

### Government of Western Australia Department of Environment Regulation

## **Annual Audit Compliance Report Form**

Environmental Protection Act 1986, Part V

Section A – Licence	e Details		
Licence number:	L5989/1991/11	Licence file number:	2010/002537
Licence holder:	Water Corporation		
Trading as:	Northam Wastewat	er Treatment Plant	
ABN:	28 003 434 917		
Registered address:	629 Newcastle Stre	629 Newcastle Street, LEEDERVILLE, WA 6007	
Reporting period:	01/07/2020 to 3	30 / 06 / 2021	

#### Section B – Statement of Compliance with Licence Conditions

Did you comply with all of your licence conditions during the reporting period? (please tick the appropriate box)

□Yes – please complete:

- section C;
- section D if required; and
- sign the declaration in Section F.

⊠No – please complete:

- section C;
- section D if required;
- section E; and
- sign the declaration at Section F.

#### Section C – Statement of Actual Production

Provide the actual production quantity for this reporting period. Supporting documentation is to be attached.

Prescribed Premises Category	Actual Production Quantity
54	Inflow 1566m³/day

#### Section D – Statement of Actual Part 2 Waste Discharge Quantity

Provide the actual Part 2 waste discharge quantity for this reporting period. Supporting documentation is to be attached.

Prescribed Premises Category	Actual Part 2 Waste Discharge Quantity
Not Applicable	

#### Section E – Details of Non-Compliance with Licence Condition

Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period.

Condition no: 6	Date(s) of non- compliance:	13/01/2021	
-----------------	--------------------------------	------------	--

Details of non-compliance:

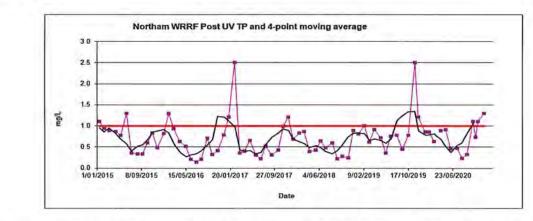
The Northam Wastewater Treatment Plant uses aluminum sulphate solution dosing in order to maintain Total Phosphorus levels to <1mg/L in treated wastewater discharged for Shire of Northam reuse or to the environment in the event that the Shire cannot not receive the treated wastewater. In accordance with the operating Licence, Water Corporation had discharged, from the final wastewater treatment pond to the Avon River with an average arithmetical mean of greater than 1.0mg/L in 3 of 4 consecutive monthly sample periods, from October 2020 to January 2021. The January 2021 result was received on 29 Jan 2021 and confirmed the non-compliance. DWER was notified in writing of the non-compliance on 1 February 2021

Sample Point Northam Final Effluent Wet Well Post UV	Flow (m³) through discharge flume:	Total Phosphorus reading date:	Total Phosphorus (mg/L)
September 2020	26149	09/09/2020	0.32
O-t-b 2000	0000	14/10/2020	1.1
October 2020	8369	29/10/2020	0.73*
November 2020	5972	10/11/2020	1.1
December 2020	1085	15/12/2020	1.3
January 2021	1434	13/01/2021	2.2

\*Reactive follow up sample taken after aluminium sulphate dosing was increased

What was the actual (or suspected) environmental impact of the non-compliance? **NOTE** – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.

The graph below shows that total phosphorous results are cyclical and were typical for that time of the year and not determined to have any additional negative environmental impact. The Avon is a highly disturbed river, influenced by urban, industrial, and agricultural activities; it was not flowing at the time of the event. It should be noted that it is uncommon for the WWTP to discharge to the environment over the summer months due to reduced inflow (holiday period), significant evaporation rates and the highest volumes of available wastewater routinely sent to the Shire of Northam for their re-use on public open spaces. The graph below indicates cyclical Total Phosphorous results only and does not indicate if in fact there was any discharge to the environment.



