitoring undertaken in accordance with recommendations in the last Ambient Monitoring Report. No ambient monitoring undertaken during the reporting period.
Comments	Triennial seasonal ambient monitoring is scheduled for FY 2025/26.

71.7 Groundwater monitoring

Site status: Green (2023–24)

Tullah groundwater monitoring network consists of five monitoring bores, ID numbers TUGW1–5. Bore ID TUGW4 and 5 are located on the south–western corner of Lagoon 2 with bore ID TUGW2 located on the northern western corner.

Bi–annual sampling was completed at bore ID’s TUGW1–2 and TUGW4 and the surface waters of STP Lagoon 2 in December 2024 and May 2025 as scheduled. One round of sampling was completed at bore ID TUGW5 in December 2025 (6–monthly) as the bore was dry in May 2025 and one round at STP Lagoon 1 in May 2025 (annual). No samples were collected from Bore ID TUGW3 as the bore remained dry.

The 2024–25 groundwater monitoring event report is due in September 2025. Any actions required following a review of the report will be provided by 21 January 2026 in the groundwater Summary Actions Report (SAR).

6–monthly sampling at the extended analytical suite is schedule to continue at all four bores during the 2024–25 groundwater monitoring program.

71.8 Inflow and infiltration (I&I)

The latest revision to the TasWater Inflow and Infiltration Management Plan includes details of the actions undertaken statewide to address I&I issues.

A Multi Criteria Assessment was undertaken by TasWater in 2024 to prioritise I&I investigation and works state–wide. This catchment was ranked 74 out of 108 in priority.

71.9 Sludge and biosolids

The latest revision to the Sewage Sludge Management Plan (SSMP) includes full details of the actions undertaken during the reporting period, the most recent sludge profiling

results, and upcoming annual desludging program. This STP was assessed as compliant with the 2024–25 SSMP.

Sludge at this STP is captured within the two treatment lagoons, which will be periodically desludged as required. No stockpiling occurs at this site.

Table 71-G: Desludging status and comments

Desludging status	Comments
Low Priority	Lagoons 1 and 2 will not require desludging in the foreseeable future.

71.10 Non-compliance with other permit requirements

Table 71-H: EPN non-compliances

EPN condition	Description of non-conformance	Future actions to be taken
EF2 Effluent quality limits for discharge to water	Discharge compliance with permit limits.	See section 71.4 Discharge compliance with permit limits and Performance Analysis.
M4 Flow Monitoring Equipment	The effluent flow meter was commissioned in late 2021 but was not added to the annual preventative maintenance flow meter verification schedule; hence, the last verification of December 2021.	TasWater has added the effluent flow meter to the preventative maintenance schedule for verification around March 2025.

71.11 Complaints and incident reporting

No incidents or complaints reported during the reporting period.

71.12 Any other relevant information

Table 71-I: Projects or significant operational events that occurred in FY24–25

Project or significant operational event	Progress
West Coast Sewerage Master Plan	The West Coast Sewerage Regional Master Plan has been completed and outlines both short- and long-term considerations for the Tullah STP with the STP retained long-term to service the catchment.

For further information on Tullah STP please contact TasWater on 13 6992

www.taswater.com.au