

## 5. Boat Harbour STP

### 5.1. Activity and report details

Activity name	Boat Harbour STP		
Activity address	Port Rd, Boat Harbour		
Permit number	43/2002	Date of issue	2/10/2002
EPN	11608/1	Date of issue	08/01/2024
Treatment level	Secondary Treatment		
Authorised dry weather flows	170kL/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 5-1: Boat Harbour Sewage Treatment Plant**



## 5.2. Monitoring and compliance summary

### 5.2.1. Flow data

**Table 5-A: Flow monitoring summary**

	Influent	Effluent	Reuse
<b>Location name</b>	Inlet	Bass Strait	No reuse scheme
<b>Coordinates</b>	E 383599 N 5468374	E 383554 N 5468759	NA
<b>Method of measurement</b>	Inline meter	Estimate based on influent	NA
<b>Date of last calibration/validation (if applicable).</b>	07/07/2025	NA	NA

**Table 5-B: Annual flow and rainfall data**

Month	Average daily influent volume (kL/day)	Rainfall (mm/month) BOM station ID 91364	Discharge to waters total effluent volume (ML)	Discharge to reuse total effluent volume (ML)
July 2024	44	152.4	1.37	--
August 2024	66	203.0	2.05	--
September 2024	116	169.0	3.48	--
October 2024	81	75.4	2.53	--
November 2024	46	69.0	1.38	--
December 2024	49	78.0	1.51	--
January 2025	35	22.1	1.08	--
February 2025	27	10.2	0.76	--
March 2025	27	24.9	0.84	--
April 2025	22	41.2	0.65	--
May 2025	19	55.0	0.58	--
June 2025	20	100.4	0.60	--
Annual 2024-25	46	1000.6	16.82	0.00
% of total discharge	--	--	100.0%	0.0%

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

## 5.3 Bypass events

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

## 5.4 Discharge compliance with permit limits

**Table 5-C: Compliance summary**

	Ammonia as N	BOD5	Chlorine	Nitrogen	Oil and Grease	pH	Phosphorus	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	10	--	--	--	--	8.5	--	750	--
90th Percentile	5	20	--	15	--	--	8	500	30
50th Percentile	3	15	--	10	--	--	5	200	20
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	11.1	42.0	0.0	33.6	1.7	7.2	19.7	24196	16.9
90th percentile	8.5	32.6	0.0	28.4	1.5	7.0	13.9	24196	12.1
50th percentile	0.4	8.5	0.0	16.5	1.0	6.7	7.4	689	6.3
Minimum	0.1	5.0	0.0	9.1	1.0	5.8	2.0	10	4.0
EPN Limit Compliance									
% compliance with Maximum	92%	--	--	--	--	100%	--	50%	--
% compliance with 90th percentile	83%	83%	--	42%	--	--	50%	50%	100%
% compliance with 50th percentile	75%	58%	--	8%	--	--	33%	50%	100%
% compliance with pH range	--	--	--	--	--	67%	--	--	--

**Table 5-D: Mass loads to the environment**

Mass Loads	EPN limit	Frequency	2024-25 result
Nitrogen (kg)	558	Annual	273.8
Phosphorous (kg)	267	Annual	100.7
Method	Time weighted/Grab sample method		

**Table 5-E: Performance analysis (discharge to environment)**

Effluent compliance parameter	Date(s) of non-compliance	Reasons for non-compliance	Actions to improve performance
E. coli	22/08/2024 18/03/2025 10/04/2025 14/05/2025 24/06/2025	The underloading of biological process units and limited aeration control likely explain sporadic elevations in E. coli.	TasWater is exploring options for performance improvement, including potential changes to the plant's configuration to enhance treatment performance.
Ammonia	09/01/2025	Limited aeration control and lower pH in the system likely inhibited nitrifying bacteria from carrying out sufficient Ammonia conversion in this instance.	
pH	25/09/2024 21/11/2024 14/05/2025 24/06/2025	The plant has limited aeration control which results in depletion of alkalinity and therefore pH.	

No other parameters had exceedances in the reporting period.

## 5.5 Reuse annual reporting

No Recycled Water Scheme associated with this STP.

## 5.6 Ambient monitoring program

**Table 5-F: Program details**

<b>Program</b>	Boat Harbour STP Ambient Monitoring Plan in accordance with EPN 11608/1
<b>Status</b>	Triennial ambient water quality and biological monitoring in accordance with EPN 11608/1 and variation EN-EM-PE-WY-083206-005   D25-59364 within the Bass Strait receiving environment.
<b>Update</b>	No ambient monitoring undertaken during the reporting period.
<b>Comments</b>	No ambient monitoring undertaken during the reporting period. The next round of monitoring is scheduled to be completed in FY 2025/26.

## 5.7 Groundwater monitoring

There are no groundwater monitoring programs in place for Boat Harbour STP.

## 5.8 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 78 out of 108 in priority.

## 5.9 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 fully compliant with the 2024-25 SSMP.

There are no sludge/biosolids dewatering facilities at this site, with sludge periodically transferred via liquid sludge transport to Wynyard STP as required. No sludge was removed from Boat Harbour STP during FY2024-25.

No stockpiling occurs at this site.

## 5.10 Non-compliance with other permit requirements

**Table 5-G: EPN non-compliances**

EPN condition	Description of non-conformance	Future actions to be taken
EF3 Effluent quality limits for discharge to Bass Strait	Discharge compliance with permit limits	See section 5.4 Discharge compliance with permit limits

## 5.11 Complaints and incident reporting

There were no complaints during the reporting period.

**Table 5-H: Incident reporting**

Date	Category	Details	Mitigation actions
22/11/2024	Power Outage	Power outage at the Boat Harbour SPS (inlet) due to a damaged underground electrical cable caused by digging.	TasWater deployed VAC trucks to prevent overflow from the SPS wet well and installed a generator to ensure continued inflow into the STP. Rectified.
17/02/2025	Disinfection	One UV globe outage at Boat Harbour STP. As several globes were still functioning properly, disinfection was ongoing with minimal impact on effluent quality.	Replacement globe sourced.

## 5.12 Any other relevant information

**Table 5-I: Projects or significant operational events that occurred in FY 2024-2025**

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

For further information on Boat Harbour STP please contact TasWater on 13 6992

[www.taswater.com.au](http://www.taswater.com.au)