The average arithmetical was returned to less than 1.0mg/L (over 3 of 4 consecutive monthly sample periods) as of May 2021. There were multiple operational (12) and investigative (>24) samples taken between regulatory samples to ensure that contingencies and reactive measures

	Sample Point Northam Final Effluent Wet Well Post UV	Flow (m³) through discharge flume:	Total Phosphorus reading date:	Total Phosphorus (mg/L)	
	February 2021	999	10/02/2021	2.4	
	March 2021	12055	10/03/2021	1.08	
	April 2021	1619	14/04/2021	0.85	
	May 2021	17462	12/05/2021	0.80	
		) of non-compliance: factors that contrib		npliance however th	ne mos
	the inlet, outlet and	corners of nond A	Alexanium authore		
desludgi out in M pond ha non-com Action ta non-com Followin recomm	olids/sludge builds ing. Pond 4 require lay 2018. The profind likely not been en apliant conditions. aken to mitigate any apliance: g onsite investigation ended actions. The	up in a pond syst s de-sludging, on av iling carried out in F ntirely desludged (es adverse effects of r ons carried out in Jan nese included rais	stem and as a res verage, every 2 year February 2021 indica stimated 75% completion non-compliance and nuary 2021, a techni ing an Asset Defi	dosing increases the sult requires more f s, and had last been ated that at that in 2 ete) which contribute prevent recurrence of cal report was produc iciency Report (AD	frequen carried 2018 the ed to the f the ced with R) tha
desludgi out in M pond ha non-com Action ta non-com Followin recomm recomm recomm sludging 2021. In increasir used), tr ponds p to monit	olids/sludge builds ing. Pond 4 require lay 2018. The profi d likely not been en pliant conditions. aken to mitigate any ppliance: g onsite investigation ended actions. The ended that sonar se ed in February 202 of pond 4 in the 2 of the interim, prior ing the rate of alun reating pond 4 brie rior to discharge to	up in a pond system s de-sludging, on av- iling carried out in F ntirely desludged (es- adverse effects of r ons carried out in Jan hese included rais sludge profiling was 21. The de-sludging 2/23 financial year w to de-sludging, othe ninum sulphate dos fly with an algicide their re-use scheme	stem and as a respectively every 2 year rebruary 2021 indication stimated 75% completion non-compliance and nuary 2021, a techni- ing an Asset Defi- ing an Asset Defi- an Asset Defi- Asset Defi- Asset	sult requires more f rs, and had last been ated that at that in 2 ete) which contribute prevent recurrence of cal report was produc	frequent carried 2018 the ed to the d to the f the ced with R) tha included ds were e re-use dertaken
desludgi out in M pond ha non-com Action ta non-com Followin recomm recomm complete sludging 2021. In increasir used), tr ponds p to monit awaited	olids/sludge builds ing. Pond 4 require lay 2018. The profi- ind likely not been en- apliant conditions. aken to mitigate any apliance: g onsite investigation ended actions. The ended that sonar se ed in February 202 of pond 4 in the 2 of pond 4 in the 2 of the interim, prior ing the rate of alun reating pond 4 brie rior to discharge to or TP and other ind de-sludging.	up in a pond system s de-sludging, on av- iling carried out in F ntirely desludged (es- adverse effects of r ons carried out in Jan hese included rais sludge profiling was 21. The de-sludging 2/23 financial year w to de-sludging, othe ninum sulphate dos fly with an algicide their re-use scheme	stem and as a respectively every 2 year rebruary 2021 indicates stimated 75% completion non-compliance and nuary 2021, a techni- ing an Asset Defi- ing an Asset Defi- and the increased a . Constant and regulates a constant a cons	sult requires more finances, and had last been ated that at that in 2 ete) which contribute prevent recurrence of cal report was product iciency Report (AD natter of urgency. T ranged and the plan and completed in M s were taken which i and manual method peration of both Shire lar sampling was und	frequer carrie 2018 th ed to th f the ced wit (his wa ned de lay/Jun include ds wer e re-us dertake

