Clarence Valley Council



Pollution Incident Response Management Plan

Clarenza Sewage System (STP and Reticulation)

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Amendment Detail	Authorised by	Date
Version 2 - All CVC PIRMP's re-drafted after testing on the 1st	G. Mashiah	24/05/2016
December 2015. Amendments included minor formatting changes;		
updated to		
schematics, contact details, chemical registers.		
Version 3 - Pollution incident section and form removed, replaced with	D. Eaton	01/06/2017
reference to SOP. References to OHS unit changed to WHS Unit.		
Updated		
WHS Unit phone numbers.		
Version 4 – Quantity of onsite wastewater added in Appendix 2. Names of	G. Mashiah	30/11/2017
key personnel added. Info added to Section 2.6 on exercising this plan.		
Version 4.1 – post Testing/review meeting December 2017.	G. Mashiah	15/12/2017
Minor drafting and typo corrections		
Remove references to 'Human Resources' section		
Add section 2.5.4 and Remove from appendix 6		
 Appendix 7 (formerly appendix 8) re-ordered in priority ranking 		
Appendix 8 (formerly appendix 9) added new locations		
Appendix 9 added		
Version 4.2 – post testing / review meeting February 2019	G. Mashiah	25/03/2019
Minor corrections and additions		
Version 4.3 - individual onsite meetings held at each STP	G. Mashiah	24/06/2020
Key personnel added		
Reticulation changes made		
Version 4.4 – Group review meetings held on 08/06/21 and 09/06/21	G. Mashiah	24/06/2021
New staff inducted		
 Existing staff participated in document review 		
SOP for pollution incidents reviewed		
Version 4.5 29/06/2022	G. Mashiah	29/06/2022
New staff inducted		
Existing staff participated in document review		
Staff details updated		
Version 4.6 29/06/2023	A. Potter	29/06/2022
New staff inducted		
 Existing staff participated in document review 		
Staff details updated		

1. Introduction

This plan has been developed to document the processes required to prepare for and respond to pollution incidents for the Clarenza Sewage Treatment Plant (STP) and associated reticulation (EPA Licence No. 2760) and ensure that hazards to the environment, human health and safety are minimised, 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 Clarenza Sewage System (STP and Reticulation - EPA Licence No. 2760). For site plan and sewerage schematic, refer to Section 6.1 Appendix 1 - Site Plan and Reticulation Schematic.

2. Pollution Incident Response Management Plan

The area of South Grafton is serviced by 79km of sewer mains and 21 pump stations which transfer sewage to the Clarenza STP. Clarenza STP treats approximately 2000kL of sewage daily in dry weather, potentially reaching 10 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 6.2 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**" (or "**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 B Drive at B:\Water Cycle\SEWERE\PIRMPs\">DIL Major Pollution Incidents Form.doc 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 town of South Grafton is 1-2 km away from the Clarenza STP. The nearest neighbour from the Clarenza STP is approximately 500 metres uphill and to the south-east. 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 Clarenza 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, pump stations, and Clarenza STP 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 electricians 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 135KVA trailer mounted and a 40KVA located in the Lower River area and a 20 KVA and a 120 KVA generator located in the Grafton area. The 120KVA generator is capable of running all of the Grafton SPS's and the 500KVA generator is capable of running Clarenza STP.

Appendix 7 - Power Failures Generator Priorities identifies the ranking order of generator supply required in the event of a total power failure. The ranking 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 - Clarenza 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
- SWP 106 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/Sewer Operations 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.

