

Local Operating Procedure (LOP)

Site	Mansfield
Title	Accident and Incident Management Plan

litie	Accident and incident Management Plan
Purpose	In accordance with condition 1.1 of Environmental Permit EPR/GP3704PP for Mansfield Sewage Treatment Works, held by Severn Trent Water Ltd (Severn Trent), there is a requirement to implement and maintain an Accident Management Plan and an Incident Response Plan.
	The following accident management plan has been written in accordance with the Environment Agency guidance on Develop a management system: environmental permits and H1 Environmental Risk Assessment principles.
	The incident response plan has been consolidated with the accident management plan for the convenience of the user.
	An Incident Response Plan is necessary since Severn Trent sites have the potential to cause significant environmental harm.
	Not all risks can be eliminated through the Accident Management Plan, so the Incident Response Plan has been added in order to direct Customer Operations, Local Resilience Forums, and other emergency responders to information on the local residual risks.
	 This plan should enable STW employees to: Clearly understand who needs to be contacted during an emergency; Identify possible risks to the environment that are present on site; and Identify other sources of information that are available regarding risks to the environment.
Who	All members of staff at Mansfield Severn Trent Water Ltd.

Must Have (H&S, Quality, Quantity, Environment, Training, Resources)	
N/A	
Remember – 'Stop, Think, Take 20'	

Summary Must Do

This document must be updated if the following changes are identified:

- 1. Addition or loss of a risk;
- 2. Change in mitigation strategies;
- 3. Change in likelihood of exposure;
- 4. Change in consequence;
- 5. Change in contact details; or
- 6. Change in incident response.

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1 Emergency Contacts

Following an assessment of the severity and nature of an incident, site management may trigger the Strategic Incident Management Plan which provides additional resources to manage an incident.

For any other queries, please refer to the Security Team below:

Resilience Specialist, Security and Resilience Team - DETAILS REDACTED FOR EA ISSUE

Security and Resilience Lead - $\ensuremath{\mathsf{DETAILS}}$ REDACTED FOR EA ISSUE

See Table 1.1 for the internal and external contact numbers for Mansfield STW.

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Table 1.1 - Internal and External Mansfield Contact Numbers

External Contacts			
Contact	Office Hours Number	Out of Hours Number	
Emergency Services (Fire/Police/Ambulance)	112 (Call 888 From STW landlines)	112 (Call 888 From STW landlines)	
Local Police	01773 730 215	101 (non-emergency)	
Police anti-terrorist hotline	0800 789 321	0800 789 321	
Local Hospital/NHS trust	(Ripley Hospital) 01773 743 456	111	
Environmental Regulator Incident Hotline	0800 80 70 60 (24 hour service)	0800 80 70 60 (24 hour service)	
Environmental Regulator Local Contact	(Lichfield) 0370 850 6506	0800 80 70 60 (24 hour service)	
Local Authority Emergency Planning Dept	(Amber Valley) 01773 570 222	01773 841 414	
Floodline	0345 988 1188 (24 hour service)	0345 988 1188 (24 hour service)	
Energy Company – Western Power	0800 678 105	Emergency: 105	
Highways Agency	0300 123 5000	0300 123 5000	
	Serious Pollution: 0800 47 999 47		
Canal & River Trust	Incident Reporting: 0303 040 4040	0303 040 4040	
Network Rail	0845 711 4141	British Transport Police: 0800 40 50 40	
Waste Management Contractor			
Specialist Clean Up Contractor			
Asbestos Management Contractor			
Internal Contacts			
STW Manager	DETAILCREDA	OTED FOR FA ISSUE	
STW Senior Technician	DETAILS REDA	CTED FOR EA ISSUE	
WWR Business Lead East			
Managing Director			
Environmental Permit Team Lead			
Environment, Regs & Permits Business Lead			
Health & Safety Manager			
Bioresources Area Manager			
Bioresources Business lead			
Fire Warden			

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2 Site Permit Background

2.1 Location

The Mansfield Sewage Treatment Works (STW) is located at Old Mill Lane, Forest Town, Mansfield, NG18 2DA. National Grid reference SK 54786241. What3Words reference for the entrance of the site ///update.spins.gift.

