27 Hoblers Bridge STP

27.1 Activity and report details

Activity name	Hoblers Bridge STP		
Activity address	Hoblers Road, Newstead, Launceston		
Permit number	Licence to Operate - 3383	**Date of issue**	26/10/1992
EPN	8103/1	**Date of issue**	12/06/2013
Treatment level	Secondary Treatment		
Authorised Dry Weather Flows	4500 kL/day		
Key Influent Source	Residential/Industrial 2 x Category 2 Customers		
Contact person	Kate Westgate		
Report author	George Fitzgibbon		
Contact details	Environment@taswater.com.au		
Date of submission	30 September 2023		

Figure 27--1: Hoblers Bridge Sewage Treatment Plant

27.2 Monitoring and compliance summary

27.2.1 Flow data

Table 27-A: Flow monitoring summary

	Influent	Effluent	Reuse
Location Name	Inlet	North Esk River	No reuse scheme
Coordinates	E 514168 N 5412693	E 514202 N 5412599	NA
Method of Measurement	Flow Meter (continuous measurement)	Estimate based on influent	NA
Date of last Calibration/Validation (if applicable).	28/07/2022	28/07/2022	NA

Table 27-B: Annual flow and rainfall data

Month	Average Daily Influent Volume (kL/day)	Rainfall (mm/month) BOM Station ID 91237	Discharge to Waters Total Effluent Volume (ML)	Discharge to Reuse Total Effluent Volume (ML)
July 2022	3,111	27.6	96.45	--
August 2022	3,111	75.5	142.53	--
September 2022	3,256	49.2	97.69	--
October 2022	3,425	116.2	106.18	--
November 2022	3,055	59.8	91.64	--
December 2022	2,619	42.6	81.20	--
January 2023	2,555	41.2	79.22	--
February 2023	2,655	23.3	74.35	--
March 2023	2,996	72.0	92.89	--
April 2023	2,885	27.6	86.54	--
May 2023	2,825	23.5	87.56	--
June 2023	4,061	119.0	121.84	--
Annual 2022-23	3,047	677.5	1,158.08	--
% of Total Discharge	--	--	100.0%	--

2022-23 monthly flow data was submitted directly to the EPA.

27.2.2 Bypass events

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

27.3 Discharge compliance with permit limits

Table 27-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	30	20	1.5	40	10	8.5	12	1000	30
90th percentile	--	--	--	--	--	--	--	--	--
50th Percentile	--	--	--	--	--	--	--	--	--
Minimum	--	--	--	--	--	6.5	--	--	--
Samples analysed									
Number required	12	12	12	12	12	12	12	12	12
Number analysed	12	12	12	12	12	12	12	12	12
Statistical summary									
Max	7.3	18	1.46	32.8	1.9	7.0	7.2	7270	15.6
90th percentile	4.2	17	1.29	30.1	1.5	6.9	6.5	595	12.0
50th percentile	1.8	11	1.01	24.5	1.0	6.7	5.3	26	7.9
Min	0.3	5	0.72	10.4	1.0	6.4	3.0	10	4.0
EPN Limit Compliance									
% compliance with Maximum	100%	100%	100%	100%	100%	--	100%	92%	100%
% compliance with 90th percentile	--	--	--	--	--	--	--	--	--
% compliance with 50th percentile	--	--	--	--	--	--	--	--	--
% compliance with pH range	--	--	--	--	--	92%	--	--	--

Table 27-D: Mass loads to the environment

Parameter	EPN Limit	Frequency	2022-23 result
Nitrogen (kg)	--	Annual	26552.4
Phosphorous (kg)	--	Annual	5766.5
Method	Flow weighted/Composite method		

Table 27-E: Performance Analysis (Discharge to environment)

Effluent compliance parameter	Date(s) of non-compliance	Reasons for non-compliance	Actions to improve performance
E. coli	06/07/2022	Limitations in the flow paced chlorine control system result in poor performance when dose rates are not automatically adjusted to demand.	Regular monitoring of chlorine residual to ensure sufficient chlorine dose rate.
pH	08/02/2023	Low effluent pH is due to variable rates denitrification within the process. Variable denitrification causes variable alkalinity and hence pH. Alkalinity is adjusted via manual control of the MHL dose rate causing variable pH performance.	

No other parameters had exceedances in the reporting period.

27.4 Reuse Annual Reporting

No Recycled Water Scheme associated with this STP.

27.5 Ambient monitoring program

Table 27-F: Program details

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

27.6 Groundwater monitoring

No groundwater monitoring network for this site.

27.7 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. Update to the actions completed will be provided in the next revision due September 2024.

A Multi Criteria Assessment was undertaken by TasWater in 2022 to prioritise I&I investigation and works state-wide. This catchment was ranked 11 out of 79 in priority.

27.8 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 is fully compliant with the 2022-23 SSMP.

Biosolids are removed regularly from site, no stockpiling occurs.

Table 27-G: Biosolids sludge classification summary

Month	Number of Samples	Maximum (mg/kg)	Mean (mg/kg)	Minimum (mg/kg)	BACC (mg/kg)	Contaminant Classification
Arsenic	12	4.1	3.7	3.1	4.3	A
Cadmium	12	1.3	1.1	0.8	1.4	B
Chromium	12	45.9	36.8	26.5	50.2	B
Copper	12	420.0	367.6	309	431.5	B
Lead	12	41.0	34.4	30.6	40.9	A
Mercury	12	1.5	0.9	0.26	1.6	B
Nickel	12	57.0	41.9	31.4	56.2	A
Zinc	12	1190.0	1067.9	928	1230.6	B

Table 27-H: Volume and disposal destination

Quantity (DST)	Average solids content	Stabilisation method	Stabilisation Grade	Contamination Grade	Biosolids Classification	End use destination
78.48	14.8%	Anaerobic digestion	B	B	2	Evandale Farm
55.01	14.8%	Anaerobic digestion	B	B	2	Dulverton compost

Notes: DST = Dry solid tonne.

27.9 Non-compliance with other permit requirements

Table 27-I: EPN non-compliances

EPN Condition	Description of non-conformance	Future Actions to be taken
EM2 Effluent reuse feasibility study	Effluent reuse feasibility study not yet submitted to EPA.	Dependant on outcome of LSIP strategy.
EM3 Discharge Management Plan	Discharge Management Plan overdue	Submission timeframe TBC. Plan in development for DMP submission dates following on from agreed format between TasWater and EPA.
OP2 Operational Procedures Manual	No contemporary Operational Procedures Manual	New SharePoint based solution for OPMMs currently being developed. First version to be implemented in FY24.

27.10 Complaints and incident reporting

Table 27-J: Complaints Reporting

Date	Category	Details	Mitigation Actions
10/05/2023	Odour	Communication received from complainant regarding offensive odour emanating beyond the STP boundary.	Service Delivery investigated and found no specific process upsets attributable to the odour complaint. Unfavourable wind conditions were the likely explanation at the time.

27.11 Any other relevant information

Table 27-L: Projects or significant operational events that occurred in FY 2022-23:

Project or significant operational event	Progress
Launceston Sewerage Improvement Program (LSIP)	Hoblers Bridge is currently being investigated for rationalisation to Ti-Tree Bend within LSIP.
Chlorine System Safety Upgrade	Completed
Dewatering Conveyor Replacement	Completed

For further information on Hobblers Bridge STP please contact TasWater on 13 6992

www.taswater.com.au.