

## 51. Riverside STP

### 51.1 Activity and report details

Activity name	Riverside STP		
Activity address	Benson Court, Riverside, Launceston		
Permit number	Licence to Operate – 3595	Date of issue	31/07/1989
EPN	8106/1	Date of issue	12/06/2013
Treatment level	Secondary Treatment		
Authorised dry weather flows	2800 kL/day		
Key influent source	Residential/Industrial		
Contact person	Kate Westgate		
Report author	Luisa Romero (Environmental Scientists)		
Contact details	Environment@taswater.com.au		
Date of submission	30 September 2025		

**Figure 51-1: Riverside Sewage Treatment Plant**



## 51.2 Monitoring and compliance summary

### 51.2.1 Flow data

**Table 51-A: Flow monitoring summary**

	Influent	Effluent	Reuse
<b>Location name</b>	Plant Inlet	Tamar River	Riverside Golf Club
<b>Coordinates</b>	E 509511 N 5414834	E 509557 N 5414876	E 509170 N 5415140
<b>Method of measurement</b>	In line meter	Level Sensor	In line meter
<b>Date of last calibration/validation (if applicable).</b>	07/03/2025	22/01/2025	22/01/2025

**Table 51-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 2024	2,402	105	74.46	--
August 2024	2,349	103.2	72.81	--
September 2024	2,490	87.9	74.71	--
October 2024	1,489	36.8	46.16	--
November 2024	1,501	82.4	45.04	--
December 2024	1,656	57.2	51.34	--
January 2025	1,257	25	38.98	--
February 2025	1,289	14.2	36.08	--
March 2025	1,221	19.4	37.87	--
April 2025	1,243	25.4	37.29	--
May 2025	1,336	48.5	41.41	--
June 2025	1,592	71	47.75	--
<b>Annual 2024-25</b>	<b>1,654</b>	<b>676</b>	<b>603.89</b>	<b>0.00</b>
<b>% of Total Discharge</b>	<b>--</b>	<b>--</b>	<b>100.0%</b>	<b>0.0%</b>

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

### 51.3 Bypass events

**Table 51-C: Bypass events summary**

<b>Bypass ID:</b>	RIVST01-OP				
<b>Bypass description:</b>	Primary effluent overflow to outfall				
<b>Treatment bypassed:</b>	Secondary Treatment, Disinfection (Chlorine)				
<b>Treatment level of impacted effluent:</b>	Screened, Primary Treatment				
<b>Flows exceeding:</b>	100L/s (Approximate)				
<b>Discharge location:</b>	Tamar River: 509655E, 5414775N (GDA94)				
<b>Start date / time</b>	<b>End date / time</b>	<b>Duration</b>	<b>Volume estimate</b>	<b>Cause</b>	<b>Response actions</b>
27/07/2024	27/07/2024	3.1 h	2 kL	High Flow (Wet Weather)	To help reduce bypass events state-wide, during FY2024-25 TasWater has spent \$1.2 million on the identification, reification and monitoring of inflow and infiltration (I&I) within our systems. During FY2025 -26 we will be spending a further \$0.8 million on I&I works.
6/08/2024	6/08/2024	0.6 h	2 kL	High Flow (Wet Weather)	
7/08/2024	8/08/2024	27.6 h	2 kL	High Flow (Wet Weather)	
30/08/2024	30/08/2024	6.7 h	3 kL	High Flow (Wet Weather)	
31/08/2024	2/09/2024	36.0 h	14 kL	High Flow (Wet Weather)	
6/09/2024	6/09/2024	6.2 h	5 kL	High Flow (Wet Weather)	
27/11/2024	27/11/2024	3.8 h	11 kL	High Flow (Wet Weather)	

## 51.4 Discharge compliance with permit limits

**Table 51-D: Compliance Summary**

	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	1.5	55	10	8.5	12	1000	60
90th Percentile	--	--	--	--	--	--	--	--	--
50th Percentile	--	--	--	--	--	--	--	--	--
Minimum	--	--	--	--	--	6.5	--	--	--
<b>Samples analysed</b>									
Number required	12	12	12	12	12	12	12	12	12
Number analysed	12	12	13	12	12	12	12	15	12
<b>Statistical summary</b>									
Maximum	40.6	62.0	1.7	57.0	9.0	7.6	7.9	24196	30.0
90th percentile	38.9	47.6	1.4	49.7	8.6	7.6	7.8	18997.2	26.0
50th percentile	32.3	36.5	1.2	46.0	7.8	7.4	6.9	6131	22.5
Minimum	13.3	29.0	1.0	20.8	5.2	6.9	2.9	548	16.7
<b>EPN Limit Compliance</b>									
% compliance with Maximum	--	67%	92%	92%	100%	100%	100%	7%	100%
% compliance with 90th percentile	--	--	--	--	--	--	--	--	--
% compliance with 50th percentile	--	--	--	--	--	--	--	--	--
% compliance with pH range	--	--	--	--	--	100%	--	--	--