#### Reported to DER verbally 1 1 Date: Reported to DER in writing Date: 29/01/2021

at a time during th	e reporting period.	Data(a) of non	1
Condition no:	4(b)	Date(s) of non- compliance:	03/03/2021
Details of non-con	npliance:		
(Bureau of Meteo significant downpo town. This downp network and our significant inunda Northam Wastewa the estimated volu	B February and 9.00am 4 I rology). As part of this rain e our for approximately 40 minu our placed significant stress own wastewater conveyance tion in multiple locations in ater Treatment Plant (WWTF ume that was lost from the tree ual (or suspected) environme	event in the evening of utes which resulted in la on both the Shire own e network and resulted icluding Secondary Tr P). An overtopping eve eatment pond during a	<sup>2</sup> 2 March 2021 there was a ocalised flooding across the ned stormwater conveyance d in overflows and areas of reatment Pond no.3 at the nt occurred and 5000L was 4 to 5 hour period.
NOTE – please atta compliance took pla	ch maps or diagrams to provide ice.	insight into the precise lo	ocation of where the non-
The 5000L that w	as estimated to be lost from	pond no.3 was partia	ally recovered and fed back
into the pond sys contained within t to the Avon Rive agricultural activit	as estimated to be lost from stem for completion of the w he bounds of the licensed pu r. The Avon is a highly dis ies; it was not flowing at the result of the overflow was as	vastewater treatment remises site. The North turbed river, influence time of the event. Res	process. All discharge was ham WWTP site is adjacent d by urban, industrial, and sidual risk to health and the
into the pond sys contained within t to the Avon Rive agricultural activit environment as a	stem for completion of the whe bounds of the licensed properties of the licensed properties. The Avon is a highly dissing it was not flowing at the	vastewater treatment remises site. The North turbed river, influence time of the event. Res sessed and considered	process. All discharge was ham WWTP site is adjacent d by urban, industrial, and sidual risk to health and the
into the pond sys contained within t to the Avon Rive agricultural activit environment as a Cause (or suspec	stem for completion of the whe bounds of the licensed pure. The Avon is a highly disting at the result of the overflow was asted cause) of non-compliance at there is a number of sto	vastewater treatment remises site. The North turbed river, influence time of the event. Res sessed and considered e:	process. All discharge was nam WWTP site is adjacent d by urban, industrial, and sidual risk to health and the d low.
into the pond sys contained within t to the Avon Rive agricultural activit environment as a Cause (or suspec It is suspected th conveyance netwo Action taken to mi non-compliance:	stem for completion of the whe bounds of the licensed pure. The Avon is a highly disides; it was not flowing at the result of the overflow was as ted cause) of non-compliance at there is a number of stoork. Tigate any adverse effects of	vastewater treatment remises site. The North turbed river, influence time of the event. Res sessed and considered e: mwater inundation po non-compliance and p	process. All discharge was nam WWTP site is adjacent d by urban, industrial, and sidual risk to health and the d low.
into the pond sys contained within t to the Avon Rive agricultural activit environment as a Cause (or suspec It is suspected th conveyance netwo Action taken to mi non-compliance: Asset investigatio into the conveyan inclusive of the pl flows as well as t infiltration/connec	stem for completion of the whe bounds of the licensed pure. The Avon is a highly disting at the result of the overflow was asted cause) of non-compliance there is a number of stoork.	vastewater treatment remises site. The North turbed river, influence time of the event. Res sessed and considered e: mwater inundation po- non-compliance and p ascertain where the size n communications wit within the conveyance ye into the stormwater points and rectifying t	process. All discharge was ham WWTP site is adjacent d by urban, industrial, and sidual risk to health and the d low. bints within the wastewater revent recurrence of the tormwater inundation points h DWER, investigations are e network to map abnormal r network to see where any them (in the short and long
into the pond sys contained within t to the Avon Rive agricultural activit environment as a Cause (or suspect It is suspected the conveyance netwo Action taken to minon-compliance: Asset investigation into the conveyant inclusive of the pl flows as well as t infiltration/connect term) will assist in events.	stem for completion of the whe bounds of the licensed pure. The Avon is a highly disting it was not flowing at the result of the overflow was asted cause) of non-compliance the cause) of non-compliance at there is a number of stoork. Tigate any adverse effects of a number of stoork. The currently underway to be constructed at a loggers of the current of 25 data loggers he inclusion of fluorescent ditions may be. Finding these	vastewater treatment remises site. The North turbed river, influence time of the event. Res sessed and considered e: rmwater inundation po- non-compliance and p ascertain where the s en communications with within the conveyance ye into the stormwater points and rectifying the secondary treatment	process. All discharge was ham WWTP site is adjacent d by urban, industrial, and sidual risk to health and the d low. bints within the wastewater revent recurrence of the tormwater inundation points h DWER, investigations are e network to map abnormal r network to see where any them (in the short and long
into the pond sys contained within t to the Avon Rive agricultural activit environment as a Cause (or suspect It is suspected the conveyance netwo Action taken to minon-compliance: Asset investigation into the conveyant inclusive of the pl flows as well as t infiltration/connect term) will assist in events.	stem for completion of the whe bounds of the licensed pure. The Avon is a highly disting it was not flowing at the result of the overflow was as ted cause) of non-compliance at there is a number of store. Tigate any adverse effects of a number of store ork. The are currently underway to be network are. As per writted a loggers he inclusion of fluorescent of the inclusion of fluorescent of the maintaining freeboard in the	vastewater treatment remises site. The North turbed river, influence time of the event. Res sessed and considered e: rmwater inundation po- non-compliance and p ascertain where the s en communications with within the conveyance ye into the stormwater points and rectifying the secondary treatment	process. All discharge was ham WWTP site is adjacent d by urban, industrial, and sidual risk to health and the d low. bints within the wastewater revent recurrence of the tormwater inundation points h DWER, investigations are e network to map abnormal r network to see where any them (in the short and long
into the pond sys contained within t to the Avon Rive agricultural activit environment as a Cause (or suspect It is suspected the conveyance netwo Action taken to minon-compliance: Asset investigation into the conveyant inclusive of the pl flows as well as t infiltration/connect term) will assist in events. Was this non-com	stem for completion of the whe bounds of the licensed pure. The Avon is a highly disting it was not flowing at the result of the overflow was as ted cause) of non-compliance at there is a number of store. Tigate any adverse effects of a number of store ork. The are currently underway to be network are. As per writted a loggers he inclusion of fluorescent of the inclusion of fluorescent of the maintaining freeboard in the	vastewater treatment remises site. The North turbed river, influence time of the event. Res sessed and considered e: rmwater inundation po- non-compliance and p ascertain where the s en communications with within the conveyance ye into the stormwater points and rectifying the secondary treatment	process. All discharge was ham WWTP site is adjacent d by urban, industrial, and sidual risk to health and the d low. bints within the wastewater revent recurrence of the tormwater inundation points h DWER, investigations are e network to map abnormal r network to see where any them (in the short and long

