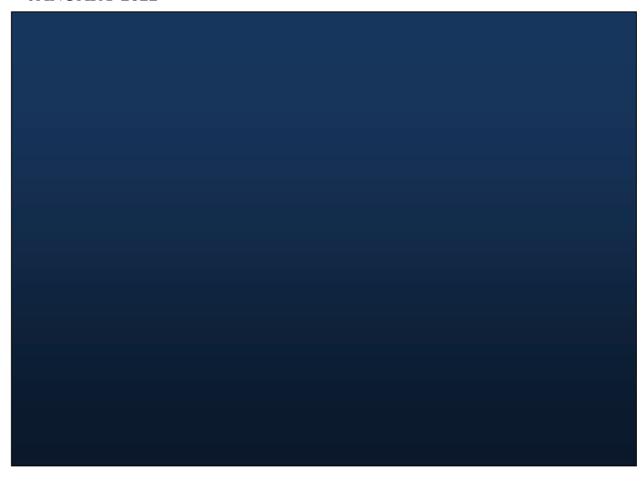


POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

NYNGAN SEWAGE TREATMENT SYSTEM



JANUARY 2022



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1.0 POLLUTION INCIDENT CLASSIFICATION, RISK ASSESSMENT AND CONTRIBUTING FACTORS

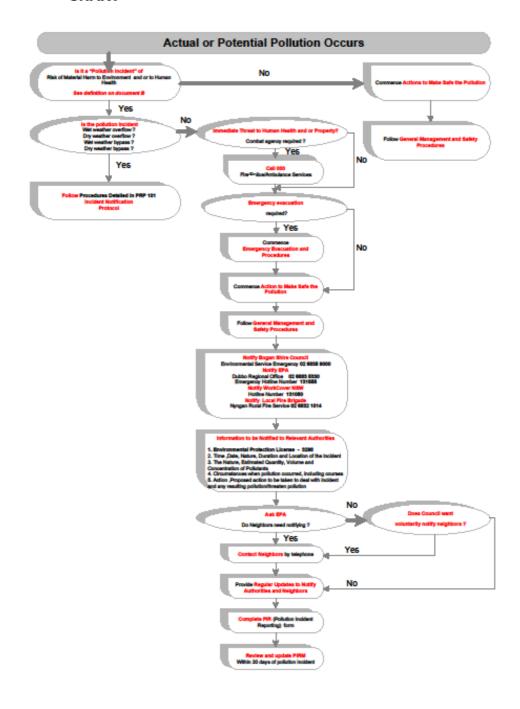
 Table 1.1 – Pollution Incident Classification, Risk Assessment and Contributing Factors

Description of Pollution Incident	Likelihood	Impact	Contributing Factors
Wet Weather Overflow from the reticulation system during wet weather.	refer to PRP 100 Sewer Overflow Investigations Report (Sections 5 & 7)	refer to PRP 100 Sewer Overflow Investigations Report (Section 6)	refer to PRP 100 Sewer Overflow Investigations Report (Section 5.1)
Dry Weather Overflow from the reticulation system during dry weather.	refer to PRP 100 Sewer Overflow Investigations Report (Sections 5 & 7)	refer to PRP 100 Sewer Overflow Investigations Report (Section 6)	refer to PRP 100 Sewer Overflow Investigations Report (Section 5.1)
Wet Weather Bypass at the sewage treatment plant (STP) and is when untreated sewage bypasses the sewage treatment process and discharges to the Box Cowl dry creak during wet weather.	Low	High	Prolonged periods of heavy rain, lack of pond and site maintenance and/or a mechanical failure of plant and equipment.
Dry Weather Bypass at the STP and is when untreated sewage bypasses the sewage treatment process and discharges to the Box Cowl dry creak during dry weather.	Low	High	Lack of pond and site maintenance and/or a mechanical failure of plant and equipment.
Pond failure at the STP;	Low	Low	Prolonged periods of heavy rain, lack of pond and site maintenance and/or a mechanical failure of plant and equipment.
Mechanical failure at the STP results in discharge of untreated sewage.	Low	High	Fire damage or poor maintenance of plant and equipment. Prolonged periods of heavy rain.
Mechanical failure at the STP results in offensive odour from the premises.	Low	Low	Fire damage or poor maintenance of plant and equipment.
Inadequate chemical storage.	Low	Medium	Human error. Chemical fire accelerated by high winds, dry weather, prolonged periods of high temperatures and low humidity.
Acts of vandalism or target of terrorist activity at the STP.	Low	Medium	Increased risk during hours of closure
Reticulation and Rising Main pipeline breakage.	Low	Low	Poor maintenance of plant and equipment. Flows exceeding pipe and pump capacity
Exceed Environment Protection Licence (EPL) discharge limits to the re use pond.	Low	Low	Prolonged periods of heavy rain and mechanical failure of plant and equipment
Significant adverse environmental impact from irrigation in utilisation areas.	Low	Low	Human error. Lack of control and/or monitoring. Prolonged periods of heavy rain.



2.0 DOCUMENT A - POLLUTION INCIDENT DECISION FLOW CHART

2.0 DOCUMENT A - POLLUTION INCIDENT DECISION FLOW CHART





3.0 DOCUMENT B – POLLUTION INCIDENT EMERGENCY CONTACT DETAILS

3.1 DEFINITION OF POLLUTION INCIDENT

A pollution incident is required to be notified if there is a risk of 'material harm to the environment', which is defined in section 147 of the *POEO Act 1997*:

- "(a) harm to the environment is material if:
 - i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or
 - ii) it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, and
- (b) loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment."

3.2 NOTIFICATION OF POLLUTION INCIDENT

3.2.1 Notification Speed of Response

The requirement for notification of a pollution incident has changed from 'as soon as practicable' to 'immediately'. In short, 'immediately' means 'promptly without delay', but it does not mean undertaking notification ahead of doing what is necessary to make safe.

3.2.2 Notification of Relevant Authorities

If the pollution incident is a wet weather overflow, dry weather overflow, wet weather bypass or dry weather bypass procedures need to be followed in Council's *PRP 101 Incident Notification Protocol*, *October 2012*.

In all other pollution incident cases and where the pollution incident causes or threatens material harm to the environment or human health, the Site Supervisor must notify all the following authorities:

Notification of Relevant Authorities

1. Emergency Call Services

Emergency Hotline Number (24 hours)

000*

*The Site Supervisor should call 000 if the incident presents an immediate threat to human health and/or property and a combat agency is required (i.e. NSW Fire and Rescue, NSW Ambulance Service, NSW Police Force) and then notify all other parties below including NSW Fire and Rescue via a local telephone number.

2. Bogan Shire Council

Bogan Shire Council Environmental Services

(02) 6835 9000

The Environment Protection Authority (EPA)

(02) 6883 5333

Dubbo Regional Office

131 555

Emergency Hotline Number (24 hours)

4. NSW Ministry of Health (via Public Health Units)

Nyngan Health Service

(02) 6835 1700

Environment and Health Officer on Call (24 hours)

0428 239 490

5. SafeWork NSW

3.

Hotline Number

13 10 50

6. Fire and Rescue NSW

Nyngan Rural Fire Service

(02) 6832 1014

If there is no immediate threat to human health and/or property i.e. a combat agency is not required, then the Site Supervisor is still required to follow that outlined above except for dialling 000.



3.2.3 Information to be Notified

Under section 150 of the *POEO Act 1997*, the information about a pollution incident that must be notified to relevant authorities is:

- The time, date, nature, duration, and location of the incident;
- The location of the place where pollution is occurring or is likely to occur;
- The nature, the estimated quantity or volume and the concentration of any pollutants involved, if known;
- The circumstances in which the incident occurred, including the cause of the incident, if known;
- The action taken or proposed to be taken to deal with the incident and any resulting pollution or threatened pollution, if known; and
- Other information prescribed by the regulations.

The Site Supervisor is required to notify immediately after a pollution incident becomes known. Any information required that is not known at the time the incident is notified must be provided when it becomes known.

3.2.4 EPA Powers of Direction & Notification of Neighbours

Where the pollution incident causes or threatens material harm to the environment or human health, the EPA is notified in accordance with **Section 3.2.2.**

Once the EPA is notified, it is then for the EPA to determine whether commercial, industrial and residential neighbours of the site need to be contacted by Council and informed of the circumstances of the incident and what action is being taken in response to it. If deemed necessary, the EPA then has powers to formally direct Council to notify the neighbours of the site.

Irrespective of whether the EPA directs Council to notify neighbours and depending on the circumstances of the pollution incident, Council may at their own discretion voluntarily choose to notify neighbours.

Council would notify neighbours by making a telephone call to every neighbouring property of the STP as detailed in **Table 2.1** below and as identified on enclosed Site Plan. A summary of the neighbour notification procedure is provided in **Document A** - Pollution Incident Decision Flow Chart.

Table 2.1 – List of Neighbours to be Notified

Location	Contact Name	Property Address	Contact	Comments
Sewage Reuse Plant	LR Smith	PO Box 230, Nyngan NSW 2825	0438261281	Lot 38 DP 783420
Reuse Plant	TT & SA Waterhouse	PO Box 223, Nyngan NSW 2825	68321458	Lot 39 DP 753420
	T Rope	Yelate, Moonagee Rd, Nyngan NSW 2825	68321214	Lot 41 DP 848853
Chemical Storage	Telstra Corporation Ltd	C/- Jll Locked Bag 2, Hutt St Adelaide SA 5000	1300 327 005	Lot 12 DP 773711
(Water Treatment Plant)	BOGAN SHIRE COUNCIL	PO Box 221, Nyngan NSW 2825	68359000	LOT 4 DP 758802 Section 31
r iditi)	The Trustees Of, Anglican Property Trust	PO Box 2, Nyngan NSW 2825	68321019	Lot 6 Section 31 DP 758802
	MS & RJ Cashion	64 Bogan St, Nyngan NSW 2825	0418456981	Lot 81 DP 1010259
	RE & SM Black	PO Box 189, Nyngan NSW 2825	68321773	Lot 1 DP 965760



_				
Sewer Pump Station-01	RE Whiteford	25 Wambiana St, Nyngan NSW 2825	68321595	LOT 12 Section 20 DP 758802
	B Murden	33 Wambiana St, Nyngan NSW 2825	68322496	LOT 13 DP 758802 Section 20
	Bogan Aboriginal Corp.	Locked Bag 7466, Liverpool NSW 1871	68321750	Lot 8 DP 758802 Section 20
	RB Powyer & TL Skewes	PO Box 119, Cunnamulla Qld 4490		Lot A DP 102854
	RE & SM Black	PO Box 189, Nyngan NSW 2825	68321773	Lot B DP 102854
	JD Neyland	24 Nymagee St, Nyngan NSW 2825		Lot B DP 392243
	Department Of Housing	PO Box 466, Liverpool NSW 2170	93776000	Part LOT 3 DP 758802 Sec 20
Sewer Pump Station-03	LE Skewpeck	GPO Box 260, Nyngan NSW 2825	68321562	Lot 10 DP 42135
Station-03	Tritton Resources Pty Ltd	PO Box 386, Nyngan NSW 2825	68381120	Lot 6 DP 42135
	DJ Clarke	73 Cathundril St, Nyngan NSW 2825	68322097	Lot 7 DP 42135
	KL & JP Jackson	71 Cathundril St, Nyngan NSW 2825	68321959	Lot 8 DP 42135
	BM Clarke	77 Cathundril St Nyngan NSW 2825	68322259	Lot 9 DP 42135
Sewer Pump	GD Eldridge	97 Cobar St, Nyngan NSW 2825	0428321436	Lot 1 DP 327199
Station-02	GV & BE Parsons	PO Box 262, Nyngan NSW 2825	68321826	Lot 1 DP 925785
	WA Williams	90 Bogan St, Nyngan NSW 2825	68322641	Pt Lot 51 DP 604596, Lot 2 DP 318171
	GV Parsons	PO Box 262, Nyngan NSW 2825	68321826	Lot 10 DP 1111471
Sewer Pump Station-04	BK & JL Webster	16 Hoskins St, Nyngan NSW 2825	0487770019	Lot 11 DP 1266987
Otation 04	LV Morrow	35 Ellen St, Nyngan NSW 2825		Lot 3 DP 261826
	Tritton Resources Pty Ltd	PO Box 386, Nyngan NSW 2825	68381120	Lot 4 DP 261826
	J Bonnello	31 Ellen St, Nyngan NSW 2825		Lot 5 DP 261826
	WW & DT Powell	P O Box 88, Nyngan NSW 2825	0418438227	Lot 56 DP 613677
	SL Vane & TG Bennett	27 Ellen St, Nyngan NSW 2825	0448444426	Lot 7 DP 261826

3.2.5 Sewage Treatment System Council Contact Details

The following Council officers are directly responsible for the overall management of the NSTS and, if considered necessary, can be contacted by relevant authorities in the event of a pollution incident:

Trevor Waterhouse Works and Services Manager Bogan Shire Council	0409 078 762
Graeme Bourke Director Engineering Services	0427 264 262
Bogan Shire Council	



4.0 POLLUTION INCIDENT REPORTING FORM

INCIDENT NO:	TIME:			
DATE:	DURATION OF INCIDENT:			
NATURE OF INCIDENT:				
WEATHER CONDITIONS:				
THE LOCATION OF THE PLACE WHERE POLLUTION IS O	CCURRING OR IS LIKELY TO	OCCUR:		
THE NATURE, THE ESTIMATED QUANTITY OR VOLUME AND THE CONCENTRATION OF ANY POLLUTANTS INVOLVED (IF KNOWN): THE CIRCUMSTANCES IN WHICH THE INCIDENT OCCURRED, INCLUDING THE CAUSE OF THE INCIDENT (IF KNOWN):				
THE CORRECTIVE ACTION TAKEN OR PROPOSED TO BE RESULTING POLLUTION OR THREATENED POLLUTION (IF		NCIDENT A	ND ANY	
HAS COUNCIL BEEN NOTIFIED?		YES	No	
HAS ENVIRONMENT PROTECTION AUTHORITY (EPA) BE	EN NOTIFIED?	YES	No	
HAS NSW MINISTRY OF HEALTH (VIA PUBLIC HEALTH L	JNITS) BEEN NOTIFIED?	YES	No	
HAS WORKCOVER NSW BEEN NOTIFIED?		YES	No	
HAS LOCAL FIRE AND RESCUE NSW BEEN NOTIFIED?		YES	No	



HAS EPA DIRECTED COUNCIL TO NOTIFY NEIGHBOURS?	YES NO
IF NOT, HAS COUNCIL VOLUNTARILY NOTIFIED NEIGHBOURS?	YES NO
Signature: Works and Services Manager, Bogan Shire Council	Date:
Signature: Director Engineering Services, Bogan Shire Council	Date:



5.0 PIRMP TESTING & UPDATE REGISTER

Date	Routine Testing	Routine Update	Post Incident Updates	5 New Copies Distributed
16/06/2020	Desktop exercise with all four sewer staff	 Update contact details Update Council contacts Update agency details 	N/A	YES
11/01/2022		 Table 2.1 - Update contact details All - Update current position titles (Bogan Shire Council personnel) Update agency details Licence updated 		YES



6.0 STAFF TRAINING REGISTER

Date	Staff Member	Brief Description of Training Task
16/06/2020	Cameron Bourke Todd Milligan Jak Jeffery Ryan Nipperess	 Overview of full PRIMP and Supporting Statement Discussion of potential incidents Worked through various possible pollution incidents and treatments
	Conducted by Trevor Waterhouse	Conducted by Trevor Waterhouse



7.0 PUMPING STATION 3 - SPARE PUMP TESTING REGISTER

The details of the period testing undertaken on the spare pump for PS3 is to be provided in the following table. The testing is to be undertaken to ensure that this pump is in working condition if/when it is required. Testing should be undertaken at least annually.

The location of where the pump is stored following the testing is to be stated in the Work's Description column below.

Date	Staff Member	Work's Description
-		
-		



APPENDIX 1 - SEWAGE OVERFLOWS REPORT FINAL JAN 2008



The reticulation system has no recorded overflows and they are unlikely to occur. The system is in good condition for its age, indicated by camera inspections, lack of chokes and breaks in mains, and low flow increases in all but severe wet weather. Sub-system ages vary from 16 to 52 years. The system has ample storage capacity in deep sewers, access chambers and pumping stations. Low pump run times indicate spare pumping capacity. Pumping stations have 2 pumps alternating duty and backup roles, except that Pumping Station 3 (PS3) has one pump, with a spare ready for immediate changeover

An overflow requires extended system failure and inaction, with abnormal heavy and/or sustained rain, to fill the pumping stations, access chambers and pipes – a situation also providing high dilution in the sewers and on the ground. If it occurs, several access chambers would overflow before pumping stations, and:

- PS1 area overflows would head to the lower weir pool if flood gates are left open;
- PS2 area overflows would head east away from the river;
- PS3 area overflows would head for modified bushland and the lagoon adjacent to ovals off Terrangion Street;
- PS4 area overflows from the area east of Hoskins Street (north) would head for:
 - A shallow underground prior stream bed via a stormwater soakage pit,
 - Modified bushland off Jubilee St if the drainage channel and soakage pit near PS4 backs up into the overflow channel in Derrybong St;

Analysing 4 years' data indicated that Peak Wet Weather Flow and infiltration are within accepted norms and within system capacity.

However, an unusually severe storm on 21st December 2007 showed higher PWWF and infiltration effects. The storm was intense from 9:50pm for 20 minutes and then eased off. Pump hour meter readings next morning were at different times. Estimated flows for the first 24 hours show higher peak flows than indicated by the raw data, but still within system capacity. PS1 ran for 7 of the first 8 hours.

There is a low risk of overflows generally, with no history and low likelihood given the spare system capacity. The 21st December 2007 storm confirmed this assessment.

Therefore there are no new priority actions or new major capital investment required to deal with potential sewer overflows in the short to medium term.

This desk top assessment using existing data is appropriate to a small system with low overflow risk. Extensive modelling or water quality monitoring is unnecessary.

4. Reticulation system data

The reticulation system has four catchments defined by the downstream pumping station. Three small pumping stations are "piggy backed" onto PS1 which pumps all to the STW.

Sewage is mainly domestic in nature. There are no heavy industry or large trade waste dischargers – the RSL club is probably the largest.

