

## 66. Stieglitz STP

### 66.1 Activity and report details

Activity name	Stieglitz STP		
Activity address	Stieglitz Track, Stieglitz		
Permit number	Licence to Operate - 3931	Date of issue	16/04/1991
EPN	237/2	Date of issue	26/11/2014
Treatment level	Secondary Treatment		
Authorised dry weather flows	110 kL/day		
Key influent source	Residential/Tankered		
Contact person	Kate Westgate		
Report author	Luisa Romero (Environmental Scientist)		
Contact details	Environment@taswater.com.au		
Date of submission	30 September 2025		

**Figure 66-1: Steiglitz Sewage Treatment Plant**



## 66.2 Monitoring and compliance summary

### 66.2.1 Flow data

**Table 66-A: Flow monitoring summary**

	Influent	Effluent	Reuse
<b>Location name</b>	Inlet	Emergency	Effluent Reuse Scheme – Stieglitz Reuse Scheme
<b>Coordinates</b>	E 609364 N 5423968	E 609223 N 5423841	E 609208 N 5423836
<b>Method of measurement</b>	In line meter	Estimate based on influent	In line meter
<b>Date of last calibration/validation (if applicable).</b>	20/03/2025	NA – meter to be installed	26/11/2024

**Table 66-B: Annual flow and rainfall data**

Month	Average daily influent volume (kL/day)	Rainfall (mm/month) BOM Station ID 92120	Discharge to waters total effluent volume (ML)	Discharge to reuse total effluent volume (ML)
July 2024	156	67.6	0.00	4.82
August 2024	148	63.2	0.00	4.60
September 2024	147	55.8	0.00	4.42
October 2024	147	39.2	0.00	4.54
November 2024	150	81.2	0.00	4.50
December 2024	243	111.8	0.00	7.52
January 2025	207	34	0.00	6.43
February 2025	102	30.2	0.00	2.87
March 2025	150	31.4	0.00	4.66
April 2025	162	42.4	0.00	4.85
May 2025	98	22	0.00	3.05
June 2025	165	86.8	0.00	4.95
Annual 2024-25	157	665.6	0.00	57.21
% of total discharge	--	--	0.0%	100.0%

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

### 66.3 Bypass events

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

### 66.4 Discharge compliance with permit limits

This STP did not discharge to the environment during the period.

## 66.5 Reuse annual reporting

The Steiglitz STP supplies treated effluent for irrigation of native bushland at the Steiglitz recycled water scheme (RWS).

**Table 66-C: Reuse compliance summary**

	BOD5	pH	E coli
Permit/EPN limit	mg/L	Units	MPN/100ml
Maximum	50	9.0	10000
90th Percentile	--	--	--
50th Percentile	--	--	1000
Minimum	--	5.5	--
<b>Samples analysed</b>			
Number required	12	12	12
Number analysed	12	12	12
<b>Statistical summary</b>			
Maximum	74.0	9.1	6678
90th percentile	42.2	8.8	1867
50th percentile	23.5	8.0	620
Minimum	5.0	7.3	10
<b>EPN Limit Compliance</b>			
% compliance with Maximum	92%	--	100%
% compliance with 90th percentile	--	--	--
% compliance with 50th percentile	--	--	67%
% compliance with pH range	--	92%	--

**Table 66-D: Performance analysis (discharge to reuse)**

Effluent compliance parameter	Date(s) of non-compliance	Reasons for non-compliance	Actions to improve performance
pH	15/04/2025	Algae is believed to be the primary reason for elevated BOD due to CO2 uptake during photosynthesis. Algae is a source of oxygen and is fundamental to lagoon treatment.	No specific action taken
BOD	20/05/2025		

Annual soil sampling was completed at five sites, ID's Middle-west, North-east, North-west, South-east and South-west, at the RWS in May 2025. The field component of the annual compliance audit was completed in conjunction with the soil sampling with a follow-up phone audit in August. A summary of the findings of the programs is provided in the below table.

