

## 55. Scamander STP

### 55.1 Activity and report details

Activity name	Scamander STP		
Activity address	Coach Road, Scamander		
Permit number	Licence to Operate - 5774	Date of issue	30 /06/1992
EPN	9423/1	Date of issue	19/07/2016
Treatment level	Secondary Treatment		
Authorised dry weather flows	240 kL/day		
Key influent source	Residential		
Contact person	Kate Westgate		
Report author	Luisa Romero (Environmental Scientist)		
Contact details	Environment@taswater.com.au		
Date of submission	30 September 2025		

**Figure 55 -1: Scamander Sewage Treatment Plant**



## 55.2 Monitoring and compliance summary

### 55.2.1 Flow data

**Table 55-A: Flow monitoring summary**

	Influent	Effluent	Reuse
<b>Location name</b>	Inlet	Wrinklers Lagoon (emergency)	Scamander Golf Course
<b>Coordinates</b>	E 604659 N 5411189	E 605100 N 5409600	E 604836 N 5411096
<b>Method of measurement</b>	In line meter	Influent less reuse	In line meter
<b>Date of last calibration/validation (if applicable).</b>	20/03/2025	NA – to be installed	25/11/2024

**Table 55-B: Annual flow and rainfall data**

Month	Average daily influent volume (kL/day)	Rainfall (mm/month) BOM Station ID 92014	Discharge to waters total effluent volume (ML)	Discharge to reuse total effluent volume (ML)
July 2023	155	77.2	0.00	4.81
August 2023	113	64.4	0.00	3.51
September 2023	145	51.4	0.00	4.34
October 2023	144	31	0.00	4.45
November 2023	147	69.6	0.00	4.42
December 2023	222	221.2	0.00	6.89
January 2024	203	129.4	0.00	6.29
February 2024	153	60.6	0.00	4.28
March 2024	137	43.7	0.00	4.26
April 2024	137	27.6	0.00	4.10
May 2024	111	33.8	0.00	3.43
June 2024	133	97	0.00	3.99
<b>Annual 2023-24</b>	150	906.9	0.00	54.79
<b>% of total discharge</b>	--	--	0.0%	100.0%

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

### 55.3 Bypass events

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

### 55.4 Discharge compliance with permit limits

As this site did not discharge to the environment, no compliance samples were taken.

## 55.5 Reuse annual reporting

The Scamander STP supplies treated effluent for irrigation proposes to the Scamander recycled water scheme (RWS) located at the Scamander Golf Course and includes an emergency irrigation area.

**Table 55-C: Reuse compliance summary**

Parameter	BOD5	pH	E coli
Permit/EPN limit	mg/L	Units	MPN/100ml
Maximum	50	9.5	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	62.0	8.1	601
90th percentile	17.2	8.1	485
50th percentile	5.5	7.6	81
Minimum	5.0	7.3	20
<b>Summary of results</b>			
% compliance with Maximum	92%	--	100%
% compliance with 90th percentile	--	--	--
% compliance with 50th percentile	--	--	100%
% compliance with pH range	--	100%	--

**Table 55-D: Performance analysis (Discharge to reuse)**

Reuse compliance parameter	Date(s) of non-compliance	Reasons for non-compliance	Actions to improve performance
BOD	25/03/2025	Algae is the primary reason for elevated BOD. Algae is a source of oxygen and is fundamental to lagoon treatment. The non-compliant result was during a warmer month when algal blooms typically occur.	No specific actions

No other parameters have had exceedances in the FY period.

Annual soil sampling was completed at two sites (F1 and F2) at the Scamander Golf course, and two sites (EM1 and EM2) at the emergency irrigation area at the RWS in June 2025. The field component of the annual compliance audit was completed in

conjunction with the soil sampling with a follow-up phone audit in July 2025. A summary of the findings of the programs is provided in Table 55-E.

**Table 55-E: Annual recycled water scheme compliance audit and soil monitoring summary**

Program	Compliance audit	Soil monitoring
Compliance status	Non-compliance: Inadequate restriction of public access to irrigation areas (Golf Course and emergency irrigation area)	Soil salinity increased at site F1 to its highest recorded level. All other sites remain within recommended ranges and historic ranges observed at the sites.
Comments	Emergency irrigation area is not accurately represented in the Irrigation and Environmental Management Plan and is not fenced, is signed but additional signage is recommended.  No barrier on along Coach Road at golf course, (IEMP suggests a roped fence and signage installed at likely entry points to the golf course) and was considered a very low risk in compliance audit	Soil sodicity remains elevated at all sites and within the previously observed ranges.  Nutrient levels remain within recommended ranges and consistent with historical levels.

