

50. Risdon Vale STP

50.1 Activity and report details

Activity name	Risdon Vale STP		
Activity address	Grass Tree Hill Road, East Risdon, Hobart		
Permit number	Licence to Operate – 3506	Date of issue	17/10/1990
EPN	9207/1 8535/1 (Ambient)	Date of issue	21/07/2017 05/03/2013
Treatment level	Secondary Treatment		
Authorised dry weather flows	1000 kL/day		
Key influent source	Residential/Industrial 1 x Category 4 Customer		
Contact person	Kate Westgate		
Report author	George Fitzgibbon		
Contact details	Environment@taswater.com.au		
Date of submission	30 September 2025		

Figure 50-1: Risdon Sewage Treatment Plant



50.2 Monitoring and compliance summary

50.2.1 Flow data

Table 50-A: Flow monitoring summary

	Influent	Effluent	Reuse
Location name	Inlet	Derwent River	No reuse scheme
Coordinates	E 526258 N 5259216	E 525930 N 5258575	NA
Method of measurement	In Line	In Line	NA
Date of last calibration/validation (if applicable)	17/03/2024	17/03/2024	NA

Table 50-B: Annual flow and rainfall data

Month	Average Daily Influent Volume (kL/day)	Rainfall (mm/month) BOM Station ID 94271	Discharge to Waters Total Effluent Volume (ML)	Discharge to Reuse Total Effluent Volume (ML)
July 2024	1,505	80.8	35.38	--
August 2024	1,257	58	32.40	--
September 2024	1,643	62.6	39.56	--
October 2024	1,157	41	30.82	--
November 2024	1,062	20.6	31.87	--
December 2024	1,367	101.2	33.37	--
January 2025	1,037	22	27.18	--
February 2025	1,037	7.4	27.30	--
March 2025	1,015	16.8	23.56	--
April 2025	1,105	40.6	21.74	--
May 2025	1,125	43.2	15.68	--
June 2025	1,330	41.4	23.52	--
Annual 2024-25	1,221	535.6	342.37	0.00
% of Total Discharge	--	--	100.0%	0.0%

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

50.3 Bypass events

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

50.4 Discharge compliance with permit limits

Table 50-C: Compliance Summary

Parameter	Ammonia	BOD ₅	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	5	15	1.0	10	5	8.5	10	750	20
90th Percentile	--	--	--	--	--	--	--	--	--
50th Percentile	--	--	--	--	--	--	--	--	--
Minimum	--	--	--	--	--	6.5	--	--	--
Samples analysed									
Number required	12	12	12	12	12	12	12	12	12
Number analysed	12	12	13	12	12	12	12	12	12
Statistical summary									
Maximum	13.9	25.0	0.9	20.4	2.9	7.4	6.8	24196	12.8
90th percentile	2.7	14.8	0.8	16.3	1.2	7.1	5.3	661.1	11.3
50th percentile	0.5	8.0	0.4	6.5	1.0	7.0	4.2	41	7.9
Minimum	0.2	5.0	0.2	2.8	1.0	6.4	0.7	10	4.0
EPN Limit Compliance									
% compliance with Maximum	92%	92%	100%	75%	100%	100%	100%	92%	100%
% compliance with 90th percentile	--	--	--	--	--	--	--	--	--
% compliance with 50th percentile	--	--	--	--	--	--	--	--	--
% compliance with pH range	--	--	--	--	--	83%	--	--	--

Table 50-D: Mass loads to the environment

Mass Loads	EPN Limit	Frequency	2024-25 result
Nitrogen (kg)	--	Annual	3341.0
Phosphorous (kg)	--	Annual	1254.5
Method	Time weighted/Grab sample method		

No parameters had exceedances in the reporting period.

Table 50E: Performance analysis (discharge to environment)

Effluent compliance parameter	Date(s) of non-compliance	Reasons for non-compliance	Actions to improve performance
Nitrogen	29/08/2024 10/07/2024 15/08/2024	Impacted by poor secondary treatment performance due to aeration optimisation issues	Reduced by lowering level in oxidation ditch.
E. coli	15/08/2024		
pH	18/02/2025 15/08/2024	Unknown.	No specific action.

50.5 Reuse Annual Reporting

No Recycled Water Scheme associated with this STP.

50.6 Ambient monitoring program

Table 50-E: Program details

Program	NA – No requirement for ambient monitoring in the reporting period
Status	NA
Update	NA
Comments	NA

50.7 Groundwater monitoring

No groundwater monitoring program associated with this STP.

50.8 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 31 out of 108 in priority.

50.9 Sludge and biosolids

The latest revision to the Sewage Sludge Management Plan (SSMP) includes full details of the actions undertaken during the reporting period. This STP was assessed as compliant with the 2024-25 SSMP.

There are no operational sludge/biosolids dewatering facilities at this site, with sludge transferred via liquid sludge transport to the Prince of Wales Bay and Macquarie Point STPs for additional treatment. A total of 3828.6kL of sludge was removed during the reporting period.

No stockpiling occurs at this site.

Table 50-G: Liquid sludge transfers from Risdon Vale STP

Receiving STP	Volume (kL)
Macquarie Point STP	2312.8
Prince of Wales STP	1515.8
TOTAL	3828.6

50.10 Non-compliance with other permit requirements

Table 50-F: EPN non-compliances

EPN condition	Description of non-conformance	Future Actions to be taken
EPN 8535/1		
Discharge Management Plan	Discharge Management Plan overdue.	TasWater acknowledges the non-compliance associated with the DMP condition. We are working towards the intent of the EPN condition to prioritise discharge risk reduction projects in line with our EPA endorsed Wastewater Risk Management Plan and Price and Service Plan process.

50.11 Complaints and incident reporting

No complaints reported during the FY2024-25 reporting period.

Table 50-I: Complaints

Date	Category	Details	Mitigation actions
01/08/2024	Odour	Strong sewer odour from the sewer ponds	Crews have inspected. Checked surrounding manholes and spoke to neighbouring residents. Checked pump station and investigated down at the settling ponds and no odour was detected there.

Table 50J:- Incidents

Date	Category	Details	Mitigation actions
28/08/2024	Mechanical	Clarifier was taken offline due to urgent repairs being required. It was offline for approximately 1 week. There was some solids carry over due to this and effluent quality was impacted.	Rectified and back online

50.12 Any other relevant information

Table 50K:- Projects or significant operational events that occurred in FY 2024-25:

Project or significant operational event	Progress
Derwent Hobart Sewerage Regional Master Plan	The Derwent Hobart Sewerage Regional Master Plan has been completed and outlines both short- and long-term considerations for the Risdon Vale STP.
Modifications to drying beds roof	Completed

For further information on Risdon Vale STP please contact TasWater on 13 6992

www.taswater.com.au