2.2 Operations

The sewage works receives domestic sewage and trade effluent from local industries via the public sewerage system. The site also accepts Tankered Trade Waste, Tankered Domestic Waste and interworks sludge. The permitted wastes are restricted to non-hazardous sludges that fall under waste in liquid form and wastewater as described in the Urban Wastewater Treatment Directive (UWWTD).

Wastes are treated aerobically via the Urban Wastewater treatment route (either on this site or prior to import from satellite sites), then treated anaerobically through Digesters. The activities at the works also include the combustion of biogases in one Combined Heat and Power (CHP) spark ignition engine and two auxiliary dual fuel boilers.

Full details of site operations and maintenance are described fully within our management system.

The activities covered by permit EPR/GP3704PP can be found in Schedule 1 of the permit.

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3 Identification of Hazards and Consequent Risk

3.1 Vulnerability of Site to Contamination

A summary of environmental receptors in the vicinity of the site is detailed in Table 3.1. Receptors sensitivity has been used to assess level of mitigation required in Appendix A: Accident Management Risk Table in order to maintain a low likelihood of exposure.

Table 3.1 – Local Receptors and Sensitivity

Receptor Type	Receptor(s)	Sensitivity	Reasoning
Groundwater	Secondary A aquifer deposit for superficial drift and Principal Aquifer for bedrock designation.	Medium	The site sits within a total catchment zone (Zone III) for SPZ
Surface Water	River Maun	Medium	River Maun is 20m east from the site and runs along the eastern boundary. Chemicals are stored near to the boundary furthest from the river.
Ecological	Maun Valley Park (LNR) Ravensdale (LNR) Quarry Lane (LNR) Birklands & Bilhaugh (SAC) Northfield House Wood (AW)	Medium	There are three LNRs within 2km. Maun Valley Park is 40m east and Ravensdale is 250m east of the site, whereas Quarry Lane is 1.8km south west of the site. There are no SSSIs within 2km. Birklands & Bilhaugh (SAC) is 7.7km north east of the site. There are no Ramsar sites or SPAs within 10km of the site. Northfield House Ancient Woodland is 3.5km north west of the site.
Local Population	Residential and commercial areas	High	The site is surrounded by residential and industrial areas. A school with two athletics fields lies 210m west of the site. A large industrial estate lies 40m west and 150m north which includes gyms, wholesalers, smaller shops, a postal sorting facility and fast food. Residential areas bound the site to the east and the south with a public green space between the houses and the site to the east. There are more public green spaces 270m north, 190m east, 50m south west, 260m south and 420m south east. There is also a public allotment 400m south and a caravan park 255m north east. Old Mill Lane (A6117) and Bath Lane (B6033) run from east to west immediately north and south of the site respectively.

3.2 Accident Risk Assessment

The methodology employed for the accident risk assessment is based on the H1 methodology and the results are included below in Appendix A: Accident Management Risk Table.

Appendix A: Accident Management Risk Table provides an environmental risk assessment of the worst-case accidents. There are a considerable number of safeguards against such events described in the risk mitigation column.

The hazards within works that could potentially result in an adverse effect on the environment have been identified. It should be noted that the initiator for the events has not necessarily been identified. For example for a

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fire, the specific source of ignition has not always been considered, rather a general assessment of the likelihood of the event.

The descriptors associated with each ranking are listed in Accident and Incident management Plan Standard Operating Procedure (SOP), giving a resulting level of likelihood (L) and consequence (C) of a hazard.

In order to evaluate the resultant risks posed by the site, a risk assessment matrix (Accident and Incident management Plan (SOP)) has been used. By reading down the rows to the appropriate likelihood level of a hazard, then across the columns to intersect with the appropriate consequence (C) level, the overall assessment of the hazard is identified.

Appendix A: Accident Management Risk Table contains the Accident Risk Assessment table. Click the link below for direction to a specific risk:

- 1. Contact with machinery;
- 2. Major Fire air pollution, smoke, odour;
- 3. Minor Fire air pollution, smoke, odour;
- 4. Failure to contain firewater;
- 5. Vandalism;
- 6. Flooding from rivers / stream / canal / groundwater;
- 7. Flooding due to drain blockages and / or excessive rainfall causing localised on-site surface water flooding;
- 8. Major vehicle accident leading to significant loss of fuel oil, coolant or engine oil, or transported product;
- 9. Significant loss of Fuel, oil, chemicals, materials during a delivery through overfill, delivery line rupture etc.
- 10. Misconnection of tanker offloading hoses;
- 11. Damage to tank (accidental rupture, vehicle impact, failure or vandalism) leading to significant inventory loss.:
- 12. Failure of storage tank, pipe rupture (raw materials, chemicals, fuels, product);
- 13. Spillage / leak of chemicals, fuel / oil, etc during handling / transfer;
- 14. Spillage of sludge during transfer / handling activities;
- 15. Failure of sludge, storage tanks / digester tanks e.g. tank overtopping, pipework leaks;
- 16. Failure of underground pipework (e.g. fuel, chemicals, sludge, site drains);
- 17. Buildup of H₂S in confined space;
- 18. Significant leak of biogas following failure of containment of digestor or gas holder;
- 19. Failure of flare leading to a buildup of biogas and possible fire / explosion;
- 20. Failure of dewatering activities leading escape from building of sludge with lower than normal dry solid content;
- 21. Excessive odour generation from processing operations;
- 22. Failure of Bearing / pump / machinery etc leading to excessive noise;
- 23. Equipment breakdown;
- 24. Enforced shutdown;
- 25. Bad weather (heat, cold, wind);
- 26. Plane crash;
- 27. Terrorist event;
- 28. Loss of electrical power to the installation, leading to loss of pumps, control systems;
- 29. Gas leak from PRV or pipework failure;
- 30. Failure of secondary / tertiary containment; and
- 31. Unidentified container contents.

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4 Conclusions of the Accident Risk Assessment

The accident risk assessment does not identify any unacceptable risks from the site due to the contained nature of the works and a considerable number of mitigating measures, both management and physical.

As part of a Severn Trent wide review, a number of actions are taking place to further improve the management and containment of our AD Sites.

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5 Incident Management Plan

The Incident Response Plan has been based on the pollution prevention guidance written by the Environment Agency for Pollution Incident Response Planning (PPG21).

An Incident Response Plan is necessary since Severn Trent sites have the potential to cause significant environmental harm.

The objective of this plan is to be used by Operators, Maintainers, SD Managers etc. in the event of finding a spillage, fire or flood on site. Flow charts for these events can be found in Appendix B: Incident Response Plans.

See Mansfield Fire Response Plan for details regarding Fire Alarms and Evacuation Plans.

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Appendix A: Accident Management Risk Table

What harm can be caused?			Managing the Risk		Assessing the risk		
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?	
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?	
1. Contact with machinery	Local population or livestock gaining unauthorised access to the installation. Bodily harm	Direct contact	Risk mitigated by following the security standard. Direct contact is minimised by activity being carried out within enclosed digesters. Banksmen are used when appropriate and vehicles have reversing alarms.	Highly unlikely	Severe	Low provided procedures are followed	
2. Major Fire - air pollution, smoke, odour	Local population. Respiratory irritation, illness and nuisance, injury to emergency workers, staff, arsonists. Ground and ground water. Ecological receptors	Windblown dispersion. Spillages and direct run off from site and from drainage system	100088 FIRE SAFETY STANDARD 100102 OFFICE SAFETY STANDARD COSHH RESPOSITORY ON WATERPEDIA (see related documents) 100082 MANAGING SUBSTANCES HAZARDOUS TO HEALTH STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP 100048 STANDARD FOR THE ACCEPTANCE AND STORAGE OF CHEMICALS USED ON WASTE WATER NON INFRA SITES 100162 ISOLATION OF ENERGY AND EQUIPMENT The CHP engine feed is fitted with a slam shut valve, which is activated by gas and temperature sensors in the engine container. The container also has forced air ventilation to prevent the formation of an explosive atmosphere. Fire alarm systems installed and maintained. Automatic cut off valve to biogas supply using a fusable link, electric temperature sensor, flame arrestors, etc.	Very unlikely	Medium	Low to medium provided procedures are followed	