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Table 1 - Sewerage catchments data:

Catchment:	PS1	PS2	PS3	PS4
Pumping	Nymagee Lane	Comer of	Nyngan Public	Hoskins St at rear
Station	between Mudal	Dandaloo St &	School, corner of	of Powells'
Location	and Terangion	Cobar Lane	Derrybong &	residence
	Streets		Cathundril Streets	
Catchment	Whole town,	Terrangion St,	Hoskins, Oxley,	Hoskins St,
boundaries,	including	railway,	Dandaloo &	Jubilee St,
approx	discharges from	Cemetery Rd,	Cannonbar Sts	Hospital Rd,
	PS2, PS3, PS4	Warren St		Mitchell Hwy
No. of	900	270 dwellings	52 dwellings plus	65 dwellings,
connections,		& commercial,	primary school	commerc/indust.
approx		plus RSL club		Hospital to 03/08.
		& 1 motel		Caravan park
Est. population	2200	650	130	170
Equivalent	Not calculated	Not calculated	Not calculated	Not calculated
Tenements				
Reticulation	1	2	3	4
Construction	1955, 1960	1955, 1960	1986, or older	1991
Length, m			859m approx	956.3
Ave depth, m	1.4 – 7.0	1.4 – 7.0	1.5 – 3.5	1.03 - 7.52
Pipe sizes, mm	210m x 225mm	477m x 225mm	150	433.7m x 225mm
	Rest 150mm	Rest 150mm		Rest 150mm
Pipe material	Vitrified Clay	VC, 267m conc	VC 176m uPVC	Concrete TBC
Average	Fair/good. Part	Fair/good – no	Good	Good
condition	insp. straight	service issues		
	pipes & joints,			
	minimal tree			
	roots, no acid,			
	fat deposits.	27	37 37	37 37
Overflow or	No structures.	No structures.	No structures. No	No structures. No
flow relief	No overflows.	No overflows.	overflows. Fill	overflows. Fill
structures in	Fill whole	Fill whole	system, overflow	whole system
reticulation	system before	system before	access chambers.	before overflow
system	overflow at	overflow at	Raised tops b/n	at access
	access	access	Hoskins, Oxley	chambers.
	chambers.	chambers.	Derrybong &	
Potential	High dilution &	High dilution &	Cathundril Sts High dilution &	High dilution
Overflow	High dilution &	spread on flat		High dilution.
Destination	spread on flat terrain. Surface	terrain. Local	spread on flat terrain. Local	Adjacent soakage basin & storm
(if it occurs)	drains to levee	surface drainage	surface drainage –	water overflow
(II II occurs)	gates, weir	- lane, kerb &	kerb & gutter.	channel north to
	pool.		Kero ee guiter.	Jubilee St. bush
	poor.	gutter.		Juonee St. Jush

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Pump Station:	1	2	3	4
Туре	Wet well	Dry/wet well	Wet well	Wet well
No. of pumps	2	2	1 + spare	2
Pump capacity	Design 104 1/s. 96.85 1/s in test 5/6/97. Calc's use 94.1 1/s. 2006 test - flow rate varies	26.6 1/s Test 5/6/97	8.1 1/s Test 5/6/97	14.8 1/s Test 5/6/97
Constructed:	1960?	1960?	1986	1991
Refurbished:	1991	1991		
Wet well depth				
Wet well vol				
Measurement	Start counter &	Start counter &	Start counter &	Start counter &
equipment	hour meter	hour meter	hour meter	hour meter
Analysis of 4 year	rs records:			
Pump records	13/2/04-7/12/07	13/2/04-7/12/07	13/2/04-7/12/07	5/11/04-7/12/07
Ave no. of starts	15 starts/day	12	40	9
Ave pump run	2.13 hr/day	1.69 hr/d	1.96 hr/d	0.80 hr/d
ADWF run time	2.1 hr/day	1.5 hr/day	1.7 hr/day	0.6 hr/day
Ave storage	1.4 hr	1.9 hr	0.6 hr	2.6 hr
Ave. discharge	0.722 ML/day *	0.161 ML/d *	0.057 ML/d *	0.042 ML/d *
Ave yearly	264 ML/yr *	59 ML/yr *	21 ML/yr *	15 ML/yr *
Est ADWF	0.700 ML/d *	0.143 ML/d *	0.050 ML/d *	0.033 ML/d *
Long term PWWF	2.788 ML, 8.2 hr on 9/11/05 - rain 27.6mm over 6 days. (2.30 ML - 54mm rain on 21/10/05) *	0.490 ML/d on 21/10/05 *	0.117 ML/d *	0.082 ML/d *
PWWF multiple (peak/ADWF)	4.0	3.4	2.3	2.2
	2/07 severe storm			ngs - various times)
Pump run 20/12	1.99 hr	1.73 hr	1.40 hr	0.69 hr
Pump run 21/12	8.99 hr	6.9 hr	5.7 hr	4.14 hr
Pump run 22/12	7.81 hr	4.6 hr	2.6 hr	1.42 hr
Pump run 23/12	4.45 hr	1.80 hr	1.2 hr	0.67 hr
Pump run 23-28	Ave 5.05 hr	Ave 1.47 hr	Ave 1.1 hr	Ave 0.60 hr
Pump 29/12-4/1	Ave 4.17 hr	Ave 1.36 hr	Ave 1.6 hr	Ave 0.72 hr
PWWF multiple (peak/ADWF)	4.3	4.6	3.4	6.9
Estim pump run time next 24 hrs	11.6 hr	8.3	6.1	4.4
Adjust PWWF	5.5	5.5	3.6	7.3

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multiplier						
Operator	Max ½ full in		Max ½ full in wet			
observation	wet weather		weather			
Is there a peak	Yes – not	Yes – not	No	Yes - check new		
flow issue?	severe from	severe		estate access		
	storm, possible			chambers & level		
	infiltration from			of top of PS4		
	river, new estate					
Alarm/telemetry	Alarm	Alarm	Alam	Alarm		
Overflow or	Not required.	Not required.	Not required.	Not required.		
flow relief	Overflow from	Overflow from	Overflow from	Overflow from		
facility at pump	access	access	access chambers.	access chambers.		
station	chambers.	chambers.				
Condition	Good.	Fair, functional.	Good. Pump	Good, some		
	Refurbished.	Pumps serviced	regularly	corrosion. Pumps		
	Pumps serviced	regularly.	serviced, becomes	serviced regularly		
	regularly.		standby spare.			
Rising Main:	1	2	3	4		
Destination	STW	A/31 to PS1	A/31 to PS1	AJ/1 to PS1		
Length, m	1274	439	330			
Diameter, mm	200	150	100	150		
Year	1960	1960	1986	1991		
constructed		Replaced 1997				
Pipe material	Cast iron	Cast iron	uPVC	upVC		
Condition	Not known	Poor – replace	Good	Good		
System or	N/A	N/A	N/A	N/A		
catchment						
modelling						
COTTO						
STW:	200516	2723 77 2				
Total yearly inflo		278 ML *				
	Total yearly inflow 2006/7		185 ML *			
Treated effluent outflow, ML/yr		86 – 176 ML/yr (8 yrs average is 129 ML/yr)				
Daily effluent 200		0 – 0.825 ML (average 0.258 ML)				
Licence effluent flow, ML/d		0.750 ML				
		4 . 7 4	4			
No. of times exce	ed licence	1 in July 2006 (#	see later) ek & 0.012ML next v			

^{*} Flows are overstated - calculations from pump run time don't allow for fall in efficiency. Higher peaks that had transcription or calculation errors or did not match up with rain are excluded. Some dry weather peaks apparently similar magnitude to wet weather peaks. Also, pump meters are read at different times in the mornings, causing daily fluctuations.

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Soils vary and include loams, clays and sandy prior stream beds, with little or no ground movement affecting sewers. Grass growth is limited to short seasons. Trees are deep rooted and occasionally choke a shallow property service but not the deeper sewers.

5. Identifying the likelihood of overflows

The discharge licence requires recording of each observed or reported overflow from particular parts of the STW and the reticulation system. DECC expects analysis of at least two years of monitoring data. Four years are analysed. There is no system modelling.

There have been occasional high flows of treated effluent through the STW outlet.

There is no history of overflows in the reticulation system. It is unlikely as it needs several days of system failure (eg. failure of duty and standby pumps or switchboards), inaction and enough rain to fill the reticulation system to overflow from access chambers. The 21st December 2007 storm produced heavy runoff, building damage and long pump run times, but no reticulation overflows.

Property services:

Some chokes from tree roots, easily repaired, responsibility of residents.

Council's reticulation gravity sewers:

- Overflow is more likely from access chambers than a pumping station if the reticulation fills up - no recorded overflows from access chambers;
- Operator cannot recall digging up deep sewers for chokes, roots or repairs;
- Low infiltration wet weather flows are not high, thunderstorms barely register;
- The reticulation system is in good condition for its age, mostly around 50 years old and 20 years old. Partial camera inspections show intact pipes and joints;
- Some sewers in the small PS4 catchment may intersect a shallow underground stream, but flows are not high in proportion to population.
- An overflow requires long term failure of both pumps downstream.

Pumping stations:

- Flow volumes are calculated from pump run times without accounting for changes in flow rates due to gradual loss of efficiency, periodic overhauls and blockages.
 Recorded flow volumes therefore overstate the actual volumes pumped:
 - Increasing run times without rain indicate slowly declining pump efficiency and eventually triggers a service;
 - Temporary high run times indicate a rag jamming a non-return valve open with sewage draining back and re-pumped (recycling, no extra sewage);
 - Spikes in pump start frequency and normal run times can indicate a rag over the probe causing frequent starts and stops (eg. PS4 early Nov 2007);
 - Small pump stations show relatively bigger data spike anomalies.
- Low overflow risk wet well tops are above access chambers, esp. PS1, PS2, PS3.

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Infiltration does not appear to be a significant issue based on analysis of the four years of data available from a period of drought with occasional storms to increase flows:

- Increases of Peak Wet Weather Flow (PWWF), over Average Dry Weather Flow (ADWF) are within reasonable tolerances in that period;
- Thunderstorms rarely produce significant spikes in pumping times;
- There is generally low sensitivity to small or isolated storms;
- A wet week with falls up to 25mm increased PS1 run time from 2.1 to 3.61 hours on 30 June 2005, 1.7 times ADWF of 0.7 ML/d (or increase to 15% of capacity);
- PWWF multipliers for the older PS1 and PS2 systems were reasonable at 3.4 to 4.0. PWWF multipliers for newer PS3 and PS4 systems were low at 2.2 to 2.3

PS1 readings up to 2.517 ML/day in October 2005 and 2.788 in November 2005 coincided with rain and a run in the Bogan River. PS2, PS3 and PS4 are further from the river and had smaller rises. A high river possibly influences the PS1 catchment.

However, a few hours after forwarding a draft of the report on 21st December 2007 with the above analysis, the most severe storm in memory became the likely worst case for PWWF. Unusually intense rain for 20 minutes was followed by showers for the next day.

PS1 pump run in the following 24 hours is estimated as 11.6 hours, including 7.2 of the first 8 hours and 4.4 of the next 16 hours. A new access chamber at the new hospital site was submerged, contributing extra flow, and should be raised.

PS1 run times were high for the next 2 weeks (average 5.05 hours for rest of the first week and 4.17 hours for second week). This period saw little rain but a high river. The other pumping stations quickly dropped back to normal flows, supporting the thought that a high river influences the PS1 catchment.

- PS2 ran for 6.9 hours new PWWF multiplier is 4.1;
- PS2 dropped to 4.6 hours a day later and then back to normal quick recovery, no delayed ground inflow;
- PS3 ran for 5.7 hours. Previous week average with drought and water restrictions was 1.3 hours, but 4 years average is 1.96 hours. New PWWF multiplier is 2.9;
- PS4 ran for 4.14 hours, then 1.42 next day and then slightly below average for the holiday period. Local sheet flooding may have overtopped the wet well for a few minutes. new PWWF multiplier is 5.2;
- PS4 new access chambers in subdivision check if submerged.

Sewage Treatment Works:

- Occasional high wet weather flow increases the discharge of treated effluent briefly to Box Cowal and reduces detention time, but there is spare capacity. Eg. in the week 11 - 17 June 2005 (same as PS1 eg. above) inflow increased 0.6ML, 0.7ML rain fell onto lagoons, less evaporation, and outflow increased 1.7ML;
- Low wet weather multiplier. Over 2003 2007, rain falls did not significantly increase sewage inflows - typically less than 1.5 times normal. The highest increase was 2.4 times. The data can be improved when a wetter season occurs;

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- No bypass around the STW, therefore no overflow of untreated sewage;
- Discharge of partially treated effluent is limited to rare extreme rain events.

Overflow monitoring data is summarised in the following table.

Table 2 - Overflow occurrences 2006/7:

Component	Dry weather overflows	Wet weather overflows
Reticulation PS1 per 100km	0	0
Reticulation PS2 per 100km	0	0
Reticulation PS3 per 100km	0	0
Reticulation PS4 per 100km	0	0
PS1	0	0
PS2	0	0
PS3	0	0
PS4	0	0
Designed overflow retic	Not applic, not designed	Not applic, not designed
Sewage treatment works	N/A	1 high treated effluent
		discharge reported #

Further investigation reveals that the high discharge reported in the July 2006 annual return is not consistent with other data – the 20mm of rain did not cause a spike in flows at any pumping stations. Strong winds some times push more treated effluent out.

A qualitative assessment of the likelihood of overflows uses the following table. Further assessment is only necessary if circumstances change. Eg. if any overflows are recorded.

Table 3 - Classification of likelihood of overflow occurrence:

Level	Classification	Description
A	Almost certain	The event is expected to occur in most circumstances. Eg: – overflows have occurred numerous times a year, and/or – overflow rate is well above benchmark average
В	Likely	The event will probably occur in most circumstances. Eg: – overflows have occurred a few times a year, and/or – overflow rate is above benchmark average
С	Moderate	The event should occur at some time. Eg: – overflows have occurred at least once year, and/or – overflow rate is around the benchmark average
D	Unlikely	The event could occur at some time. Eg: – overflows have been recorded once, and/or – overflow rate is below the benchmark average
Е	Rare	The event may occur only in exceptional circumstances. Eg: – overflows have not been recorded, and/or – overflow rate is well below benchmark average

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Table 4 - Assessment of the likelihood of overflows:

Component	Likelihood of overflows in dry weather	Likelihood of overflows in wet weather
	in dry weather	in wet weather
Catchment 1	E	E
Catchment 2	E	E
Catchment 3	E	E
Catchment 4	E	E
Sewage pumping station 1	E	E
Sewage pumping station 2	E	E
Sewage pumping station 3	E	E
Sewage pumping station 4	E	E
Sewage Treatment Works	n/a	C now, E from March 2008

Assessment of public health and environmental impacts

Public health and environmental impacts of sewage overflows are assessed:

- Reticulation system split into catchments defined by pumping stations and age.
- For significant structural elements assess impacts near overflow relief structures:
 - Designed overflow points there are none;
 - Pump stations there are none, access chambers overflow first;
 - STW existing discharge to Box Cowal, but change to re-use from 2008.

An extreme rain event causing an overflow would greatly increase dilution.

Pumping Station 1

The available storage requires a storm to cause an overflow. An overflow in the PS1 catchment may potentially move toward the lower weir pool. An assessment would be required as to whether the diluted overflow is best kept inside the levee by closing flood gates if the river is below 3.30m or let run out to avoid backing up into the urban area.

The gates are closed for river heights above 3.30m. Stormwater is pumped over the levee. A sewage overflow would be highly diluted in the river - better than sitting in the drain.

Between 3.00 and 3.30m the gates are left open despite some flood flow inward up the channels, to allow local storm flows to escape as the pumps would be slower.

Pumping Station 2

A PS2 overflow would run east and north to Pangee and Hoskins Streets intersection and then easterly toward the GHA silos and levee culverts, away from the river. Connection to the river would require a severe storm that had to be pumped over the levee, coinciding with something like a repeat of the 1990 flood. Dilution would be very high.

Pumping Station 3

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A PS3 overflow has a long surface drainage path to fenced modified bushland within the flood levee. The 21st December 2007 storm raised the lagoon level and pooled runoff in undeveloped low areas upstream to within a town block of PS3. A severe storm shortens the flow path to that temporary standing water but increases dilution.

Pumping Station 4

A PS4 overflow has a long surface drainage path to bushland within the flood levee.

A drainage soakage pit adjacent to PS4 usually has some water in it. This is associated with a shallow sandy prior stream that crosses the north east corner of the town. Soakage is slow, taking several days after a storm to drop the water level.

In a rare severe storm event like 21st December 2007, the soakage pit and its inflow channel fill up and the storm water overflows into a slightly higher channel. It runs north along Derrybong and Hoskins Streets to Jubilee Street and a low lying area in grazed light bushland. This low area is undeveloped and might be a swamp if there was more rainfall.

A second drainage path runs north between houses across Merilba Street, sits in low areas near some houses between Merilba St, Jubilee St and Hospital Road and gradually drains away afterward. This area acts as a natural detention basin. Again, dilution would be high.

Table 5 below describes the potential impacts on the environment if an overflow occurs.





Table 5 - Information on the environment potentially affected by overflows:

Consideration	Information available
Peak flow rates, pipe size and	Some data available.
response time which may assist in	
estimating sewer overflow volumes	
Flow rates and water volumes of	Lower Weir pool – usually still water, approx 200
affected waterways to assist in	ML, long path to reach it, high dilution.
determining the impact of overflows	Bogan River downstream - usually dry, floods pick
	up treated effluent in Box Cowal at 3.30m on
	gauge, but high dilution. Not applicable from 2008.
	Lagoon, Terrangion St – no data, 700m to PS3.
Water quality and aquatic ecosystems	Minimal data available – possible endangered river
	snail in weir pool. See 'Review of Aquatic
	Environmental Factors Bogan River weirpools at
	Nyngan' by EA Systems.
Ground water	No known effect. Possible ingress to (prior stream)
	shallow aquifer in PS4 area by sewers, or soak hole
	with high dilution & filter by sediments.
Shellfish-growing areas	Not applicable.
Flow characteristics of receiving	Bogan River - normally dry, 15 flows from 1996 to
water bodies, e.g. flow rates for	2007, 0-3 flows per year, 0 - 195 days, average one
watercourses, flooding data	per year & approx 50 days. Occasional floods (SES
	flood plan), last significant flood in 1992.
Urban bushland areas potentially	PS3 - small catchment, flat terrain, 400m to urban
affected by sewer overflows,	bushland off Dandaloo St modified by grazing.
including any rare or endangered	PS4 - 1700m to modified bushland Jubilee St but
communities or species	drainage operates only in major storms.
Archaeology or heritage	No impact.
Aquatic recreational areas, e.g.	Lower Weir Pool is used for bathing, fishing and
popular bathing areas	skiing.
Land-based recreational areas likely	Frank Smith Oval (2 ovals), 500m via urban
to be affected by overflows, e.g.	bushland from PS3. No impact. Rain stops sports.
sporting fields	Lagoon flooded 21/12/07, ovals ok, high dilution.
Other potential high public health	PS2 - 50m across road to child care centre, 100m to
risk exposure areas, e.g. child care	doctor surgery. Access chambers would overflow
centres	before PS2, if 7m deep sewers fill to ground level.
Other sources of pollution, e.g. point	Much urban stormwater lies on flat terrain to
sources, urban stormwater	evaporate or soak away. No underground drainage
	to accelerate disposal. Light service industry only.
Climatic data, particularly rainfall	Hot, dry & short localised thunderstorms. Drought
patterns	reducing rain average from 441.7 mm/year. Climate
	change forecast is less rain, more severe events.

For this small system, the limited data available is supplemented by engineering judgement. This information is used in the qualitative assessment of the public health and environmental impacts of overflows, in accordance with the following table.

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Table 6 - Assessment of public health and environmental impacts of overflows:

Level	Classification	Description
1	Insignificant	The overflow is extremely unlikely to drain to a local sensitive environment* and • where the overflow reaches waters, the volume of sewage likely to enter the waterway is insignificant with regard to the volume and flow of receiving waters, or • where the overflow reaches land, it is likely to be contained in an area with little chance of public exposure within the maximum response time**.
2	Minor	The overflow is extremely unlikely to drain to a local sensitive environment* and • where the overflow reaches waters, the volume of sewage likely to enter the waterway may be significant with regard to the volume and flow of receiving waters, or • where the overflow reaches land, it is likely to be contained in an area where public exposure is minimal given the maximum response time**.
3	Moderate	The overflow is unlikely to drain to a local sensitive environment* and • where the overflow reaches waters, the volume of sewage likely to enter the waterway is significant with regard to the volume and flow of receiving waters, or • where the overflow reaches land, it may travel to an area where public exposure is low within the maximum response time**.
4	Major	The overflow is likely to drain to a local sensitive environment* and • where the overflow reaches waters, the volume of sewage likely to enter the waterway is high with regard to the volume and flow of receiving waters, or • where the overflow reaches land, the public exposure risk is likely given the maximum response time**.
5	Catastrophic	The overflow is likely to drain to a local sensitive environment* and • where the overflow discharges to waters, the volume of sewage likely to enter the waterway is high with regard to the volume and flow of receiving waters, or • where the overflow discharges to land, the public exposure risk is high given the maximum response time**.

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* Table 7 - A 'sensitive' environment includes:

Sensitive environment category	Is it applicable?
Drinking water catchment	No - water storage is upstream of
	town
Domestic groundwater source	No – some bores in shallow aquifer
	not suitable for potable supply due
	to potential for contamination from
	many urban sources.
Shellfish-growing area	No
Protected water bodies, ecological communities or	No
conservation areas defined by legal and non-legal	
instruments, such as local environmental plans (LEPs),	
State environmental planning policies (SEPPs), national	
parks, world heritage parks, and Class P or Class S waters	
Waterways used for primary contact recreation	Yes – (PS1) surface runoff from
	town to the Lower Weir Pool
A recreational area or other area with high public	No
exposure or associated health risk	

^{**} Maximum response time is based on the length of time taken for detection of the overflow, or for the overflow to be reported, and the time taken for an operator to attend the site and secure against public contact. Operators are rostered for 24/7 availability.

Table 8 - Any other relevant information:

Information type or source	Is any information available?
Are there any water quality studies demonstrating	No – no reticulation overflows.
environmental impacts from sewer overflows?	Occasional high treated effluent
	flow to licensed discharge point.
Is there any other information identifying a link b/n sewage	No – nil occurrences
pollution and a public health or environmental impact?	

Table 9 - Assessment of the impacts of overflows:

Impact	Public health and/or environmental risk
Catchment 1	1
Catchment 2	1
Catchment 3	1
Catchment 4	1
Sewage pumping station 1	1
Sewage pumping station 2	1
Sewage pumping station 3	1
Sewage pumping station 4	2
Sewage Treatment Works	1

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Risk Analysis

The following table is used to assess the level of risk, using a matrix of the assessment of the likelihood of overflows and their potential impacts.

Table 10 - Risk assessment matrix:

	IMPACTS				
LIKELIHOOD	Insignificant (1)	Minor (2)	Moderate (3)	Major (4)	Catastrophic (5)
Almost certain (A)	Significant	Significant	High	High	High
Likely (B)	Moderate	Significant	Significant	High	High
Moderate (C)	Low	Moderate	Significant	High	High
Unlikely (D)	Low	Low	Moderate	Significant	High
Rare (E)	Low	Low	Moderate	Significant	Significant

Table 11 - Resulting levels of risk:

Component	Dry-weather risk	Wet-weather risk
Catchment 1	Low	Low
Catchment 2	Low	Low
Catchment 3	Low	Low
Catchment 4	Low	Low
Sewage pumping station 1	Low	Low
Sewage pumping station 2	Low	Low
Sewage pumping station 3	Low	Low
Sewage pumping station 4	Low	Low
Sewage Treatment Works	Low	Low

8. Management actions

There are no new priority actions required for the low level of risk of sewage overflows or need to gather more detailed data, although system management can be refined.

Structural actions - planned or underway:

- Relocate the treated sewage effluent discharge point in March 2008 from Box Cowal to storage inside the flood levee at the airport for irrigation re-use. Agreed in PRP 101 of the Environment Protection Licence. Discharge overflows to cease;
- Programmed renewal of assets as per Strategic Business Plan, establish reserve;

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Structural actions - potential (subject to cost and feasibility for the low overflow risk):

- Install flow meters in rising mains to improve measurement and reporting;
- Consider installing telemetry to support the alarms.
- Investigate purchasing suitable bypass pump(s) if there are none readily available.

New development is unlikely to need downstream system augmentation, as the STW and pumping stations have spare capacity. Developers should pay for new add-on systems.

The low overflows risk potential can be managed by non-structural management practices, including routine procedures and work practices using existing resources such as:

- Daily checks of pumping stations find a problem before it becomes an issue;
- Periodic servicing and refurbishment of pumps, triggered by increased run times;
- Immediate response to reports of alarms, sewer chokes and other failures.

There is spare system capacity to manage an emergency to avoid an overflow. In the flat terrain, the whole upstream catchment reticulation would fill over a few days before overflows occur from access chambers, even with rain. This provides time to fix the problem, but the sewage may need to be pumped out to avoid septicity and odour problems. Depending on the scope of the problem, options to consider include:

- · Short term pumping into tankers for transport to the STW or PS1;
- Temporary bypass pump from pumping station or nearby access chamber, and cut
 a tee and valve into the rising main (if not pre-placed);
- Temporary bypass pump between access chambers either side a sewer blockage;
- Emergency water restrictions.

Although unlikely to occur, if it does, an overflow plume would spread in the vicinity, potentially impacting on nearby residents. The extreme rain needed in most scenarios to generate the overflow increases dilution and in those cases plume destinations are lightly populated on the fringes of the urban area, including at levee outlets where gates add control options.

If a sewer blockage occurs high in the catchment in dry weather, an overflow can be contained in a small area with earth banks for example.

Preventative works to reduce overflow impacts are unnecessary in consideration of the low risk, large system storage capacity relative to catchment populations, quick response to alarms or reports, and routine daily checks. It would be impractical with many potential overflow sites in the flat terrain.

Other management practices that can be maintained or improved include:

- Implement a more formal asset management program, including:
 - A program for more regular cleaning of sewers with the 'Watersnorter';
 - Periodic CCTV camera inspections;

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- Repair faulty pipes when they start occurring as the system ages, unless depth makes it more feasible to save up a batch for trench less methods;
- Repair or replace access chambers, as necessary to spread budget impact;
- Improve record keeping and collation for reporting and trend analysis;
- Ongoing staff training and refresher training operations and maintenance, system
 planning, new connection inspection procedures, and multi-skilling;
- Develop a trade waste management plan and agreements (if the cost is financially justified, or by government direction);
- Investigate if there is scope for reducing infiltration test for stormwater cross connections and groundwater infiltration when there is heavy rain in a wet season;
- Continue control of new connections to the sewerage system:
 - Council supervision do not accept substandard new connections;
 - Establish clear guidelines for design, construction, inspection and testing of new systems;
 - Prohibiting stormwater connections;
 - Inspect down pipes and exterior gully traps if suspect cross connections;
 - For significant development that will expand the system and /or intensify flows, consider the potential to create overflow problems;
 - New pumping stations must discharge into the PS1 catchment, not "piggy back" onto another pumping station, to minimise odours from ageing sewage and avoid overloading smaller systems.
- Educate the public about illegal connections and not dumping chemicals, oils, solid
 wastes like nappies, etc down the sewer, to reduce volumes, minimise chokes,
 avoid damage to pipes or pumps, and minimise hazardous content if an overflow
 occurs.



APPENDIX 2 - ENVIRONMENT PROTECTION LICENCE

Section 55 Protection of the Environment Operations Act 1997

Environment Protection Licence



Licence - 3298

Licence Details	
Number:	3298
Anniversary Date:	09-June

Licensee
BOGAN SHIRE COUNCIL
PO BOX 221
NVNGAN NSW 2825

<u>Premises</u>
NYNGAN SEWAGE TREATMENT WORKS
CANONBA ROAD
NYNGAN NSW 2825

Sewage treatment	luled Activity	
	e treatment	

Fee Based Activity	<u>Scale</u>
Sewage treatment processing by small plants	> 100-219 ML annual maximum
	volume of discharge

Contact Us
NSW EPA
4 Parramatta Square
12 Darcy Street
PARRAMATTA NSW 2150
Phone: 131 555
Email: info@epa.nsw.qov.au
Locked Bag 5022
PARRAMATTA NSW 2124



Environment Protection Authority - NSW Licence version date: 21-Sep-2021

JANUARY 2022



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Licence - 3298

Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- · ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

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The EPA publication "A Guide to Licensing" contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations:
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

BOGAN SHIRE COUNCIL
PO BOX 221
NYNGAN NSW 2825

subject to the conditions which follow.

Environment Protection Authority - NSW

Licence version date:

21-Sep-2021





Hidende - 3298

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Sewage treatment	Sewage treatment processing by small plants	> 100 - 219 ML annual maximum volume of discharge

- A1.2 The objectives of this licence are to:
 - a) require practical measures to be taken to protect public health and the environment;
 - b) require proper and efficient design, construction and management of the sewage treatment system to minimise harm to public health and the environment; and
 - c) minimise the frequency and volume of overflows from the reticulation system and sewage treatment plant.
- A1.3 This licence is to be construed in a manner that will promote the objectives referred to in condition A1.2 above

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
NYNGAN SEWAGE TREATMENT WORKS
CANONBA ROAD
NYNGAN
NSW 2825
LOT 2 DP 222408
THE PREMISES IS DEFINED BY THE RED POLYGON'S SHOWN AT CONDITION A2.2 OF THIS LICENCE WHICH INCLUDES PROPERTY IDENTIFIER 1841-3030 AND THE EFFLUENT POND WITHIN LOT 2; DP 222408 AND AS FURTHER DEFINED BY THE MAPS PROVIDED TO THE EPA ON 30/06/2021 (EPA REF DOC21/544656).

A2.2 The premises location is shown on the map below.



IANUARY 2022



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- A2.3 For the purpose of conditions A2.1 and A2.2 of this licence, the premises also includes:
 - a) the reticulation system owned and operated by the licensee that is associated with the sewage treatment plant(s) identified in conditions A2.1 and A2.2 of this licence;
 - b) the effluent utilisation area known as "Laravoulta" located at Lot 38 DP 753420; and
 - c) the effluent utilisation area located at the Nyngan Airport located at Lot 2 DP 222408.
- A2.4 For the purpose of condition A2.3 above, the effluent utilisation area at the Nyngan Airport is for use during an emergency or unforseen circumstances resulting where the licensee is unable to utilise property "Larayoulta".

A3 Information supplied to the EPA

- A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.
 - In this condition the reference to "the licence application" includes a reference to:
 - a) the applications for any licences (including former pollution control approvals) which this licence replaces

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under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

A3.2 Any other document and/or management plan is not to be taken as part of the documentation in condition A3.1, other than those documents and/or management plans specifically referenced in this licence.

2 Discharges to Air and Water and Applications to Land

- P1 Location of monitoring/discharge points and areas
- P1.1 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.
- P1.2 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identi- fication no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Discharge to waters Discharge quality monitoring	Discharge to waters Discharge quality monitoring	Discharge of treated effluent to effluent storage dam marked and shown as "DP1" on map titled "Effluent Irrigation Area" provided to the EPA on 30/06/2021 (EPA Ref DOC21/544656)
2	Discharge to land	Discharge to land	Discharge of treated effluent to property marked and shown as "DP2" on map titled "Effluent Irrigation Area" provided to the EPA on 30/06/2021 (EPA Ref DOC21/544656)
3	Groundwater quality monitoring		Groundwater monitoring bore marked and shown as "EIA_MB1" on map titled "Effluent Irrigation Area" provided to the EPA on 30/08/2021 (EPA Ref DOC21/544856)
4	Groundwater quality monitoring		Groundwater monitoring bore marked and shown as "EIA_MB2" on map titled "Effluent Irrigation Area" provided to the EPA on 30/08/2021 (EPA Ref DOC21/544858)

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e - 3298		
5	Groundwater quality monitoring	Groundwater monitoring bore marked and shown as "EIA_MB3" on map titled "Effluent Irrigation Area" provided to the EPA on 30/08/2021 (EPA Ref DOC21/544656)
6	Groundwater quality monitoring	Groundwater monitoring bore marked and shown as "EIA_MB4" on map titled "Effluent Irrigation Area" provided to the EPA on 30/06/2021 (EPA Ref DOC21/544656)
7	Groundwater quality monitoring	Groundwater monitoring bore marked and shown as "EIA_MB5" on map titled "Effluent Irrigation Area" provided to the EPA on 30/06/2021 (EPA Ref DOC21/544656)
8	Soil quality monitoring	Soil monitoring point at airport irrigation area marked and shown as "EIA_Surface L1" on map titled "Effluent Irrigation Area" provided to the EPA on 30/06/2021 (EPA Ref DOC21/544656)
9	Soil quality monitoring	Soil monitoring point at airport irrigation area marked and shown as "EIA_Surface L2" on map titled "Effluent Irrigation Area" provided to the EPA on 30/08/2021 (EPA Ref DOC21/544858)
10	Soil quality monitoring	Soil monitoring point at airport irrigation area marked and shown as "EIA_Surface L3" on map titled "Effluent Irrigation Area" provided to the EPA on 30/06/2021 (EPA Ref DOC21/544656)
13	Surface water monitoring	Surface water monitoring point at airport holding pond area marked and shown as "EIA_SW1" on map titled "Effluent Irrigation Area" provided to the EPA on 30/06/2021 (EPA Ref DOC21/544656)
14	Surface water monitoring	Surface water monitoring point at airport irrigation area marked and shown as "EIA_SW2" on map titled "Effluent Irrigation Area" provided to the EPA on 30/08/2021 (EPA Ref DOC21/544858)
15	Volume monitoring	Volume monitoring point of effluent discharging to the sewerage treatment ponds

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3 Limit Conditions

L1 Pollution of waters

- L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.
- L1.2 The licensee may only discharge untreated or partially treated sewage from the sewage treatment plant and/or the reticulation system subject to the conditions of this licence, including Sections O1 and O2.

L2 Concentration limits

- L2.1 For each monitoring/discharge point or utilisation area specified in the table\s below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\s.
- L2.4 Water and/or Land Concentration Limits

POINT 1

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Biochemical oxygen demand	milligrams per litre				30
Faecal Coliforms	colony forming units per 100 millilitres				200
Nitrogen (ammonia)	milligrams per litre				5
Nitrogen (total)	milligrams per litre				15
Oil and Grease	milligrams per litre				10
pН	рН				6.5-8.5
Phosphorus (total)	milligrams per litre				10

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Total	milligrams per litre	30
suspended		
solids		

L3 Waste

L3.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
K130	Sewage products	Septic tank and related wastes from pump out and removal activities within the Bogan Local Government Area	Sewage Treatment	The licensee must not accept more than 14,000 litres of septic waste per year

L4 Potentially offensive odour

L4.1 No condition in this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997 provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.
- O1.2 The requirements of condition O1.1 above apply to the whole of the premises, including the reticulation system.

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O2 Maintenance of plant and equipment

- O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:
 - a) must be maintained in a proper and efficient condition; and
 - b) must be operated in a proper and efficient manner.
- O2.2 The requirements of condition O2.1 above apply to the whole of the premises, including the reticulation system.

O3 Effluent application to land

- O3.1 Spray from the effluent application to the utilisation area(s) must not drift beyond the boundary of the utilisation area(s) to which it has been applied.
- O3.2 Effluent application to the utilisation area(s) must not occur in a manner that causes surface run-off from the utilisation area(s).
- O3.3 Irrigation of treated effluent and wastewater must not be carried out if soil moisture conditions are such that surface runoff or ponding is likely to occur.
- O3.4 The utilisation areas must be maintained in a proper and efficient condition so as to provide adequate percolation, evaporation and transpiration of the treated effluent and wastewater.
- O3.5 The quantity of effluent applied to the utilisation area(s) must not exceed the capacity of the utilisation area(s) to effectively utilise the effluent. For the purpose of this condition, "effectively utilise" includes the ability of the soil to absorb the nutrient, salt and hydraulic loads and the applied organic material without causing harm to the environment.
- O3.6 Public access to any effluent utilisation area must be denied during effluent application and until the effluent application area has dried.
- O3.7 Livestock access to any effluent application area must be denied during effluent application and until the applied effluent area had dried.
- O3.8 Adequate notices, warning the public not to drink or otherwise use the treated effluent, must be erected on the site. These notices must be legible English and in any other languages as may be necessary, and must indicate at least that the water in use is "Reclaim Water - Unfit for Drinking".
- O3.9 Effluent liquid waste pipelines and fittings must be clearly identified. Standard watertaps, hoses and valves must not be fitted to the pipelines of the effluent system. The effluent system must not be connected to other pipelines. Lockable valves or removable handles must be used where there is public access to the effluent.

O4 Emergency response

Note: The licensee must maintain, and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises in accordance with Part 5.7A of the Protection of the Environment Operations







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Act 1997 and Part 4 of the Protection of the Environment Operations (General) Regulation 2021.

O4.1 In the event of an overflow or bypass that harms or is likely to harm the environment, the licensee must use all practicable measures to minimise the impact of the overflow or bypass on the environment and public health. These measures are to be implemented as soon as practical after the licensee or one of the licensee's employees or agents becomes aware of the overflow or bypass.

O5 Processes and management

- O5.1 The licensee must ensure that any extension to the reticulation system is planned, designed, constructed and installed to prevent as far as practicable discharges of sewage or partially treated sewage from the premises.
- O5.2 Dry weather overflows resulting in pollution of waters from any sewage pumping station(s) installed within the sewage treatment system are not permitted. Dry weather conditions means less than 10 mm of rain falling within a 24-hour period in the catchment of the premises as measured at the premises or the Nyngan Bureau of Meteorology weather station located at the Nyngan Airport.
- O5.3 The licensee must not consent to any discharge of organophosphate pesticides (including chlorpyrifos, diazinon, malathion) or organochlorine pesticides (including dieldrin, heptachlor and chlordane) into the sewage treatment system.

O6 Waste management

- O6.1 The licensee must ensure that any liquid and non-liquid waste generated and/or stored at the premises is assessed and classified in accordance with the EPA's Waste Classification Guidelines as in force from time to time.
- O6.2 Biosolids generated at the premises must be stored, treated, processed, classified, transported and disposed of in accordance with this licence or where removed from the premises, in accordance with the EPA's Biosolids Order and Exemption, as in-force from time to time or other relevant lawful instrument as applicable (such as an in-force environment protection licence permitting the receipt of the waste).