Groundwater RWS site status: Amber

The Scamander RWS groundwater monitoring network consists of 5 bores, ID numbers SCRGW1-3, and SCRGW5 and SCRGW6.

Bi-annual sampling at the standard analytical suite was completed at bore ID SCRGW6 in November 2024 and April 2025 as scheduled. No samples were collected at bore ID's SCRGW1-3 and SCRGW5 due to bores being dry at both sampling events.

The 2024-25 groundwater monitoring event (GME) recorded one key analyte remained above guideline criteria. The GME report recommended reviewing the replacement of dry bores within the network.

Sampling is scheduled to continue bi-annually at the standard analytical suite across the network during the 2025-26 groundwater monitoring program.

## 55.6 Ambient monitoring program

**Table 55-F: Program details**

Program	No requirement for ambient monitoring in the reporting period
Status	No discharge occurred during reporting period.
Update	No discharge occurred during reporting period.
Comments	NA

## 55.7 Groundwater monitoring

Site status: Amber

Scamander STP groundwater monitoring network consists of one monitoring bore, ID number SCGW1, located to the east of the STP.

Bi-annual sampling was completed at the standard analytical suite November 2024 and May 2025 as scheduled.

The 2024–25 groundwater monitoring event recorded groundwater quality was consistent with previous years showing elevated concentrations of several key analytes above adopted guideline criterion suggesting potential impact from STP. Addressing the spatial gap in the groundwater monitoring network is required to add confidence to the dataset and trend analysis.

Bi-annual sampling at the standard analytical suite is scheduled to continue in the 2025–26 groundwater monitoring program.

### 55.8 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 103 out of 108 in priority.

### 55.9 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 as assessed as compliant with the 2024–25 SSMP.

Sludge at this STP is captured within the three primary treatment lagoons, which are sequentially taken offline in order to allow accumulated sludge to dry out and then be disposed of to suitable farmland (provided testing results can demonstrate Class 2 biosolids requirements are met). During this reporting period, dried sludge from primary lagoon 1 was removed and applied to nearby suitable farmland. Primary lagoon 3 will now be taken offline to allow accumulated sludge from this lagoon to dry out and be removed at a later date.

**Table 55-G: Biosolids sludge classification summaries**

Parameter	Number of samples	Maximum (mg/kg)	Mean (mg/kg)	Minimum (mg/kg)	BACC (mg/kg)	Contaminant classification
Arsenic	3	2.7	1.7	0.7	2.7	A
Cadmium	3	0.4	0.3	0.2	0.2	A
Chromium	3	18.1	10.6	4.1	17.6	A
Copper	3	161	122.7	61.2	176.5	B
Lead	3	10.2	6.9	3.5	10.3	A
Mercury	3	0.17	0.1	0.05	0.1	A
Nickel	3	9.3	6.7	4	9.4	A
Zinc	3	335	250.3	134	354.5	B

**Table 55-H: Volume and disposal destination**

Quantity (DST)	Average solids content (%)	Stabilisation method	Stabilisation grade	Contamination grade	Biosolids classification	End use destination
726.3	54.0	Anaerobic digestion	B	B	2	Falmouth Farm

Notes: DST = Dry solid tonne. U/C = Unclassified

**Table 55-I: Desludging status and comments**

Desludging status	Comments
Medium Priority	Dried sludge from lagoon 1 was disposed of to farmland in December 2024. Lagoon 1 has since been returned back online. Lagoon 3 will be taken offline later this year to allow accumulated sludge to dry out and later be removed – likely within the next 5 years.

## 55.10 Non-compliance with other permit requirements

**Table 55-J: EPN non-compliances**

EPN condition	Description of non-conformance	Future actions to be taken
G8 Wastewater Reuse EMP	No evidence of Wastewater Reuse EMP review submission to EPA since 2014.	Reuse EMP scheduled for review FY2024-25.
M4 Signage of monitoring points	An unmarked groundwater monitoring bore was observed, downslope of 'SCGW1' (marked). From available reports, this bore may be monitored as 'SCGW2'.	TasWater acknowledges non-compliance with this condition. The unmarked groundwater bore will be properly labelled during FY25-26.

## 55.11 Complaints and incident reporting

No Incidents and complaints were reported during the FY2024-25.

## 55.12 Any other relevant information

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