6. Appendices

- Appendix 1 Site Plan 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

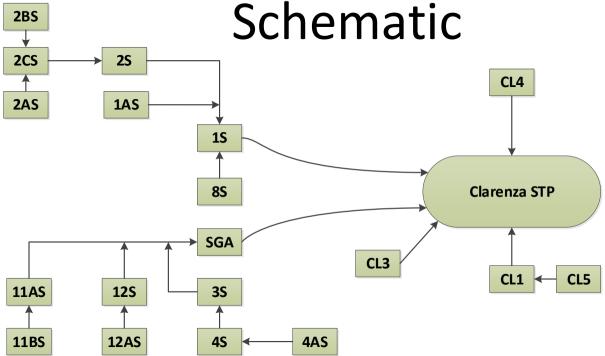
Clarenza STP Site Plan



TitleDoc NoVersionAuthorReviewerApproverApproverApproval DatePIRMP – Clarenza4.6K. McAndrewA.ArmstrongA.Potter29/06/2023

Pump Station Name	Pump Station Location
18	Crossroads
1AS	Pressure Sewer
28	Abbot street
2AS	Rodeo Park
2BS	Pressure Sewer (Future)
2CS	Ryan/Ardent Streets
38	Armidale St
48	Abattoirs
4AS	Hyde St
88	Ellen St
11AS	Fairway Drive
11BS	Denton Drive
128	St Josephs Sch.
12AS	Bent St (Millers)
SGA	Rushforth Road
CL1	Clarenza Road
CL3	Tyson St Industrial
CL4	McAuley College
CL5	Merton Brook Estate

Clarenza Sewer Schematic



6.2 Appendix 2 – Wastewater Storage Volumes

Date of register: June 2020

Item	Storage (kL)
Inlet Works	69
New IDEA Tank	3990
Old IDEA Tank	4460
Catch Pond	3525
Sludge Lagoon 1	1500
Sludge Lagoon 2	1670
Sludge Lagoon 3	1870
Storm Bypass Pond 1	11250
Storm Bypass Pond 2	28800
Storm Bypass Pond 3	30900

6.3 Appendix 3 - Site Chemical Register

Date of register: June 2020

MSDS kept in lab room / office building as well as at chemical location.

Chemical Name	Maximum Volume of Chemicals Stored	Location Where Chemical is Stored			
Aluminium Sulphate (Alum)	35000 L	Alum Bund			
Sodium Hydroxide (Caustic)	25000 L	Caustic Bund			
Diesel	40 L	Shed (in jerry cans)			
Unleaded petrol	20 L	Shed (in jerry cans)			
Glyphosate	20 L	Shed			
Phosphoric Acid	50 L	U.V. Shed			
Polymer	2x1000 L Bulk Container	De-watering Hardstand area			

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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 Clarenza STP, worn as PPE, or available in vehicles:

- Ear/hearing protection
- Sunscreen
- Apron/disposal overalls
- Rubber Gloves
- Goggles
- Gumboots

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 = Rating	Controls
	Clarenza Reticulation			
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

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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
	Sewage Treatment Plant			
1	Sewage freatment Plant Sewage overflow (raw) due to heavy rainfall	Land contamination, possibly enter a waterway		 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)	Land contamination, possibly enter a waterway		 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	W / - I	 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

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No)	Risk	Impact	Risk LxC = Rating		Controls						
7	Sewage overflow (rav	v) due to Treatment plant	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	BundingAlarmsInspection and maintenance	e of tanks						
9	Chemical spill During	delivery	Land contamination, possibly enter a waterway	B2 = M	SWMS PPE							
10	Chemical spill due to reticulation	Damage to chemical	Land contamination, possibly enter a waterway	A3 = M	 Locate services prior to exca Appropriate supervision of a Bypass systems Shut off valves for chemicals 	contractors						
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 Bund inspections									
13	Chemical truck incide	ent outside of bunded area	Land contamination, possibly enter a waterway	B3 = M	Only use transport companiOperator onsite during delivexceptional circumstances)			_		_	in	
Likeliho		Consequences				Rating			Lik	eliho	od	
exc	PROBABLE - May occur only in ceptional circumstances MOTE - Could occur at some	business failure resulting in de	minimal level of pollution, Employee grieva elay < 1 week and costs, plant/equipment l imited/localised impact, Employee grievar	oss < \$1,000	,	L = Low M = Medium	Consequence	А	В	С	D	Е
tim C oc	ne CASIONAL - Might occur at		Iting in delay < 1 month and costs, plant/e			H = High	1	L	L	L	М	Н
son	occasional - Might occur at some time Several days off work, significant pollution requiring outside assistance, Employee grievances taken to the union, loss 10-20% of job cost, non-compliance with legislation/Licence conditions, business failure resulting in delay < 3 months and costs, plant/equipment loss < \$50,000					V = Very High X = Extreme	2	L	L	М	Н	٧
mo	ost circumstances INTINUOUS - Is expected to	4. MAJOR - long term illness/ser	ious injury, significant pollution requiring oss 20-70% of job cost, loss of production	outside assista			3	М	М	I	٧	Х
осс	cur in most circumstances	business failure resulting in de	elay < 6 months and costs, plant/equipmer	nt loss < \$100,0	000		4	Н	Н	V	Х	Х
	so to Councils Hazards, Risks ntrols Guidelines		rmanent disability/illness, serious permane al prosecution by Authorities, business fail 1000		9 ,		5	V	V	Х	Х	Х

6.6 **Appendix 6 - Additional Emergency Contacts**

AMBULANCE GRAFTON	000 6643 1765
NSW FIRE & RESCUE GRAFTON	000 6643 3491
POLICE STATION GRAFTON	000 6642 0222
EPA POLUTION HOTLINE	131 555
RURAL FIRE SERVICE ULMARRA OFFICE	000 6644 5135
STATE EMERGENCY SERVICES (SES) CLARENCE NAMBUCCA REGION OFFICE	132 500 6641 6900
HOSPITAL GRAFTON	6640 2222
ROADS & MARITIME SERVICES (RMS) SOUTH GRAFTON AFTER HOURS EMERGENCY TRANSPORT MANAGEMENT CENTRE	6640 1300 6640 1064 1800 644 116 131 700
ELECTRICITY (ESSENTIAL ENERGY)	132 080
WIRES	1300 094 737
SAFEWORK NSW	131 050
NSW Health Pager	1300 555 555 149 377
CLARENCE VALLEY COUNCIL Call centre – business hours Call centre – after hours Manager Water/Sewer Operations Andrew Potter	6643 0200 6626 6858 0409 968 855

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Environmental Health Officer – contact through call centre or Manager Water Cycle

Water & Sewer Operations Coordinator – Aaron Armstrong

0407 263 113

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

Pump Station	Location	Generator Required KVA	Priority ranking
3S	Armidale Street	100 one pump only	1
SGA	Rushforth Rd/Tyson Street	100	1
15	Crossroads	100 one pump only	2
125	St Josephs School	40	2
2S	Abbot Street	40	3
4S	Abattoirs	20	3
4AS	Hyde Street	20	3
8S	Ellen Street	20	3
11AS	Fairway Drive	20	3
2CS	Ryan/Ardent Street	20	3
CL1	Clarenza Road	40	3
CL2	Merton Mews	40	3
CL3	Tyson Street Industrial	40	3
CL4	McAuley College	20	3
11BS	Denton Drive	40	4
12AS	Millers Bent St	40	4
2AS	Rodeo Park	20	5
2BS	Jabour Park	20	5
1AS	Rushforth Park	20	5

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6.8 Appendix 8 – Clarenza Catchment Controlled Overflow/Surcharge Points

Location/ Catchment	Retic or SPS	Overflow/Surcharge Point - Receiving waterway	Inspection Point
1S Beatson St	Retic	Overflow MH, Gas-check MH to 900mm stormwater pipe – approx 200m to Christopher Creek via underdrain	 Gas-check MH Stormwater pit in Christopher Creek under-drain Christopher Creek at Spring Street
1S 28 Ryan St	Retic	Overflow pipe from MH to Street gutter	Overflow MHGutter in Kelly Street
1S Kelly St/Infants School Lane`	Retic	Overflow MH with flap valve to 525mm stormwater pipe – approx 910m to Christopher Ck via Kelly Ck under-drain	 Overflow manhole Stormwater pit in Lane Christopher Creek at Spring Street
1S 42 Mackay St	Retic	Overflow MH with 75mm pipe to 600mm stormwater pipe – approx 90m to Musk valley Creek via Tyson Street stormwater	 Stormwater pit at Cnr Tyson Mackay St Stormwater discharge in Tyson St at Musk Valley Ck
2S Kennedy/Abbot St	Retic	Overflow MH, Gas-check MH, Intermediate MH, Headwall to Cowans Creek	Gas-check MHStormwater headwall in Abbot St at Cowans Creek
3S Armidale St	SPS	Overflow MH, Gas-check MH to 450mm stormwater pipe – approx 160m to Musk Valley Creek via Armidale Rd stormwater	 Gas-check MH Stormwater pit near in Armidale Rd Stormwater discharge in Armidale rd at Musk Valley Ck
4S Abattoirs	SPS	Overflow MH, Gas-check MH, Headwall to Musk Valley Creek	Gas-check MHStormwater headwall near creek
8S Ellen St	SPS	Overflow MH, Gas-check MH, Headwall to open drain – approx 220m to Musk Valley Creek	Gas-check MHStormwater headwall near open drain
12S St Josephs School	SPS	Overflow MH, Gas-check MH, Headwall to open ground	Gas-check MHStormwater headwall
SGA Bent La/Kelly St	Retic	Overflow MH with flap valve to 300mm stormwater pipe – approx 160m to Kelly Ck under-drain	Overflow manholeStormwater pit in LaneStormwater pit in Kelly Ck under-drain
SGA 48 Norrie Street	Retic	Overflow MH, Gas-check MH to 750mm stormwater pipe – Kelly Ck under-drain	Gas-check MHStormwater pit near drain
SGA Braylesford Park	Retic	Overflow weir in MH to 750mm stormwater pipe in gully	 Overflow MH 750mm pipe outlet into open drain adjacent to High School playing fields
SGA 3 Thomas St / Braylesford Park	Retic	Overflow MH, Gas-check MH to 750mm stormwater pipe in gully	 Overflow MH 750mm pipe outlet into open drain adjacent to High School lower playing fields
SGA – 4 Moorhead Dr / Cnr McFarlane St	Retic	Overflow MH, Gas-check MH to 750mm stormwater pipe	Overflow MHStormwater Pit 4 Moorhead Dr

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Appendix 9 – Major Pollution Incident Form (Please use either form) 6.9

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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: odour 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	☐ 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	relevant to incider	it.	
One of following: (1) NSW Shelflish Program (2)Grant Webster Shelflish 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).

Sampling: 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)
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Appendix 9.2 – Major Pollution Incident Form (Please use either form)

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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.)					
Is 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.					
Rec	ord the following information.					
Cau	ationse of surcharge					
Rair Esti Met	nfall in the last 24 hrsmm mated quantity dischargedKL. Estimated Duration of Dischargehod of detection. E.g. Telemetry, regular inspections, Customer request					
For Tide	Major Overflows / Surcharges Complete the Following: and current movements					
	Operator to contact Supervisor / Operations Engineer when situation assessed.					
Sup	pervisor to contact the following people if appropriate and note time of contact:					
	DECC - Pollution Line 131555 or Grafton 6640 2500 - immediately situation assessed					
	NSW Shellfish Program – B/Hours 6539 4800, A/H 0407078269 Email nswsp@foodauthority.nsw.gov.au 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					
	NSW Dept of Health Ph - 6620 7500 Fax 6621 7088					
	CVC Environmental Officer					
San	npling					
by to	Major overflow or surcharge occurs, the requirements of a sampling program will be agreed to he responsible persons listed above. Generally, samples will be taken at the point of discharge a suitable point approximately 50 metres each side of the contamination entering the waterway. ting will be carried out for Faecal Coliforms by a suitably qualified laboratory.					
Clea	an Up					
Оре	erator to arrange control of or arrest surcharge and commence clean up of site.					
Operators Name						
	form is to be retained at the Sewerage Treatment Plant or by Supervisor and a copy sent to the Operations Engineer the next ng day.					
SOP	Sewer Surcharge / Overflow Form 1- September 2011					

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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:
Any other relevant information:
OperatorDate
2

SOP Sewer Surcharge / Overflow Form 1- September 2011