Section E - Det	tails of Non-Compliance	with Licence Cond	ition
	arate page for each condition ne reporting period.	n with which the licenc	e holder was non-compliant
Condition no:	Category 54- Capacity	Date(s) of non- compliance:	01/07/2020 - 30/06/2021
Details of non-cor	npliance:		
			capacity of 1,500m³/day. Due w throughout the 2020/2021
	ual (or suspected) environme ach maps or diagrams to provid ace.		
There are no dia capacity.	scernible environmental im	pacts from the incre	ase in average daily inflow
Cause (or suspec	ted cause) of non-complianc	e:	
attributed to high		ne second half of the	se in inflow can be partially reporting period. Stormwater ng investigated.
	itigate any adverse effects o		
Water Corporation works to increas commitments. Wa	e treatment capacity to 2,0	000 m <sup>3</sup> /day and to a	ER on 31/07/18 to undertake ddress the outstanding EIP nd with DWER to provide the
Was this non-com	pliance previously reported	to DER? Yes	
Yes, and			
Reported to	DER verbally	Date: / /	
Reported to	DER in writing	Date: AACR Augu	st 2018

# Section F – Declaration

I/We declare that the information in this Annual Audit Compliance Report is true and correct and is not false or misleading in a material particular<sup>1</sup>. I/We consent to the Annual Audit Compliance Report being published on the Department of Environment Regulation's (DER) website.

Signature <sup>2</sup> :	Signature:
Name: (printed)	Name: (printed)
Position:	Position:
Date:	Date:
Seal (if signing under seal):	

<sup>2</sup> AACRs can only be signed by the licence holder or an authorised person with the legal authority to sign on behalf of the licence holder.

<sup>&</sup>lt;sup>1</sup> It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular.