Clarence Valley Council Locked Bag 23 GRAFTON, NSW 2460

Clarence Valley Council



Pollution Incident Response Management Plan

North Grafton Sewage System (STP and Reticulation)

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1. Introduction

This plan has been developed to document the processes required to prepare for and respond to pollution incidents for the North Grafton Sewage Treatment Plant (STP) and associated reticulation (EPA Licence No. 717) and ensure that hazards to the environment, human health and safety are minimized, if not eliminated. It has been prepared in accordance with the requirements of the Protection of the Environment Operations Act 1997 and Protection of the Environment Operations (General) Regulation 2009. Prior to this PIRMP, Council followed the actions listed in the Environmental Management Plan (EMP) for the Sewerage Systems. The EMP reporting and incident procedures have now been superseded by this PIRMP. This PIRMP also includes valuable information formerly contained in the EMP which can be used as a reference, including detail on pump station generator requirements and the location of controlled/uncontrolled surcharge points.

1.1 Scope

This Pollution Incident Response Management Plan applies to North Grafton Sewage System (STP and Reticulation - EPA Licence No. 717). For site plan and sewerage schematic, refer to Section 6.1 Appendix 1 - Site Plan and Reticulation Schematic.

2. Pollution Incident Response Management Plan

Grafton is serviced by 83km of sewer mains and 19 pump stations and Junction Hill is serviced by 22km of sewer mains and 9 pump stations transferring sewage to the North Grafton STP. The North Grafton STP treats approximately 3000kL of sewage daily in dry weather, potentially reaching 6 times this flow during heavy rain periods. During sewage treatment, chemicals and by-products are produced which, if they are spilt or incorrectly managed, may contaminate the environment or threaten human health. A register of the chemicals is contained in Section 6 Appendix 3 – Site Chemical Register

2.1 Potential Incidents

The potential hazards to the environment include:

- Sewage overflow (raw or partially treated) potentially caused by:
 - Storms (lightning/heavy rainfall/wind) causing power failure or infrastructure damage
 - Reticulation blockages
 - Damage to reticulation (contractors or other damage during excavations, etc.)
 - Infrastructure failure due to age
 - SCADA/Communications failure
 - Excessive flows
 - Mechanical break down
 - Power outage
 - Treatment plant blockage
- Chemical spill potentially caused by:
 - Tank/storage failure
 - Delivery incident
 - Damage to chemical reticulation
 - Vandalism
 - Inappropriate chemical use
 - Bund failure

A detailed assessment of risks is provided in Section 6.5 Appendix 5 - Risk assessments and actions. For detail on actions to reduce risks see Section 2.5 Pre-emptive Measures.

2.2 Incident Response

This section details the response requirements in the event of an incident. See also pollution incident form provided in Appendix 9. In all situations:

The business hours emergency number for CVC is (02) 6643 0200 The after hours emergency number for CVC is (02) 6626 6858

During working hours, these calls are taken by staff on the CVC Switch. If the call is after hours, the call is redirected to a call centre in Lismore, who informs appropriate personnel of issues and incidents. CVC operates a rostered on-call system, ensuring that an experienced operator is on-call at all times. The call centre will contact the on-call operator. The on-call the operator may also receive alarms from pump stations or the STP via the telemetry system. The telemetry system utilises the SMS mobile phone network to advise of critical alarms. The on-call operator also has access to other qualified staff to assist in an after hours repair or emergency. SOP's are in place to cover an after hours emergency.

2.2.1 Human health or Safety Incident

If there is **serious** immediate threat to Human health or Safety, call triple zero "**000**" ("**112**" if using a mobile) and implement the following process:

- 1. Undertake reporting in accordance with the procedures listed in the CVC WHS Hazard / Incident Reporting Guidelines
- 2. If required, evacuate the site
- 3. Contact Water & Sewer Engineer and/or Manager Water Cycle (Refer contact list Appendix 6)
- 4. Report the incident to Council's WHS Unit on 6643 0822, 6643 0820 or 0427 288 483.

2.2.2 Pollution incident

Water Cycle have developed a Standard Operating Procedure No. 11 for responding to major pollution incidents, which is available on Water Cycle's K Drive at <u>B:\Water Cycle\SEWERE\PIRMPs\ 011 Major</u> <u>Pollution Incidents Form.doc</u> Major Pollution Incidents Form.doc and is included at Appendix 9.

2.3 Community notification

Impacts on the community due to sewage distribution and treatment incidents are variable and depend on location, volumes of spills or other factors. Communication methods will be used on a case by case basis and in all situations Clarence Valley Council will attempt to provide early warning to directly affected premises (either upstream or downstream depending on tidal impacts where relevant) by phone call or site visit. Early warning is to include details of what the incident is, how those affected can prepare and respond, and provide important advice such as avoiding contact and use of affected waterways.

Where early warning is not possible Clarence Valley Council will provide notification and communication during and after an incident to advise those affected with information, advice and updates. Notification and communication methods will be determined on a case by case basis and the following methods may be used:

- Phone calls
- Media releases (radio/television/newspaper/internet/social media as required only CVC staff with appropriate delegations are permitted to speak to the media)
- Site visits/door knocking
- Letter drops
- Warning signs (e.g. 'Potential Sewer Contamination Do Not Enter Water')
- Other methods as the situation requires

In the event of a chemical or sewage spill into stormwater or waterway, Clarence Valley Council staff are to go to prominent and/or high use areas of the affected waterway and erect signage. The signs are to warn water users of the contamination and advise them to avoid activities such as swimming, fishing, shell fish collection and boating until contamination has cleared. Additionally, if the event occurred or was occurring during dry weather, Clarence Valley Council staff are to attend popular sites and advise users directly.

Contaminated land is to be disinfected, ponded sewage pumped out and faecal coliforms are to be monitored until background levels are reached.

Regular communication and notification is to be provided until the incident and clean up of impacted site and affected areas has been complete (e.g. faecal coliforms have returned to background levels). Clarence Valley Council is to take signs down and advise the public that regular activities can be resumed by (as required):

- Phone calls
- Media releases (radio/television/newspaper/internet/social media as required)
- Letter drops
- Other methods as the situation requires

2.3.1 Incidents at the Sewage Treatment Plant

The nearest neighbours from the North Grafton STP are the Grafton Transfer Station and MI Organics, located immediately adjacent. The nearest dwelling is approximately 200m to the North. There is nothing onsite that would create an emergency for any neighbours. However, if an incident did occur and any community members or neighbours were affected then the processes listed in Section 2.3 Community notification above would be implemented as required.

2.4 Incident Investigation

All emergencies must be investigated. For all other incidents, the manager (with guidance from review personnel) will decide whether an incident investigation will be conducted. When an incident investigation is required, the relevant manager is responsible for:

- Forming the investigation team
- Co-ordinating the investigation

Note: Council's WHS Unit has incident procedures and documentation which should be used when conducting the investigation.

A de-brief is to be conducted for all emergency incidents. However, the responsible manager may also initiate de-briefs for other incidents where they feel it is appropriate.

2.5 Pre-emptive Measures

2.5.1 Physical and preventative measures

First priority for pre-emptive measures is to eliminate substances that can become potential pollutants. If this is not possible, physical barriers should be installed to prevent pollutants from entering the environment such as bunding and spill drainage containment. At North Grafton STP, all chemical storages are bunded to ensure that if the storage fails the pollutant is contained and treatment process bypasses are installed to prevent partially treated sewage spills due to reticulation issues. Additionally, the reticulation and pump stations have multiple alarm systems to alert operators of conditions that may result in incidents, which include:

- High level alarms
- Communication failure
- Chemical bund alarms
- Motor issue alarm
- No flow/high flow alarms

In the event that these systems fail, Clarence Valley Council has portable bypass pumps and other containment options available.

Power failures can occur at any time and can be planned or unplanned interruptions, when a SPS experiences a power failure the telemetry system will activate an alarm via the SMS network to alert the on-call/duty personnel. The majority of the SPSs in the Grafton area also have generator inlets installed. Where generator inlets are not installed, Council's electrician can hard-wire a generator if required. Council has an on-going program to continue to install generator inlets at all SPSs. Council has a 500KVA trailer mounted generated located at Shannon Creek, a 125KVA trailer mounted and a 40KVA located in the Lower River area and a 20 KVA and a 100 KVA generator located in the Grafton area. The 100 KVA generator is capable of running all of the Grafton SPS's.

Appendix 7 - Power Failures Generator Priorities identifies the ranking order of generator supply required in the event of a total power failure. The ranking (Table 2) is based on retention times in the SPS and their upstream catchments. Rankings will stay the same for both ADWF and wet weather conditions, however response times will need to decrease in wet weather events.

Any manhole can overflow/surcharge due to a sewer choke at any time, this may cause a minor or major overflow/surcharge into the stormwater system. The Sewer reticulation systems also have controlled overflow/surcharge points, where surcharging sewage is directed in a controlled manner to a less harmful situation. These are used to avoid surcharges on private property or sensitive locations. Controlled overflow/surcharge points may consist of any combination of reflux valves, weirs, manholes, flaps valves, gas-check manholes and diversion pipes. Controlled overflow/ surcharge points exist both at SPS's where sewers may surcharge because of failure or lack of capacity of the pumping station, and within the reticulation system where sewers may surcharge due to a blockage in the downstream pipes or lack of capacity especially in wet weather events.

Appendix 8 – North Grafton Controlled Overflow/Surcharge Points identifies Controlled Overflow/ Surcharge Points

2.5.2 Preventative inspection, monitoring and maintenance

Clarence Valley Council uses monitoring and preventative maintenance to reduce the potential for incidents at both the STP and for the reticulation and pump stations. Many specific actions occur in regular cycle, from daily checks (e.g. chemical quantities, check pump stations via telemetry, vandalism, bunds), monthly checks (e.g. valve exercising, inspection of controlled overflow/surcharge points), and annual checks (e.g. RPZ testing, service pumps, electrical inspections of pump controls). More detail on regular operational/maintenance activities is provided below:

Activity	Frequency
Sewage Treatment Plant	
Operate the STP as per operation and maintenance procedures	Daily
Pumping Stations	
Check pump station operations via telemetry system	Daily
Visual check of pumping operations	Fortnightly
Clean pump stations	As required
Service pumps	Annually (minimum)
Electrical inspections of pump controls	Bi-Annually

Pump refurbishments	Determined by service reports
Pump replacements/upgrades	Determined by service reports
Reticulation	
Inspection of controlled overflow/surcharge points	Every 2 Months
CCTV inspections of mains	As per program
Mains rehabilitations	As per program
Location of manholes and boundary shafts	On-going program

2.5.3 Pre-emptive documentation

Reticulation blockages, breaks or distribution issues can result in spills if not acted upon. Therefore, the following CVC SWMS and SWP are to be used to address issues before overflows occur:

- SWP 071 Jetting Sewer Mains
- SWMS 226 Sewer Main Repair

2.5.4 Action plans to minimise harm

To address the risk of sewage overflows, Clarence Valley Council has a number of management actions comprising of one or more of the following:

- Further detailed Investigations of very high and extreme risks
- Augmentation of Sewerage Assets to Increase Capacity
- Planned Maintenance of Existing Assets
- Planned Renewal of Existing Assets
- Telemetry Monitoring of Sewage Pumping Stations
- Continuous Improvement of Sewerage System Operations
- Emergency Response Procedure to Power Failures

2.6 Training & Exercises

All staff required to implement this plan and associated documents must have training in its use and be inducted into it. This is to ensure they are aware of the content, processes and requirements of this plan and can competently implement it if necessary. In the event of a significant incident, an investigation and debrief will be conducted, documentation updated (if required) and staff will be re-inducted.

All incidents are to be registered into Council's ECM and training records will be sent to People and Culture section for filing.

Training will be undertaken annually at the same time as the plan is exercised.

3. Responsibility

Manager Water Cycle is responsible for the implementation of this Plan.

4. References

- EPA NSW Environmental Guidelines: Preparation of pollution incident response plans
- Local Government Act 1993
- Protection of the Environment Operations Act 1997
- Protection of the Environment Operations (General) Regulation 2009
- Public Health Act 2010

5. Glossary

Pollution incident: means an incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as a result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed of on premises, but it does not include an incident or set of circumstances involving only the emission of any noise (see the POEO Act 1997).

Harm to the environment: 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 (or such other amount as is prescribed by the regulations), and

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.

Appendices

6.

- Appendix 1 Site Plans and Schematic
- Appendix 2 Wastewater Storage Volumes
- Appendix 3 Site Chemical Register
- Appendix 4 Personal Protective Equipment
- Appendix 5 Risk assessments and actions
- Appendix 6 Additional Emergency Contacts
- Appendix 7 Power Failure Generator Priorities
- Appendix 8 Controlled Overflow /Surcharge Points
- Appendix 9 Major Pollution Incident Form

6.1 Appendix 1 - Site Plan and Reticulation Schematic

North Grafton STP Site Plan



Pump Station	Pump Station
Name	Location
1AN	Market Square
1BN	Queen Street
1CN	Villiers Street
2N	Prince/Arthur
2AN	Challinor St
3AN	Pioneer Park
3BN	Turf/Fry
3CN	Dobie St
3DN	Turf/Oliver
4N	Kent St
4AN	Kent/Oliver St
5N	Banksia St
5AN	Northway Est.
5BN	274 North St
7N	Brougham St
7AN	306 North St
8N	Pressure Sewer (Future)
9N	Poplar Drive
JH1	Summerland Way
JH2	Trenayr Road
JH3	Back Lane
JH3B	Cronins estate
JH3C	Barnier Park
JH4	Costellos Estate
JH4A	Lake Edgecomb Estate
JH5	Angus Drive
JH6	River Top
EFF	North St STP Ponds

Title

North Grafton and Junction Hill **Sewer Schematic**



6.2 Appendix 2 – Wastewater Storage Volumes

Item	Storage (kL)
Inlet Works	20
Sed. Tanks x 4	4 x 90ea
Sludge Digesters x 4	4 x 200ea
Humus Tanks x 4	4 x 90ea
Sludge Lagoon	2,500
Catchpond	8,000
Storm Bypass Pond	50,000

6.3 Appendix 3 - Site Chemical Register

Date of register: June 2020

Chamical Nama	Maximum Volumo	Location Whore
Chemical Name	of Chemicals Stored	Chemical is Stored
		Bunded Area near
Sodium Hypochlorite – not	2000 L	U.V Shed at ponds
in use as of Feb 2021		
		Outflow weir rear
		of STP. Elevated
Sodium Hypochlorite	500 L	bund.
Hydrated Lime	1 tonne	Shed
		Shed (in gerry
Unleaded petrol	20 L	cans)
		Shed (in gerry
Diesel	20 L	cans)
Glyphosate	20 L	Shed
Dheanharia Aaid	201	
Phosphoric Acid	20L	UV shed
		Dewatering
Polymer	3000L	hardstand

6.4 Appendix 4 - Personal Protective Equipment List

This section list the standard PPE items required.

Sewage Treatment Plant

The following items are to be kept at either the North Grafton STP, worn as PPE, or available in vehicles:

- Ear/hearing protection
- Life jackets
- Sun screen
- Apron/disposal overalls
- Rubber Gloves
- Goggles
- Gumboots
- Steel capped Boots

Sewerage reticulation response truck

The following items are to be kept on the sewerage reticulation response truck:

- Asbestos kit
- Goggles/eye protection
- Hearing protection
- Apron/disposable overalls
- Rubber gloves
- Gumboots

Rushforth Depot

- Gas monitor
- Gas monitor calibration equipment

6.5 Appendix 5 - Risk assessments and actions

No	Risk	Impact	Risk LxC = Bating	Controls
	North Grafton and Junction Hill Retic			
1	Sewage overflow due to inflow/infiltration	Land contamination, possibly enter a waterway	C2 = M	 Reticulation maintenance and rehabilitation to reduce infiltration and inflows Spare capacity in pump wells Monitoring and maintenance Pre-emptive measures see Section 2.5 Pre-emptive Measures
2	Sewage overflow due to power failure	Land contamination, possibly enter a waterway	B2 = L	 Lightning protection Back up generators, priorities provided in Appendix 7 Pre-emptive measures see Section 2.5 Pre-emptive Measures
3	Sewage overflow due to storm damaging infrastructure	Land contamination, possibly enter a waterway	B2 = L	 Lightning protection Site vegetation management to prevent damage to infrastructure Portable pumps Pre-emptive measures see Section 2.5 Pre-emptive Measures
4	Sewage overflow due to Reticulation blockages or damage	Land contamination, possibly enter a waterway	C2 = M	 Reticulation maintenance Sewer Jetting program (high pressure cleaning of mains for repeat chokes) Spare capacity in pump wells Monitoring and maintenance Pre-emptive measures see Section 2.5 Pre-emptive Measures
5	Sewage overflow due to an external persons excavation hitting the sewers	Land contamination, possibly enter a waterway	C2 = M	 Provide underground service locations to external persons Telemetry designed to pick up a change in inflows Vacuum trucks (for clean up) Portable pumps (for clean up)
6	Sewage overflow due to SCADA/Communications failure	Land contamination, possibly enter a waterway	A2 = L	 SCADA testing and alarming Monitoring of SCADA signal issues Pre-emptive measures see Section 2.5 Pre-emptive Measures
7	Sewage overflow due to Infrastructure failure (e.g. due to age)	Land contamination, possibly enter a waterway	B2 = L	 Reasonably Young network Maintenance and renewal programs Pre-emptive measures see Section 2.5 Pre-emptive Measures

Title

No	Risk	Impact	Risk LxC = Rating	Controls
8	Sewage overflow due to Mechanical break down/dual pump failure	Land contamination, possibly enter a waterway	B2 = L	 Telemetry monitoring Maintenance and inspection programs Spare capacity in pump wells Portable pump to bypass site and vacuum truck to maintain flows Monitoring and maintenance Pre-emptive measures see Section 2.5 Pre-emptive Measures

	North Grafton Sewage Treatment Plant			
1	Sewage overflow (raw) due to heavy rainfall	Land contamination, possibly enter a waterway	A1 = L	 Reticulation maintenance to reduce infiltration and inflows Spare capacity in pump wells Overflow storage at the WRP Bypass systems to overflow storage pond Monitoring and maintenance Pre-emptive measures see Section 2.5 Pre-emptive Measures
2	Sewage overflow (raw) due to Reticulation blockages	Land contamination, possibly enter a waterway	A2 = L	 Reticulation maintenance Spare capacity in pump wells Overflow storage at the WRP Bypass systems to overflow storage pond Monitoring and maintenance Pre-emptive measures see Section 2.5 Pre-emptive Measures
3	Sewage overflow (raw) due to damage to onsite reticulation (e.g. during excavations, etc.)	e Land contamination, possibly enter a waterway	B2 = L	 Locate services prior to excavations Appropriate supervision of contractors Bypass systems
4	Sewage overflow (raw) due to SCADA/Communications failure	Land contamination, possibly enter a waterway	B2 = L	 SCADA testing and alarming Pre-emptive measures see Section 2.5 Pre-emptive Measures
5	Sewage overflow (raw) due to Infrastructure failure (e.g. due to age)	Land contamination, possibly enter a waterway	B2 = L	 Maintenance and renewal programs Pre-emptive measures see Section 2.5 Pre-emptive Measures
6	Sewage overflow (raw) due to excessive flows	Land contamination, possibly enter a waterway	A2 = L	 Reticulation maintenance to reduce infiltration and inflows Spare capacity in pump wells Overflow storage at the WRP Bypass systems to overflow storage pond Monitoring and maintenance Pre-emptive measures see Section 2.5 Pre-emptive Measures

Title

No	Risk	Impact	Risk LxC = Rating	Controls
7	Sewage overflow (raw) due to Treatment plant blockage	Land contamination, possibly enter a waterway	A2 = L	Bypass systemsGross solid screening
8	Chemical spill due to Tank/storage failure	Land contamination, possibly enter a waterway	B2 = M	 Bunding Alarms Inspection and maintenance of tanks
9	Chemical spill During delivery	Land contamination, possibly enter a waterway	B2 = M	SWMSPPE
10	Chemical spill due to Damage to chemical reticulation	Land contamination, possibly enter a waterway	A3 = M	 Locate services prior to excavations Appropriate supervision of contractors Bypass systems Shut off valves for chemicals
11	Chemical spill due to Vandalism	Land contamination, possibly enter a waterway	A3 = M	Site security fences
12	Chemical spill due to Bund failure	Land contamination, possibly enter a waterway	B3 = M	 Bund inspections Annual bunding tests Maintenance and renewal
13	Chemical truck incident outside of bunded area	Land contamination, possibly enter a waterway	B3 = M	 Only use transport companies with evidence of driver licensing and training Operator onsite during deliveries (or at minimum direct contact with deliver in exceptional circumstances)

Likelihood		Consequences	Rating			Li	eliho	od	
	A IMPROBABLE - May occur only in	3ABLE - May occur only in 1. INSIGNIFICANT - No injuries, minimal level of pollution, Employee grievances dealt with on site, Loss <5% of job cost, service,						ou	
	exceptional circumstances	business failure resulting in delay < 1 week and costs, plant/equipment loss < \$1,000		Consequence	Δ	в	C	D	F
	B REMOTE - Could occur at some	2. MINOR - First aid treatment, limited/localised impact, Employee grievances dealt with by senior management, loss 5-10% of	M = Medium	consequence	~		Ŭ	-	
	time	job cost, business failure resulting in delay < 1 month and costs, plant/equipment loss < \$10,000	H = High	1	1		1	м	н
	C OCCASIONAL - Might occur at	3. MODERATE - Medical treatment & several days off work, significant pollution requiring outside assistance, Employee		-	-	-	-		
	some time	grievances taken to the union, loss 10-20% of job cost, non-compliance with legislation/Licence conditions, business failure	V = Very High	2	L	L	м	н	V
	D FREQUENT - Will probably occur in	resulting in delay < 3 months and costs, plant/equipment loss < \$50,000	X = Extreme	_					
	most circumstances	4. MAJOR - long term illness/serious injury, significant pollution requiring outside assistance & long term environ damage,		3	м	м	н	v	X
	E CONTINUOUS - Is expected to	threatened industrial action, loss 20-70% of job cost, loss of production capability, order placed on Council by Authorities,		-					
	occur in most circumstances	business failure resulting in delay < 6 months and costs, plant/equipment loss <\$100,000		4	н	н	V	х	X
	Refer also to Councils Hazards, Risks	5. CATASTROPHIC - Death or permanent disability/illness, serious permanent environmental damage, Actual industrial action,							
i	and Controls Guidelines	loss >70% of job cost, potential prosecution by Authorities, business failure resulting in delay > 6 months and costs,		5	V	v	x	x	X
		plant/equipment loss > \$100,000		5	V		~	^	

Title

6.6	Appendix 6 - Additional Emergency Contacts
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AMBULANCE	000
GRAFTON	6643 1765
NSW FIRE & RESCUE	000
GRAFTON	6643 3491
POLICE STATION	000
GRAFTON	6642 0222
EPA POLLUTION HOTLINE	131 555
RURAL FIRE SERVICE	000
ULMARRA OFFICE	6644 5135
STATE EMERGENCY SERVICES (SES)	132 500
CLARENCE NAMBUCCA REGION OFFICE	6641 6900
HOSPITAL GRAFTON	6640 2222
ROADS & MARITIME SERVICES (RMS)	6640 1300
SOUTH GRAFTON	6640 1064
AFTER HOURS EMERGENCY	1800 644 116
TRANSPORT MANAGEMENT CENTRE	131 700
ELECTRICITY (ESSENTIAL ENERGY)	132 080
WIRES	1300 094 737
SAFEWORK NSW	131 050
NSW Health	1300 555 555
Pager	149 377
CLARENCE VALLEY COUNCIL Call centre – business hours Call centre – after hours Manager Water/Sewer Operations Andrew Potter Water & Sewer Operations Coordinator – Aaron Armstrong Environmental Health Officer – contact through call centre or Manager W	6643 0200 6626 6858 0409 968 855 0407 263 113 /ater Cycle

6.7 Appendix 7 – Power Failures Generator Priorities

Council staff are to physically attend any critical pump station (defined as "Priority 1") if a high level alarm is received to verify the pump station is physically operating.

Priority Ranking Philosophy.

Ranking	Response Time (Dry Weather)	Response Time (Wet Weather)
1	<3hrs	<1hr
2	<4hrs	<2hrs
3	<6hrs	<3hrs
4	<10hrs	<4hrs
5	<12hrs	<5hrs

Generator Requirements and Ranking Priority of Pump Stations during power failure

SPS #	Location	Generator Required (KVA)	Priority ranking
2N	Prince Street	100 one pump only	1
3AN	Pioneer Park	100 one pump only	2
3DN	Turf/Oliver	100	2
7AN	306 North Street	20	2
1AN	Market Square	100	3
1BN	Queen Street	100	3
1CN	Villiers Street	40	3
2AN	North Street (Volkers Park)	40	3
4AN	Kent/Oliver	40	3
5 N	Banksia Street	40	3
7N	Brougham Street	100	3
JH 1	Summerland way	100 one pump only	3
JH 2	Trenayr Rd	100 one pump only	3
JH 3	Back Lane	100 one pump only	3
JH 3B	Cronin Avenue	20	3
JH 4	Costello Estate	20	3
JH 4A	Lake Edgecombe	20	3
9N	Poplar Grove	20	4
3BN	Turf/Fry	40	4
3CN	Dobie Street	20	4
4N	Kent Street	100	4
JH 3C	Barnier Park	20	5
8N	Corcoran Park	20	5
5AN	North/Riverdale	20	5
5BN	North/Cranworth	20	5
JH5	Angus Drive	20	5

6.8 Appendix 8 – North Grafton Controlled Overflow/Surcharge Points

Location/ Catchment	Retic or SPS	Overflow/Surcharge Point		Inspection Point
		- Receiving waterway		
1AN Duke Street	Retic	Overflow MH, Gas-check MH to 450mm	•	Gas-check MH
		stormwater pipe – 1300m to river via	•	Stormwater pit Duke St
		Duke and Bacon St stormwater	•	S/W discharge river end Bacon St
1BN Pound/King St	Retic	Overflow MH, Gas-check MH to 525mm	•	Gas-check MH
		stormwater pipe – approx 660 m to	•	Stormwater pit Pound St
		river via Pound and Queen St stormwater	•	S/W discharge river end Queen St
2N Weilley Ave	Retic	Overflow MH with flap valve to 525mm	•	Overflow MH
		stormwater pipe – approx 930m to river	•	Stormwater pit Weilley Ave
		via Fry St stormwater	•	S/W discharge river end Fry St
2N Powell/Villiers St	Retic	Overflow MH, Gas-check MH to 900mm	•	Gas-check MH
		stormwater pipe – approx 840m to river		Stormwater pit Powell St
2N Drives (Arthur	606	via Poweli St stormwater	-	S/W discharge river end Powell St
2N Prince/Arthur	SPS	Overflow MH, Gas-check MH, Headwall		Gas-check MH
		area	•	open drain
3AN Powell/Alice St	Retic	Overflow MH, Gas-check MH to 750mm	•	Gas-check MH
		stormwater pipe – approx 440 m to	•	Stormwater pit Powell St
		Alumy Creek under-drain	•	Stormwater pit Alumy Creek
3BN Fry St/ Matheson Lane	Retic	Overflow MH, Gas-check MH to 375mm	•	Gas-check MH
		stormwater pipe – approx 450m to		Stormwater pit Fry St
		Alice St stormwater	•	Stormwater pit Alumy Creek
3BN 95 Queen St	Retic	Overflow from Boundary Shaft to open		Pipe discharge in drain
		swale drain – Alumy Creek		
3CN Turf/ Powell St	Retic	Overflow MH, Gas-check MH to 600mm	•	Gas-check MH
		stormwater pipe pipe – approx 650 m	•	Stormwater pit Powell St
		to Alumy Creek under-drain	•	Stormwater pit Alumy Creek
3DN Milton/Powell St	Retic	Overflow MH with flap valve – approx	•	Overflow MH
		370m to Eyre St drain via Willton and		Stormwater pit Powell St Evre St drain at North St
/N Kent/Erv St	Retic	Overflow MH_Gas-check MH – approx		Gas-check MH
4N Kent/Try St	Netic	450m to river via Fry St stormwater		Stormwater nit Fry Street
			-	S/W discharge river end Fry St
4AN Kent/Pound St	Retic	Overflow MH with flap valve to	•	Overflow MH
		1050mm stormwater pipe – approx	•	Stormwater pit Pound St
		320m to river via Pound St stormwater	•	S/W discharge river end Pound St
5N Hoof/Banksia St	Retic	Overflow MH, Gas-check MH to 525mm	•	Gas-check MH
		stormwater pipe – approx 660m to Eyre	•	Stormwater pit Hoof St
		stormwater	•	Eyre St drain at North St
7N Brougham St	Retic	Overflow MH with flap valve to 375mm	•	Overflow manhole
		stormwater pipe – approx 260m to Eyre	•	Stormwater pit in Lane
		St drain via Brougham St stormwater	•	Eyre St drain at North St
JH1 Summerland Way	SPS	Overflow MH, Gas-check MH, Headwall	•	Gas-check MH
		to open drain – approx 1500m to Alumy creek	•	Stormwater headwall
IH2 Trenavr Rd	SPS	Overflow MH Gas-check MH Headwall		Gas-check MH
		to open drain – approx 1600 m to	-	Stormwater headwall
		Alumy Ck		
JH3 Back Lane	SPS	Overflow MH, Gas-check MH, Headwall		Gas-check MH
	1	to open drain - unnamed	•	Stormwater headwall

6.9 Appendix 9.1 – Major Pollution Incident Form (Please use either form)

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WATER CYCLE PROCEDURE # 011 – Major Pollution Incidents Form



This form is usually completed by the Supervisor based on information provided by Operator. If Operator cannot contact the Supervisor, she/he should complete this form. This form is to be saved on ECM when completed.

Minor events: There is no need to report minor pollution incidents as they are captured through CRMs. If a minor event occurs without a CRM please create a CRM. Examples of minor events: adour complaints and chemical spills with no human health risk contained in bunded areas.

Major events: All major incidents need to be reported through this form. Examples of major events:

- any pollution incident with risk to human health
- chemical spills outside bunded areas or with
- health impacts significant sediment run off incidents
- large sewer spills, or sewer spills near waterways (including dry gullies), inside buildings or sensitive areas (e.g. schools, shopping precincts)

Incident Details

Person Completing Form:					
Incident Location:					
Cause of Pollution Incident:					
Method of detection. (e.g. telemetry, inspections, CRM):					
Actions taken to rectify:					
Incident witnesses (names/ph):					
Quantity discharged:	kL	Known Estimate	Duration of Discharge:	hr	C Known Estimate
Rainfall in last 24 hours:		mm	Other weather conditions (e.g. tide, currents, wind):		

Immediate Contacts: The following should be immediately contacted.

Name	Number	Contacted?	Time contacted	Ref. Number
EPA Environment Line	131 555	Yes / No	am / pm	
SafeWork NSW*	131 050	Yes / No	am / pm	
Fire & Rescue NSW*	000	Yes / No	am / pm	
	Consider contacting the following if r	elevant to incider	ıt.	
One of following: (1) NSW Shellfish Program (2)Grant Webster Shellfish Safety Officer (3) Local Industry Rep Alan Brooks	(1) BH: 6539 4800 or AH: 0407 078 269 (2) BH: 6539 4809 or AH: 0407 947 730 (3) 0408 214 896	Yes / No	am / pm	
NSW Environmental Health	BH: 1300 066 055 or AH: 0428 882 805	Yes / No	am / pm	
Fisheries	1800 043 536	Yes / No	am / pm	
Affected Neighbours	Determined on site	Yes / No	am / pm	
Chemical suppliers	Refer to MSDS	Yes / No	am / pm	
Council's Insurance & Risk Officer	6643 0200	Yes / No	am / pm	

*Notification is required by legislation. NSW EPA has requested that Council only notify Fire & Rescue of pollution incidents where they have a role in managing the incident (e.g. chemical spill, fire).

<u>Sampling</u>: The requirements of a sampling program are likely to be discussed with the immediate contacts listed above. Generally samples will be taken at the point of discharge and a suitable point upstream and downstream of the incident.

Clean Up: The clean up requirements will also be agreed upon by the contacts listed above.

Responsible Officer	Greg Mashiah	Version (Date)	V1.0 (May 2017)
	Pa	ge 1 of 1	

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	CVC Standard Operating Procedures -Surcharge and Overflow Events.
	Form 1 (To be filled out by the Sewerage Operator attending the surcharge / overflow event.)
ls the	event Minor or Major?
	Minor- any surcharge not immediately threatening public health or not likely to enter a waterway.
	Major - any surcharge immediately threatening public health or is likely to enter a waterway.
Recor	d the following information.
Locati	on
Cause	of surcharge
Rainfa	III in the last 24 hrsmm
Estima	ated quantity dischargedKL. Estimated Duration of Discharge
Metho	d of detection. E.g. Telemetry, regular inspections, Customer request
For M	ajor Overflows / Surcharges Complete the Following:
nue a	nu current movements
	Operator to contact Supervisor / Operations Engineer when situation assessed.
Super	visor to contact the following people if appropriate and note time of contact:
	DECC - Dellution Line 121555 or Croften 6640 2500 immediately situation accounted
	DECC – Pollution Line 131555 or Gratton 6640 2500 – Immediately situation assessed
	NSW Shellfish Program – B/Hours 6539 4800, A/H 0407078269
	Email <u>nswsp@toodauthority.nsw.gov.au</u> Or Grant Webster Shellfish Safety Officer 6539 4809, mob 0407 947 730
	Local Industry Rep Mitchell Gorman 0457 601 602
	Operations Engineer (BH: 6640 3528, AH: 0419 206 427) – within 12 hours
	Operations Engineer (Dri. 0040 0020, Arr. 0418 200 427) - within 12 hours
\Box	NSW Dept of Health Ph - 6620 7500 Fax 6621 7088
	CVC Environmental Officer
Samp	ling
If a Me	let everflow or evreberge energy, the requirements of a compling program will be agreed to
by the	responsible persons listed above. Generally, samples will be taken at the point of discharge
and a	suitable point approximately 50 metres each side of the contamination entering the waterway.
Testin	g will be carried out for Faecal Coliforms by a suitably qualified laboratory.
Clean	Up
Opera	tor to arrange control of or arrest surcharge and commence clean up of site.
Opera	tors Name. Date
This form	n is to be retained at the Sewerane Treatment Plant or by Supervisor and a convision to the Orientions Environment the next
working	day.
	1

SOP Sewer Surcharge / Overflow Form 1- September 2011

CVC Standard Operating Procedures -Surcharge and Overflow Events.

Major Surcharge and Overflow Incident Report – Additional Information

Form 2 (To be filled out by the Sewerage Operator attending the surcharge/overflow event)

Date:
Time:
Duration:
Concentration of pollutant entering waterway:
Actions taken to rectify the problem(s) and the reduction of pollutants entering waterways:
Details of any proposed measures to prevent reoccurrence of the problem:
Names and contact details of witnesses to the incident:
Location of where test samples were taken from:
Results of tests taken:
Results of tests taken:
Results of tests taken:
Results of tests taken: Any other relevant information:
Results of tests taken: Any other relevant information:
Results of tests taken: Any other relevant information:
Results of tests taken: Any other relevant information:
Results of tests taken: Any other relevant information: Operator. Date.

2

SOP Sewer Surcharge / Overflow Form 1- September 2011