5 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
 - a) in a legible form, or in a form that can readily be reduced to a legible form;
 - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
 - c) produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

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- a) the date(s) on which the sample was taken;
- b) the time(s) at which the sample was collected;
- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

- M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:
- M2.2 Water and/ or Land Monitoring Requirements

POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
Biochemical oxygen demand	milligrams per litre	Quarterly	Grab sample
Faecal Coliforms	colony forming units per 100 millilitres	Quarterly	Grab sample
Nitrogen (ammonia)	milligrams per litre	Quarterly	Grab sample
Nitrogen (total)	milligrams per litre	Quarterly	Grab sample
Oil and Grease	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Phosphorus (total)	milligrams per litre	Quarterly	Grab sample
Total suspended solids	milligrams per litre	Quarterly	Grab sample

POINT 3,4,5,6,7

Pollutant	Units of measure	Frequency	Sampling Method
Calcium	milligrams per litre	Quarterly	Representative sample
Conductivity	millisiemens per centimetre	Quarterly	In situ
Magnesium	milligrams per litre	Quarterly	Representative sample
Nitrate	milligrams per litre	Quarterly	Representative sample
pH	pH	Quarterly	Representative sample
Potassium	milligrams per litre	Quarterly	Representative sample
Sodium	milligrams per litre	Quarterly	Representative sample
Sodium Adsorption Ratio	milligrams per litre	Quarterly	Representative sample
Standing Water Level	metres	Quarterly	In situ
Thermotolerant Coliforms	colony forming units per 100 millilitres	Quarterly	Representative sample
Total Phosphorus - filtered sample	milligrams per litre	Quarterly	Representative sample

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POINT 8,9,10

Pollutant	Units of measure	Frequency	Sampling Method
Available phosphorus	milligrams per kilogram	Special Frequency 1	Special Method 1
Cation Exchange Capacity	centimoles of positive charge per kilogram of soil	Special Frequency 1	Special Method 1
Conductivity	millisiemens per centimetre	Special Frequency 1	Special Method 1
Exchangeable aluminium	centimoles of positive charge per kilogram of soil	Special Frequency 1	Special Method 1
Exchangeable calcium	centimoles of positive charge per kilogram of soil	Special Frequency 1	Special Method 1
Exchangeable magnesium	centimoles of positive charge per kilogram of soil	Special Frequency 1	Special Method 1
Exchangeable potassium	centimoles of positive charge per kilogram of soil	Special Frequency 1	Special Method 1
Exchangeable sodium	centimoles of positive charge per kilogram of soil	Special Frequency 1	Special Method 1
Exchangeable sodium percentage	percent	Special Frequency 1	Special Method 1
Nitrogen (total)	milligrams per kilogram	Special Frequency 1	Special Method 1
Organic carbon	percent	Special Frequency 1	Special Method 1
pH	pH	Special Frequency 1	Special Method 1
Phosphorus (total)	milligrams per kilogram	Special Frequency 1	Special Method 1
Phosphorus Sorption Capacity	milligrams per kilogram	Special Frequency 1	Special Method 1

POINT 13,14

Pollutant	Units of measure	Frequency	Sampling Method
BOD	milligrams per litre	Quarterly during discharge	Grab sample
Conductivity	millisiemens per centimetre	Quarterly during discharge	Grab sample
Nitrogen (total)	milligrams per litre	Quarterly during discharge	Grab sample
pH	pH	Quarterly during discharge	Grab sample
Phosphorus (total)	milligrams per litre	Quarterly during discharge	Grab sample
Thermotolerant Coliforms	colony forming units per 100 millilitres	Quarterly during discharge	Grab sample

- M2.3 For the purpose of the table(s) above, Special Frequency 1 means: annual soil sampling when the effluent application area at the Nyngan Airport is utilised.
- M2.4 For the purpose of the table(s) above, Special Method 1 means: that representative composite soil samples are to be collected from the top soils (0-10cm) yearly and from the subsoils (>10cm) every 3 years in accordance with the Environmental Guidelines: Use of effluent by irrigation (DEC, 2004).

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M3 Testing methods - concentration limits

M3.1 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Recording of pollution complaints

- M4.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.
- M4.2 The record must include details of the following:
 - a) the date and time of the complaint;
 - b) the method by which the complaint was made;
 - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - d) the nature of the complaint;
 - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - f) if no action was taken by the licensee, the reasons why no action was taken.
- M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

- M5.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M5.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M5.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.
- M5.4 For the purpose of condition M5.1, operating hours are defined as twenty-four hours a day, seven days a week.
- M5.5 The public notification referred to in condition M5.2 must include specific reference to the fact that the complaints line may be used by the community for the reporting of overflows.

M6 Requirement to monitor volume or mass

M6.1 For each discharge point or utilisation area specified below, the licensee must monitor:

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- a) the volume of liquids discharged to water or applied to the area;
- b) the mass of solids applied to the area;
- c) the mass of pollutants emitted to the air;
- at the frequency and using the method and units of measure, specified below.

POINT 1,2

Frequency	Unit of Measure	Sampling Method
Daily during any discharge	kilolitres per day	In line instrumentation

POINT 15

Frequency	Unit of Measure	Sampling Method
Continuous	kilolitres	In line instrumentation

M6.2 In the event that the licensee cannot comply with a volume monitoring method as required by this licence solely due to the failure or malfunction of essential monitoring equipment, volume may be estimated using another agreed method approved in writing by the EPA. This provision only applies for the duration of the failure or malfunction. The licensee is to rectify the failure or malfunction as soon as practicable.

M7 Requirement to record overflow or bypass incidents

- M7.1 The licensee must record the following details in relation to each observed or reported overflow and bypass from the reticulation system or from the sewage treatment plant:
 - a) the location of the overflow or bypass (including any point through which the bypass discharged);
 - b) the date, estimated start time and estimated duration of the overflow or bypass;
 - c) the estimated volume of the overflow or bypass;
 - d) a description of the receiving environment of the overflow or bypass;
 - e) classification as to whether the overflow or bypass related to a dry or wet weather incident;
 - f) the probable cause of the overflow or bypass;
 - g) any actions taken to stop the overflow or bypass happening;
 - h) any actions taken to clean up the overflow or bypass; and
 - i) any actions taken to prevent the overflow or bypass happening again.

M8 Other monitoring and recording conditions

- M8.1 If biosolids are removed from the premises, the licensee must record the:
 - a) date:
 - b) estimated weight of biosolids;
 - c) identity of the person removing biosolids.

M9 Noise monitoring

M9.1 The licensee, following the receipt of a noise related complaint and if required by the EPA, must undertake noise monitoring as required in writing by the EPA.

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6 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
 - 1. a Statement of Compliance,
 - 2. a Monitoring and Complaints Summary,
 - 3. a Statement of Compliance Licence Conditions,
 - 4. a Statement of Compliance Load based Fee,
 - 5. a Statement of Compliance Requirement to Prepare Pollution Incident Response Management Plan,
 - 6. a Statement of Compliance Requirement to Publish Pollution Monitoring Data; and
 - a Statement of Compliance Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee notification that the Annual Return is due.

- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.
- R1.3 Where this licence is transferred from the licensee to a new licensee:
 - a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
 - b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.
- Note: An application to transfer a licence must be made in the approved form for this purpose.
- R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
 - a) in relation to the surrender of a licence the date when notice in writing of approval of the surrender is given; or
 - b) in relation to the revocation of the licence the date from which notice revoking the licence operates.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect EPA or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').
- R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.
- R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
 - a) the licence holder; or

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b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

R2 Notification of environmental harm

- Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.
- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.
- R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which they became aware of the incident.

R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
 - a) where this licence applies to premises, an event has occurred at the premises; or
 - b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,
 - and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
 - a) the cause, time and duration of the event;
 - b) the type, volume and concentration of every pollutant discharged as a result of the event;
 - c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
 - d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
 - e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
 - f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
 - g) any other relevant matters.
- R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

R4 Annual system performance report

R4.1 The licensee must supply to the EPA an Annual System Performance Report not later than 60 days after the

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end of each reporting period.

- R4.2 The report is to supplement the Annual Return and must include but need not be limited to:
 - a) the 50 percentile, 90 percentile, 100 percentile and 3DGM values calculated from the monitoring data required by this licence for the reporting period for each pollutant which has corresponding concentration limits specified in this licence;
 - b) an analysis and interpretation of monitoring results and actions to correct identified adverse trends;
 - c) the total amounts of biosolids, as classified in the Biosolids Guideline, disposed of on-site, off-site and to landfill during the reporting period;
 - d) a diagram showing the major process elements, discharge points and monitoring points at the premises' sewage treatment plant(s), where there has been any significant change since the previous reporting period or this information has not been provided previously to the EPA;
 - e) the number of dry and wet weather bypasses recorded over the reporting period (recorded in accordance with condition M7);
 - f) a breakdown of the total number of complaints received by the licensee during the reporting period in relation to the premises into categories of "odours – sewage treatment plant", "odours – reticulation system", "water pollution – sewage treatment plant", "water pollution – reticulation system" and any other category indicated by the complaints;
 - g) a summary of observed, reported or recorded wet weather overflows and observed, reported or recorded dry weather overflows and sewage treatment plant bypasses. These data are to be for the current reporting period and for the four previous twelve-month periods, for which data has been collected. Any significant actions taken to address bypasses or overflows are to be noted;
 - h) the amount of rainfall measured at a rain gauge at the STP, or at the rain gauge closest to the centre of the catchment of the sewage treatment system, for each month of the reporting period; and
 - i) a brief progress report on the implementation over the reporting period of actions specified in PRP100.

7 General Conditions

- G1 Copy of licence kept at the premises or plant
- G1.1 A copy of this licence must be kept at the premises to which the licence applies.
- G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.
- G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

G2 Contact number for incidents and responsible employees

- G2.1 The licensee must operate 24-hour telephone contact lines for the purpose of enabling the EPA to directly contact one or more representatives of the licensee who can:
 - a) respond at all times to incidents relating to the premises; and
 - b) contact the licensee's senior employees or agents authorised at all times to:
 - i) speak on behalf of the licensee; and
 - ii) provide any information or document required under this licence.
- G2.2 The licensee is to inform the EPA in writing of the appointment of any subsequent contact persons, or

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changes to the person's contact details as soon as practicable and in any event within fourteen days of the appointment or change.

G3 Signage

G3.1 The location of EPA point number(s) 1 to 7 and 13 to 15 must be clearly marked by signs that indicate the point identification number used in this licence and be located as close as practical to the point.

8 Pollution Studies and Reduction Programs

U1 Review the sustainability of the effluent reuse irrigation areas

- U1.1 The licensee must engage a suitably experienced person to undertake and report on a review all effluent, groundwater and soil monitoring results from EPA identification points 1 to 13 since the utilisation of the effluent application areas commenced and evaluate the sustainability and any environmental impact of the effluent application at "Laravoulta" and the Nyngan Airport. The report must include, but need not be limited to, the following:
 - a) trend analysis and interpretation of effluent, groundwater and soil monitoring data;
 - b) comparison of the trend analysis and interpretation results against the groundwater control data to determine any adverse trends or environmental impacts to groundwater;
 - c) comparison of the trend analysis and interpretation results against the soil control data to determine any
 adverse trends or environmental impacts to soil and an evaluation of the capacity of the soil within the
 utilisation areas to effectively utilise the effluent;
 - d) comparison and evaluation of existing operational and management controls, including existing plans and/or contracts with landholders, against the requirements of Section 5 of the *Environmental Guidelines*: Use of effluent by irrigation (DEC, 2004); and
 - e) list of any recommendations, including proposed timeframes, to address any adverse findings or areas for improvements.
- U1.2 The licensee must submit the report required by Condition U1.1 to the EPA by 5pm on 31 December 2021 by email to central.west.@epa.nsw.gov.au.

9 Special Conditions

E1 Decommission and rehabiltiate old sewage treatment plant

- E1.1 The licensee must prepare a plan that investigates options to demolish/deconstruct, dispose and rehabilitate the old sewage treatment plant at the premises. The plan must include, but need not be limited, the following: a) description of any demolition or deconstruction activities or similar that are required to be undertaken regarding the old sewage treatment plant;
 - b) waste classification of all the components of the old sewage treatment plant in accordance with the Waste Classification Guidelines - Part 1: Classifying waste (EPA, 2014);
 - c) identification of the disposal facility that can lawfully accept the classified waste materials;
 - d) proposed removal and disposal works, including implementation timeframes; and
 - e) proposed rehabilitation of the premises post removal works, including implementation timeframes.

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E1.2 The licensee must submit the report required by Condition E1.1 to the EPA by 5pm on 31 December 2021 by email to central.west.@epa.nsw.gov.au.

E2 Special Dictionary

E2.1

Term	Definition
ug/L	Means micrograms per litre.
access chamber	a structure constructed to provide physical access to sewer pipes. Also known as a manhole.
approved	Means approved in writing by the EPA. The EPA's approval may be given unconditionally, or subject to conditions.
Biosolids	Has the same meaning as in Schedule 1, Part 3 of the Protection of the Environment Operations Act 1997.
Biosolids Guidelines	Means the "Environmental Guidelines: Use and disposal of biosolids products" published by the EPA in October 1997, or any subsequently updated guidelines which replace this publication.
bypass	Means circumstances where sewage has been received at the sewage treatment plant but is discharged from the plant without it being treated, processed or reprocessed by means of any or all of the designed treatment processes of the plant. A new bypass event is defined as a bypass that commences at least 24 hours after the end of the previous bypass.
cfu	Means colony forming units
∞ndition	Means a condition of this licence.
designed overflow structure	Means a designed structure (excluding access chambers) in the reticulation system which operates as a relief to allow sewage to discharge at a planned location or a sewage pumping station, but does not include a bypass from a sewage treatment plant.
designed overflow	Means an overflow from a designed overflow structure.
dry weather bypass	Means a bypass that occurs when the flow rate of sewage at the inflow point of the STP does not exceed the flow rate specified in the conditions of this licence.
dry weather overflow	Means an overflow that is not a wet weather overflow.
dry weather sewage treatment plant discharge	Means a discharge of sewage or effluent from the STP that occurs when the flow rate of sewage at the inflow point of the STP does not exceed the flow rate specified in the conditions of this licence.
effluent	Means sewage that has received all of the designed treatment processes at the sewage treatment plant.
fc	Means faecal coliforms expressed in colony forming units per 100mL.
Group C waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997.
ISO	Means International Standards Organisation.
	Means kilolitre.

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Means the following metals: arsenic, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver and zinc. ML Means megalitres. ML Means megalitres. ML Means megalitres. offensive odour Has the same meaning as in the Protection of the Environment Operations Act 1997. overflow Is a discharge of untreated or partially treated sewage from the sewage treatment system. reticulation system Means that part of the sewage treatment system owned and operated by the licensee which collects and transports sewage to the sewage treatment plant and includes all sewer pipes (whether greater or less than 300mm diameter), sewer rising mains, access chambers, vent shafts, designed overflow structures, sewage ejection units and sewage pumping stations, but does not include the sewage treatment plant. sewage Means untreated liquid waste received in the reticulation system. sewage ejection unit Is a pump intended to control the transport of sewage from premises normally occupied by no more than 10 persons, or of an average daily flow of sewage not exceeding 2,000 litres through the sewer pipes, where steep hills and other variations in the land topography can prevent or limit the gravity flow of sewage to the sewage treatment plant. sewage products Means any by-product of the treatment processes and includes biosolids, raw sludge, liquid sludge, thickened sludge, digested sludge, screenings and grit. sewage pumping Is a structure which controls the transport of sewage through the sewer pipes, where steep hills and other variations in the land topography can prevent or limit the gravity flow of sewage to the sewage treatment plant. sewage treatment Is a facility at which sewage is stored and treated following delivery from the reticulation system prior to discharge, and includes discharge structures and STP bypass points. Means the reticulation system and the sewage treatment plant used for the transport, treatment and discharge of effluent and sewage.	- 3290	
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agreements customers to restrict the amount of toxic and other potentially narmful substances discharged to the reticulation system.	Trade waste agreements	customers to restrict the amount of toxic and other potentially harmful substances
TRC Means total residual chlorine.	TRC	Means total residual chlorine.
waters Has the same meaning as in the Protection of the Environment Operations Act 1997.	waters	Has the same meaning as in the Protection of the Environment Operations Act 1997.
wet weather bypass Means a bypass that occurs when the flow rate of sewage at the inflow point of the STP equals or exceeds the rate specified in the conditions of this licence.	wet weather bypass	
wet weather overflow A wet weather overflow is an overflow where the probable cause is rainfall.	wet weather overflow	A wet weather overflow is an overflow where the probable cause is rainfall.





Licence - 3298

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales.
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the Approved Methods for the Sampling and Analysis of Air Poliutants in New South Wales.
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997





Licence - 3298

grab sample Means a single sample taken at a point at a single time hazardous wasts Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997 licensee Means the licence holder described at the front of this licence load activitation protocol Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009 protocol Has the same meaning as in the Protection of the Environment Operations Act 1997 material harm Has the same meaning as in the Protection of the Environment Operations Act 1997 MBAS Means methylene blue active substances Minister Means the Minister administering the Protection of the Environment Operations Act 1997 mobile plant Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997 motor vehicle Has the same meaning as in the Protection of the Environment Operations Act 1997 motor vehicle Descentite [in relation to a concentration limit or a sample] plant Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 or time is the Reporting Period unless otherwise stated in this licence. Means the premises described in condition A2.1 Has the same meaning as in the Protection of the Environment Operations Act 1997 regional office Means the premises described in condition A2.1 Has the same meaning as in the Protection of the Environment Operations Act 1997 regional office reporting period Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence reporting period Has the same meaning as in the Protection of the Environment Operations Act 1997 regional office For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997 the date of issue of the licence is the first anniversary of the date of issue or last	flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.	
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percentile [in relation to a concentration limit of a sample] plant	motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997	
relation to a concentration limit of a sample] plant	O&G	Means oil and grease	
pollution of waters [or water pollution] premises Means the premises described in condition A2.1 Has the same meaning as in the Protection of the Environment Operations Act 1997 regional office Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence reporting period For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act. Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997 special waste Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997 Together with a number, means a test method of that number prescribed by the Approved Methods for the	relation to a concentration limit	specified in the licence for that pollutant over a specified period of time. In this licence, the specified period	
premises Means the premises described in condition A2.1 public authority Has the same meaning as in the Protection of the Environment Operations Act 1997 regional office Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence reporting period For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act. restricted solid waste Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997 special waste Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997 Together with a number, means a test method of that number prescribed by the Approved Methods for the	plant		
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reporting period For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act. restricted solid that the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997 scheduled activity Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997 Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997 Together with a number, means a test method of that number prescribed by the Approved Methods for the	public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997	
licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act. restricted solid waste Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997 scheduled activity Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997 special waste Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997 Together with a number, means a test method of that number prescribed by the Approved Methods for the	regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence	
scheduled activity Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997 special waste Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997 TM Together with a number, means a test method of that number prescribed by the Approved Methods for the	reporting period	licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary	
special waste Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997 Together with a number, means a test method of that number prescribed by the Approved Methods for the			
TM Together with a number, means a test method of that number prescribed by the Approved Methods for the	scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997	
	special waste		
	тм		







Licence - 3298

TSP

Means total suspended particles

Means total suspended solids

Type 1 substance

Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements

Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements

utilisation area

Means any area shown as a utilisation area on a map submitted with the application for this licence

waste

Has the same meaning as in the Protection of the Environment Operations Act 1997

waste type

Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non-putrescible), special waste or hazardous waste

Mr Terry Knowles

Environment Protection Authority

(By Delegation)

Date of this edition: 19-October-2000

Environment Protection Authority - NSW Licence version date: 21-Sep-2021



JANUARY 2022



Henre - 3208

End	Notes	

- 1 Licence varied by notice 1012794, issued on 11-Oct-2002, which came into effect on 05-Nov-2002.
- 2 Licence varied by notice 1029502, issued on 02-Oct-2003, which came into effect on 27-Oct-2003.
- 3 EPA Condition ID S40934 amended 13-08-04
- 4 Licence varied by notice 1060383, issued on 24-May-2008, which came into effect on 24-May-2006.
- 5 Licence varied by notice 1085868, issued on 03-Nov-2008, which came into effect on 03-Nov-2006.
- 6 Licence varied by notice 1072745, issued on 23-Oct-2007, which came into effect on 23-Oct-2007.
- 7 Licence varied by notice 1081922, issued on 28-Mar-2008, which came into effect on 28-Mar-2008.
- 8 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 9 Licence varied by notice 1097459, issued on 16-Aug-2010, which came into effect on 16-Aug-2010.
- 10 Licence varied by correction to DECCW Region data record, issued on 28-Jan-2011, which came into effect on 28-Jan-2011.
- 11 Licence varied by notice 1500385 issued on 12-Sep-2012
- 12 Licence varied by notice 1531565 issued on 08-Jul-2015
- 13 Licence varied by notice 1591365 issued on 21-Sep-2021

