

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	1 /06/1992
EPN	9243/1	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	Jayden Taylor		
Contact details	Environment@taswater.com.au		
Date of submission	30 September 2023		

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
Location Name	Inlet	Wrinklers Lagoon (emergency)	Scamander Golf Course
Coordinates	E 604659 N 5411189	E 605100 N 5409600	E 604836 N 5411096
Method of Measurement	In line meter	Influent less reuse	In line meter
Date of last Calibration/Validation (if applicable).	13/07/2022	NA	9/05/2022

Table 55-B: Annual flow and rainfall data

Month	Average Daily Influent Volume (kL/day)	Rainfall (mm/month) BOM Station ID 92113	Discharge to Waters Total Effluent Volume (ML)	Discharge to Reuse Total Effluent Volume (ML)
July 2022	156	56.8	0.00	4.83
August 2022	156	84.2	0.00	13.18
September 2022	185	—*	0.00	0.25
October 2022	391	246.4	0.00	17.01
November 2022	233	107.2	0.00	4.67
December 2022	308	79.8	0.00	10.84
January 2023	189	27.0	0.00	4.41
February 2023	164	86.2	0.00	2.74
March 2023	211	111.0	0.00	9.20
April 2023	189	95.6	0.00	6.81
May 2023	129	12.4	0.00	3.82
June 2023	199	124.2	0.00	9.05
Annual 2022-23	210	1030.8	0.00	86.81
% of Total Discharge	--	--	0.0%	100.0%

* No BOM rainfall data available for this month.

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

55.2.2 Bypass events

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

55.3 Discharge compliance with permit limits

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

55.4 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	--
Samples analysed			
Number required	12	12	12
Number analysed	12	12	12
Statistical summary			
Max	34	8.2	4352
90th percentile	29	7.9	668
50th percentile	11	7.5	199
Min	5	7.0	10
Summary of results			
% compliance with Maximum	100%	--	100%
% compliance with 90th percentile	--	--	--
% compliance with 50th percentile	--	--	92%
% compliance with pH range	--	100%	--

No 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 April 2023. The annual compliance audit was completed in conjunction with the soil sampling. A summary of the findings of the programs is provided in Table 55-D.

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

Program	Compliance audit	Soil monitoring
Compliance status	<p>Customer fully compliant.</p> <p>Emergency irrigation area non-compliant: Sprinkler in emergency irrigation area was not operating correctly which resulted in flooding near the sprinklers at time of audit.</p> <p>No fencing around emergency irrigation area.</p>	<p>Soil salinity decreased at sites F1 and R1, returning within recommended range. All sites now classified non-saline.</p> <p>Soil sodicity decreased at site ID F1 but remains elevated at all sites and within the previously observed ranges.</p> <p>Nutrient levels remain low across all sites and consistent with historical levels.</p>
Comments	<p>Emergency irrigation area spill was reported internally at time of audit with repairs completed in April 2023.</p>	<p>Soil sodicity remains main concern across the scheme. The presence of sandy soils reduces the</p>

Emergency irrigation area is not accurately represented in the Irrigation and Environmental Management Plan.	risk of soil degradation from sodic soils due to leaching.
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Groundwater RWS site status: Amber – moderate issues identified

The Scamander RWS groundwater monitoring network consists of 5 bores, ID numbers SCRGW1-3, and SCRGW5 and SCRGW6. Annual sampling was completed at three bores (ID's SCRGW3, 5 and 6) in July 2023. Bore ID's SCRGW1 and 2 were not sampled in 2022-23 reporting period due to timing and resourcing constraints.

Although a decrease in levels was recorded, 2023 sampling of bore ID SRGW6 total phosphorous levels remain above adopted guideline criteria and found an increasing trend in total phosphorous, total nitrogen, ammonia and total dissolved solids. Bore ID SRGW5 also recorded an increase in total phosphorous concentrations now above adopted guideline criterion.

Sampling is scheduled to increase to biannual sampling during the 2023-24 groundwater monitoring program.

55.5 Ambient monitoring program

Table 55-E: 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

55.6 Groundwater monitoring

Site status: Amber – Limited impact of STP

Scamander STP groundwater monitoring network consists of one monitoring bore, ID number SCGW1, located to the east of the STP. Due to timing and resourcing constraints no sampling was completed at this site during the reporting period.

Biannual sampling is scheduled to continue during the 2023-24 groundwater monitoring program.

55.7 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 72 out of 79 in priority.

55.8 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 was fully compliant with the 2022-23 SSMP.

No stockpiling occurred at this site.

Table 55-F Desludging status and comments

Desludging Status	Comments
Low Priority	Desludging scheduled to occur in 2027, as per the current prioritisation planning schedule.

55.9 Non-compliance with other permit requirements

Table 55-G: 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.
OP1 Operational Procedures Manual	No contemporary Operational Procedures Manual	New SharePoint based solution for OPMMs currently being developed. First version to be implemented by FY 2024.

55.10 Complaints and incident reporting

Table 55-H: Complaints Reporting

Date	Category	Details	Mitigation Actions
14/10/2022	Odour	Strong sewer odour reported.	Investigation undertaken.

Table 55-I: Incident Reporting

Date	Category	Details	Mitigation Actions
15/7/2022	Odour	Rising sludge from lagoon 1 emitting noticeable odour.	Lagoon configuration was modified. Previously, lagoon 3 was kept offline and the treatment process ran through lagoon 1 -> 2 -> 4. Changes made mean that lagoon 1 is now currently offline and the process runs through 3 -> 2 -> 4.

55.11 Any other relevant information

For further information on the Scamander STP please contact TasWater on 13 6992

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