**Table 66-D: Annual recycled water scheme compliance audit and soil monitoring summary**

Program	Compliance audit	Soil monitoring
<b>Outcomes</b>	Un-clear. (Buffer zones – no runoff)	Sodicity levels (generally) remain elevated across the site and a significant increase in one nutrient (phosphorous) was recorded.  A review of to reduce intensity or relocation of irrigation area is recommended.
<b>Comments</b>	Surface ponding in low spots suggests excessive recycled water irrigation when soils are already saturated which leads to runoff from site.	

RWS Groundwater Status: Green

Stieglitz RWS groundwater monitoring network consists of two bores; bore ID STRGW1 located east of irrigation area and bore ID STRGW2 located west of the irrigation area.

Bi-annual sampling at the extended analytical suite was completed at bore ID STRGW1 in November 2024 and April 2025 as scheduled. Bore ID STRGW2 was sampled during the annual sampling round (April 2025) as it could not be located during the 6-monthly sampling in November 2024.

The 2024-25 groundwater monitoring event recorded all key analytes below adopted guideline criterion and no evidence of recycled water impact on groundwater.

Sampling is scheduled to reduce to the annual frequency at the standard analytical suite is scheduled across the monitoring network in 2025-26 groundwater monitoring program.

## 66.6 Ambient monitoring program

**Table 66-E: Program details**

<b>Program</b>	NA – No requirement for ambient monitoring.
<b>Status</b>	NA
<b>Update</b>	NA
<b>Comments</b>	NA

## 66.7 Groundwater monitoring

Site status: Red

Stieglitz STP groundwater monitoring network consists of six groundwater monitoring bores, ID numbers STGW1, STGW3, STGW8-9 and STGW11-12 surrounding the north-western, northern and eastern perimeter of the STP infrastructure.

Bi-annual sampling at the extended analytical rates was completed at all bores (except bore ID STGW1) in November 2024 and April 2025. One round of sampling (6-monthly) was completed in November 2024 at bore ID STGW1.

The 2024–25 groundwater monitoring event recorded continued trends of elevated concentrations of several analytes' two orders above the adopted guideline criterion at bore ID STGW1. In addition, the assessment of water type across the monitoring network showed that bore ID STGW1 water type was aligned more closely with STP lagoon water (2023 STP samples) compared to the water type of other groundwater monitoring locations suggesting

Bi-annual sampling at the extended analytical suite is scheduled to continue across the network, in addition the surface waters of the STP lagoons during the 2024–25 groundwater monitoring program.

### 66.8 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 83 out of 108 in priority.

### 66.9 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 66-F: Desludging status and comments**

Desludging status	Commentary
Low Priority	Lagoons 1 and 2 won't require desludging in the foreseeable future.

### 66.10 Non-compliance with other permit requirements

**Table 66-H: EPN non-compliances**

EPN condition	Description of non-conformance	Future actions to be taken
Q1 Regulatory Limits	ADF exceeds ADWF EPN limit (110kl/d).	Stieglitz STP is currently classified as a low-risk ERA under the East Coast Sewerage Regional Master Plan. Long term options include rationalising flows to St Helens STP or diverting western catchment areas to St Helens to reduce flows to the STP depending on potential catchment development
G8 Revised Wastewater Reuse EMP	No evidence of Wastewater Reuse EMP review submission to EPA	Revision of Reuse EMP is scheduled during FY 2026–27

### 66.11 Complaints and incident reporting

No complaints or incidents reported during the FY2024-25 reporting period.

### 66.12 Any other relevant information

**Table 66-I: Projects or significant operational events that occurred in FY 2024-25**

Project or significant operational event	Progress
East Coast Sewerage Regional Master Plan	The East Coast Sewerage Regional Master Plan has been completed and includes the short term and long-term considerations for the Stieglitz STP.

For further information on the St Stieglitz STP please contact TasWater on 13 6992

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