

## A. Statement of Compliance - Licence Details

**ALL Licence holders must check that the Licence details in Section A are correct.**

If there are changes to any of these details, **you must advise Environment Protection Authority (EPA) and apply as soon as possible for a variation to your Licence or for a Licence transfer.**

Licence variation and transfer application forms are available on the EPA website at: <http://www.epa.nsw.gov.au/licensing-and-regulation/licensing> or from regional offices of the EPA, or by contacting by telephone 02 9995 5700.

If you are applying to vary or transfer your Licence, you must still complete and submit this Annual Return.

### A1. Licence holder

**Licence number** : 784  
**Licence holder** : BYRON SHIRE COUNCIL  
**Trading name (if applicable)** :  
**ABN** : 14 472 131 473  
**ACN** :  
**Reporting period** : From: 27-4-2023 To: 26-4-2024

### A2. Premises to which Licence Applies (if applicable)

**Common name (if any)** : OCEAN SHORES SEWAGE TREATMENT WORKS  
**Premises** : 21 SMOKEY VALLEY WAY OCEAN SHORES 2483 NSW

### A3. Activities to which Licence Applies

Sewage treatment

### A4. Other Activities (if applicable)

### A5. Fee-Based Activity Classifications

**Note** that the fee based activity classification is used to calculate the administrative fee.

Fee-based activity	Activity scale	Unit of measure
Sewage treatment processing by small plants	> 219.00 - 1,000.00	ML annual maximum volume of discharge

### A6. Assessable Pollutants (if applicable)

**Note** that the identification of assessable pollutants is used to calculate the **load-based fee**.  
The following assessable pollutants are identified for the fee-based activity classifications in the licence:

### Sewage treatment processing by small plants

- BOD (Estuarine Water)
- Nitrogen (total) (Estuarine Water)
- Oil and Grease (Estuarine Water)
- Phosphorus (total) (Estuarine Water)
- Total suspended solids (Estuarine Water)

## B. Monitoring and Complaints Summary

### B1. Number of Pollution Complaints

Pollution Complaint Category	Complaints
Air	8
Water	9
Noise	0
Waste	0
Other	0
<b>Total complaints recorded by the licensee during the reporting period</b>	<b>17</b>

### B2. Concentration Monitoring Summary

For each concentration monitoring point identified in your licence, details are displayed below. If concentration monitoring is not required by your licence, **no data** will appear below.

If data was provided from an uploaded file, the file name will be displayed below instead of any data.

**Note** that this does not exclude the need to conduct appropriate concentration monitoring of assessable pollutants as required by load-based licensing (if applicable).

#### Monitoring Point 3

**Effluent quality monitoring, The first concrete chamber located at the outlet pipe of the UV disinfection Unit, approximately 160 metres South East of the STP office.**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Biochemical oxygen demand	milligrams per litre	26	26	<1	1.2	3.9
Faecal Coliforms	colony forming units per 100 millilitres	26	26	<1	115	1750



# Annual Return

BYRON SHIRE COUNCIL

Licence 784

Nitrogen (ammonia)	milligrams per litre	26	26	<0.02	1.26	8.99
Nitrogen (total)	milligrams per litre	26	26	0.64	2.34	9.57
Oil and Grease	milligrams per litre	26	26	<2	1.1	3.0
pH	pH	26	26	6.7	7.1	7.3
Phosphorus (total)	milligrams per litre	26	26	0.05	0.11	0.23
Total suspended solids	milligrams per litre	26	26	<1	3.9	15.0

### B3. Volume or Mass Monitoring Summary

For each volume or mass monitoring point identified in your licence, details are displayed below. If volume or mass monitoring is not required by your licence, **no data** will appear below.

If data was provided from an uploaded file, the file name will be displayed below instead of any data.

**Note** that this does not exclude the need to conduct appropriate volume or mass monitoring of assessable pollutants are required by load-based licensing (if applicable).