**Table 51-E: Mass loads to the environment**

Mass Loads	EPN Limit	Frequency	2024-25 result
Nitrogen (kg)	--	Annual	25084.6
Phosphorous (kg)	--	Annual	3684.8
Method	Flow weighted/Composite method		

**Table 51-F: Performance analysis (discharge to environment)**

Effluent compliance parameter	Date(s) of non-compliance	Reasons for non-compliance	Actions to improve performance
E. coli	10/07/2024, 14/08/2024 11/09/2024, 9/10/2024 13/11/2024, 11/12/2024 6/02/2025, 10/02/2025 12/02/2025, 12/03/2025 9/04/2025, 14/05/2025 11/06/2025	The chlorine contact tank is undersized to achieve necessary contact times at high flows. Limitations in flow paced chlorine dose control also results in poor performance when dose rates cannot be automatically adjusted to demand. Exacerbated by rainfall events in July, September, March and June.	Regular monitoring of chlorine residual to ensure optimal chlorine dose rate. Investigate options for an additional chlorine contact tank analyser to improve automatic dose control. Improvement actions to be explored as part of LSIP.
BOD	14/08/2024 12/02/2025 12/03/2025 9/04/2025	Trickling filter effluent contains high particulate solids (biofilm accumulation on the media surface) which is difficult to control and capture in the humus tank. These solids contribute to elevated BOD. Exacerbated by rainfall event in August.	No actions taken during reporting period
Chlorine total	11/09/2024	Lack of process control for automated Cl dosing	
Nitrogen	14/05/2025	STP is not designed to remove TN	No actions taken during reporting period

No other parameters had exceedances in the reporting period.

### 51.5 Reuse annual reporting

The Riverside STP supplied treated effluent for irrigation purposes to the Riverside recycled water scheme (RWS) at the Riverside Golf Club. The scheme is currently not in operation, and no recycled water has been supplied to the Golf Club for consecutive years.

### 51.6 Ambient monitoring program

**Table 51-G: Program details**

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

### 51.7 Groundwater monitoring

No groundwater monitoring program associated with the STP.

### 51.8 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 101 out of 108 in priority.

### 51.9 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.

Due to an inoperative anaerobic digester and dewatering equipment, no biosolids were produced from this STP in FY2025–26. Liquid sludge was instead transferred to Ti Tree Bend STP where it was received directly into the anaerobic digester. A total of 4845kL of sludge was removed during the reporting period.

No stockpiling occurs at this site.

**Table 51-H: Liquid sludge transfers from Riverside STP**

Receiving STP	Volume (kL)
Ti Tree Bend STP	4845
<b>TOTAL</b>	<b>4845</b>

## 51.10 Non-compliance with other permit requirements

**Table 51-I: EPN non-compliances**

EPN condition	Description of non-conformance	Future actions to be taken
EF2 Effluent quality limits for discharge to the Tamar River	Discharge compliance with permit limits	See section 51.3 Discharge compliance with permit limits and Performance Analysis
EM2 Effluent Reuse feasibility study	A feasibility study for reuse of effluent from the activity must be submitted to the Director	Any future works will be in-line with the Meander Tamar Sewerage Regional Master Plan. Refer to section 51.5 regarding recycled water scheme.
EM3 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.

## 51.11 Complaints and incident reporting

**Table 51-J: Complaints reporting**

Date	Category	Details	Mitigation actions
20/02/2025	Odour	Strong odour from STP	The odour was primarily due to emergency work carried out on a primary sedimentation tank, which was temporarily emptied to clear a pipe blockage. The plant was returned to normal operation.

**Table 51-K: Incident reporting**

Date	Category	Details	Mitigation actions
15/08/2024	Mechanical	The two digesters at Riverside STP are currently not functioning properly due to a failure in the heating system	<ul style="list-style-type: none"> <li>The digesters at Riverside have been shut down.</li> <li>TasWater is currently transferring raw sludge to the onsite holding tank and then transporting it to Ti Tree Bend for digestion. This process will continue until further notice.</li> <li>In May 2025 the digesters were cleaned out and a condition assessment was carried out to determine the scope of the required works.</li> <li>The digester recommissioning should occur in 2026, pending what scope is needed from the condition assessment.</li> </ul>

## 51.12 Any other relevant information

**Table 51-L: Projects or significant operational events that occurred in FY 2024-25**

Project or significant operational event	Progress
Meander Tamar Sewerage Regional Master Plan	The Meander Tamar Sewerage Regional Master Plan has been completed and includes the short term and long-term considerations for the Riverside STP with the ultimate decommissioning of the STP and transfer of sewage to the Ti Tree Bend STP.
Digestors cleaned out and condition assessment	Completed – May 2025

For further information on the Riverside STP please contact TasWater on 13 6992 or [www.taswater.com.au](http://www.taswater.com.au).