#### Monitoring Point 2

Total volume monitoring, On the rising mains at entrance to plant

Unit of measure	Frequency	No. of measurements made	Lowest result	Mean result	Highest result
kilolitres per day	Daily	366	1222	1781	10102

## C. Statement of Compliance - Licence Conditions

### C1. Compliance with Licence Conditions

Were all conditions of the licence complied with (including monitoring and reporting requirements)?	<b>No</b>
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### C2. Details of Non-Compliance with Licence

<b>Licence condition number not complied with ▼</b>
Licence clause L3.4 – Concentration Limits – EPA 3 – Faecal Coliforms
<b>Summary of particulars of the non-compliance ▼</b>
There were three (3) exceedances of the 90th Percentile Limit of 200 cfu/100mL at EPA3, which is 88.5% compliance (26 samples).
<b>Further details on particulars of non-compliance, if required ▼</b>



<b>Number of times occurred ▼</b>
3
<b>Date(s) when the non-compliance occurred, if applicable ▼</b>
03/01/2024, 1/01/2024 & 14/02/2024
<b>Cause of non-compliance ▼</b>
Cause: FC counts in exceedance of the 90th percentile limit were recorded on three (3) occasions. All occasions were associated with a large rainfall event resulting in high inflows and therefore reduced effectiveness of the UV system. Only in one instance was there treatment bypass (as described above).
<b>Action taken or that will be taken to mitigate any adverse effects of the non-compliance ▼</b>
Treatment process monitored during rainfall event and in all cases the UV system was cleared and cleaned to improve performance.
<b>Action taken or that will be taken to prevent a recurrence of the non-compliance ▼</b>
More regular cleaning of the UV system has been initialled and ongoing investment in reduction of inflow and infiltration in the catchment.
<b>Uploaded Document Name ▼</b>
<b>Uploaded Document Description ▼</b>

<b>Licence condition number not complied with ▼</b>
Licence clause L3.4 – Concentration Limits – EPA 3 – Faecal Coliforms
<b>Summary of particulars of the non-compliance ▼</b>
Exceedance of 100th Percentile Limit of 600 cfu/100mL - EPA 3, Faecal Coliforms = 1,750 cfu/100mL
<b>Further details on particulars of non-compliance, if required ▼</b>
<b>Number of times occurred ▼</b>
1
<b>Date(s) when the non-compliance occurred, if applicable ▼</b>
17/01/2024
<b>Cause of non-compliance ▼</b>
The north of Byron Shire LGA experienced heavy rainfall between 15 and 18 January 2024: 180.2mm recorded at BOM weather station 58040: Mullumbimby (Fairview Farm); The Ocean Shores STP rain gauge registered 205.5 mm for the same period. This significant rainfall exceeded stormwater system capacity which resulted in inflow and infiltration into the sewerage network beyond the maximum capacity of the STP.
<b>Action taken or that will be taken to mitigate any adverse effects of the non-compliance ▼</b>



On Monday 15 January 2024 (7.40 pm), Council operators were notified (via SCADA) that a process bypass at the Ocean Shores Sewage Treatment Plant (STP) had occurred. Treatment was reinstated once flow rates were within the treatment capacity of the plant on 16 January 2024 (9.00 am). The STP went into bypass later that day from (1.30 pm) until (6.00 am) the following morning 17 January 2024 when it was put back online because the inflows had reduced sufficiently. However, it did go out again for another 5 hours from Wednesday 17 January (8.20 am) until (1.30 pm).

During this time all flows underwent primary screening and passed through the UV system. No untreated sewage was discharged into the surrounding environment.

During and after the incident, operators monitored and adjusted treatment to correct high faecal coliform count in effluent.

- Council operators carried out additional sampling at the effluent discharge point (EPA3) and in addition, monitoring of water quality upstream and downstream of the STP outfall at:
  - Brunswick Valley upstream of Ocean Shores STP (Federation bridge Mullumbimby)
  - Brunswick Valley downstream of Ocean Shores STP (Massey Greene Boat Ramp, Ocean Shores)

This incident was Self Reported to the EPA (EPA Ref:27136)

**Action taken or that will be taken to prevent a recurrence of the non-compliance ▼**

Take wetland offline to reduce vegetation load that is breaking up and flowing with the effluent to the UV disinfection.

**Uploaded Document Name ▼**

**Uploaded Document Description ▼**

**Licence condition number not complied with ▼**

Licence clause L4.1 – Volume Limit – Inflow Volume EPA Point 2

**Summary of particulars of the non-compliance ▼**

Inflow of 10,102 kL/day on 4 Apr 24 and 8,300 kL/day on 7 Apr 2024, in exceedance of the 8,000 kL/day inflow limit.

**Further details on particulars of non-compliance, if required ▼**

**Number of times occurred ▼**

2

**Date(s) when the non-compliance occurred, if applicable ▼**

04/04/2024 & 07/04/2024

**Cause of non-compliance ▼**

A rainfall event of 100mm occurred on 4 April 2024, which exceeded the stormwater system capacity. Rainfall continued over the next few days with an additional 39 mm falling on 7 April which was enough to again exceed the stormwater system capacity due to an already very wet catchment. The excess stormwater on both these occasions resulted in inflow and infiltration into the sewerage network, hence the very high inflows seen at the STP.

**Action taken or that will be taken to mitigate any adverse effects of the non-compliance ▼**



In this event, treatment capacity was not exceeded, and no treatment bypass occurred. Therefore, no action was taken above continual monitoring of the situation.

**Action taken or that will be taken to prevent a recurrence of the non-compliance ▼**

Continue to invest in Inflow and Infiltration reduction in the Ocean Shores sewerage system.

**Uploaded Document Name ▼**

**Uploaded Document Description ▼**

## D. Statement of Compliance - Load Based Fee Calculation

If you are not required to monitor assessable pollutants by your licence, **no data** will appear below.

If assessable pollutants have been identified on your licence, the following worksheets for each assessable pollutant will determine your load based fee for the licence fee period to which this Annual Return relates.

**Loads of assessable pollutants must be calculated using any of the methods provided in EPA's Load Calculation Protocol for the relevant activity.** A Load Calculation Protocol would have been already sent to you with your licence. If you require additional copies, you can download the Protocol from the EPA's website or you can contact us on telephone 02 9995 5700.

You are required to keep all records used to calculate licence fees for four years after the licence fee was paid or became payable, whichever is the later date.

Assessable Pollutant		Assessable Load	Actual Load	Pollutant Fee
<b>BOD discharged to Estuarine Water</b>		<b>853.0</b>	<b>853.0</b>	<b>\$2.29</b>
Load based licence activity	Actual quantity	Actual load (Calculation method)	Weighted Load (Calculation method)	Agreed load
Sewage treatment processing by small plants	652	853 (Source monitoring, Method: APHA 5210B)		
<b>Nitrogen (total) discharged to Estuarine Water</b>		<b>1730.0</b>	<b>1730.0</b>	<b>\$111.54</b>
Load based licence activity	Actual quantity	Actual load (Calculation method)	Weighted Load (Calculation method)	Agreed load
Sewage treatment processing by small plants	652	1730 (Source monitoring, Method: APHA 4500-N)		



<b>Oil and Grease discharged to Estuarine Water</b>		<b>691.0</b>	<b>691.0</b>	<b>\$111.38</b>
Load based licence activity	Actual quantity	Actual load (Calculation method)	Weighted Load (Calculation method)	Agreed load
Sewage treatment processing by small plants	652	691 (Source monitoring, Method: APHA 4500-N)		
<b>Phosphorus (total) discharged to Estuarine Water</b>		<b>73.0</b>	<b>73.0</b>	<b>\$47.07</b>
Load based licence activity	Actual quantity	Actual load (Calculation method)	Weighted Load (Calculation method)	Agreed load
Sewage treatment processing by small plants	652	73 (Source monitoring, Method: APHA 4500-P)		
<b>Total suspended solids discharged to Estuarine Water</b>		<b>2338.0</b>	<b>2338.0</b>	<b>\$119.34</b>
Load based licence activity	Actual quantity	Actual load (Calculation method)	Weighted Load (Calculation method)	Agreed load
Sewage treatment processing by small plants	652	2338 (Source monitoring, Method: APHA 2540 D)		

## E. Statement of Compliance - Requirement to Prepare PIRMP

<b>Have you prepared a Pollution Incident Response Management Plan (PIRMP) as required under section 153A of the Protection of the Environment Operations (POEO) Act 1997?</b>	<b>Yes</b>
Is the PIRMP available at the premises?	<b>Yes</b>
Is the PIRMP available in a prominent position on a publicly accessible website?	<b>Yes</b>
Address of the web page where the PIRMP can be accessed ▼	
<a href="https://www.byron.nsw.gov.au/Council/Plans-Strategies/Roads-Infrastructure/Pollution-Incident-Response-Management-Plans">https://www.byron.nsw.gov.au/Council/Plans-Strategies/Roads-Infrastructure/Pollution-Incident-Response-Management-Plans</a>	
Has the PIRMP been tested?	<b>Yes</b>
The PIRMP was last tested on	<b>1-7-2023</b>
Has the PIRMP been updated?	<b>No</b>
Number of times the PIRMP was activated in this reporting period?	<b>0</b>
The PIRMP was activated on	

## F. Statement of Compliance - Requirement to Publish Pollution Monitoring Data

Are there any conditions attached to your licence that require pollution monitoring to be undertaken as required under section 66(6) of the Protection of the Environment Operations (POEO) Act 1997?	<b>No</b>
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## G. Statement of Compliance - Environment Management System and Practices

Do you have an ISO 14001 certified Environmental Management System (EMS) OR any other system that EPA considers is equivalent to the accountability, procedures, documentation and record keeping requirements of an ISO 14001 certified EMS?	<b>No</b>
Have you conducted an assessment of your activities and operations to identify the aspects that have a potential to cause environmental impacts and implemented operational controls to address these aspects?	<b>Yes</b>
Have you established and implemented an operational maintenance program, including preventative maintenance?	<b>Yes</b>
Do you keep records of regular inspections and maintenance of plant and equipment?	<b>Yes</b>
Do you conduct regular (at least yearly) environmental audits at the premises that are conducted by a competent and independent person?	<b>No</b>
Have you undertaken an independent environmental audit covering documented environmental practices, procedures and systems in place during the annual return period?	<b>No</b>
Have you established and implemented an environmental improvement or management plan?	<b>No</b>
Do you train staff in environmental issues that may arise from your activities and operations at the premises and keep records of this?	<b>Yes</b>

## H. Signature and Certification





# Annual Return

BYRON SHIRE COUNCIL

Licence 784

This Annual Return may only be signed by person(s) with legal authority to sign it as set out in following categories: an Individual, a Company, a Public authority or a Local council.

It is an offence under section 66 of the Protection of the Environment Operations Act 1997 to supply any information in this form that is false or misleading in a material respect, or to certify a statement that is false or misleading in a material respect. There is a maximum penalty of \$250,000 for a corporation and \$120,000 for an individual.

I/We

- declare that the information in the Monitoring and Complaints Summary in Section B of this Annual Return application is correct and not false or misleading in a material respect, and
- certify that the information in the Statement and Compliance in sections A, C, D, E, F, G and H and any other pages attached to Section C is correct and not false or misleading in a material respect.

## Signed by: General Manager

Name	Mark Arnold
Position	General Manager
Email Address	MArnold@byron.nsw.gov.au
Phone Number	0266267155

Signature	
Name	
Position	
Date	/ /
<b>Declaration</b>  I declare that the information in the Monitoring and Complaints Summary in section B of this Annual Return is correct and not false or misleading in a material respect, and  I certify that the information in the Statement of Compliance in section A,C,D,E,F and G and any pages attached to Section C is correct and not false or misleading in a material respect.	