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What harm can be caused?			Managing the Risk	Assessing the r	Assessing the risk		
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?	
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?	
3. Minor Fire - air pollution, smoke, odour	Local population. Respiratory irritation, illness and nuisance, injury to emergency works, staff, arsonists. Ground and ground water. Ecological receptors.	Windblown dispersion. Spillages and direct run off from site and from drainage system	All employees will undergo training relevant to their role in fire prevention, use of fire extinguishers and emergency procedures. There are named Fire Wardens. Hot work on site should be appropriately authorized prior to commencement. All sites are non-smoking. Smoking is only permitted in designated areas. A formal permit to work system will be in place to ensure appropriate precautions are taken and approval obtained Follow site Emergency Plan and inform relevant authorities. See above for major fire.	Low likelihood	Medium	Low provided procedures are followed	
4. Failure to contain firewater	Local water courses. Ground and Groundwater	Surface water drainage system.	100088 FIRE SAFETY STANDARD 100102 OFFICE SAFETY STANDARD COSHH RESPOSITORY ON WATERPEDIA (see related documents)	Low likelihood	Medium	Low provided procedures are followed.	

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What harm can be caused?			Managing the Risk	Assessing the risk		
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?
		Diffusion into ground.	100082 MANAGING SUBSTANCES HAZARDOUS TO HEALTH STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP 100048 STANDARD FOR THE ACCEPTANCE AND STORAGE OF CHEMICALS USED ON WASTE WATER NON INFRA SITES 100162 ISOLATION OF ENERGY AND EQUIPMENT Fire prevention measures above. Drainage of wider sewage treatment works contained and directed to the head of the works. All manholes and drainage points lead back to the works. Drain covers are available in spill kits located by oils and chemicals in the event of fire water contamination of oils/chemicals. Follow site Emergency Plan and inform relevant authorities			
5. Vandalism	Local population. Ecological receptors. Local water courses. Ground and groundwater.	Windblown dispersion. Surface water drainage system. Diffusion into ground.	Site security measures are in place including perimeter fence with controlled access gates. Regular inspection of perimeter fences. Site permanently manned. Address any specific equipment damage. Reinstate and review security measures.	Low likelihood	Medium	Low as management techniques are used
6. Flooding from rivers / stream / canal / groundwater	Local water courses. Ground and groundwater.	Surface water drainage system. Diffusion into ground.	305933 FLOOD EMERGENCY RESPONSE PLAN Most of the site is located in flood zone 1 (less than 1 in 1000 chance of flooding) with a small portion of the east of the site in flood zone 2 (between 1 in 100 and 1 in 1000 chance of flooding) along the river. The site does not benefit from flood defences.	Low likelihood	Mild	Low as management techniques are used

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What harm can be caused?					essing the risk		
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?	
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?	
			General wider works designed to minimize risk of localized works flooding due to storm surges. Inform the EA. Take appropriate corrective and preventative actions to minimize environmental impact. If the installation is in imminent danger of flooding or a flood alert has been issued, all electrical supplies in the affected area will be isolated. If possible, all stocks of fuel will be removed from the area at risk. Personnel will not attempt to enter a flooded area until a risk assessment has been undertaken or the flood has subsided. Personnel will follow instructions issued by supervisors, managers or other competent persons. Samples of floodwater will be obtained to determine whether it is contaminated. If the floodwater is not contaminated, it will be pumped to surface water. If contamination is shown to be present, the Environment Agency will be consulted before removal. Following remedial action to clear the flood water, an approved contractor will check all affected electrical supplies.				
7. Flooding due to drain blockages and / or excessive rainfall causing localised on-site surface water flooding	Local water courses. Ground and groundwater.	Surface water drainage system. Diffusion into ground.	100052 SITE STANDARDS Regular checks including drains and hardstanding. Spill response material including booms available to manage water If the installation is in imminent danger of flooding or a flood alert has been issued, all electrical supplies in the affected area will be isolated. If possible, all stocks of fuel will be removed from the area at risk. Personnel will not attempt to enter a flooded area until a risk assessment has been undertaken or the flood has subsided.	Likely	Minor	Low as management techniques are used	

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What harm can be caused?			Managing the Risk	Assessing the risk		
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?
8. Major vehicle accident leading to significant loss of fuel oil, coolant or engine oil, or transported product	Local water courses. Ground and groundwater, Localised fumes, bodily injury	Surface water drainage system. Diffusion into ground and air, physical contact	Personnel will follow instructions issued by supervisors, managers or other competent persons. Samples of floodwater will be obtained to determine whether it is contaminated. If the floodwater is not contaminated, it will be pumped to surface water. If contamination is shown to be present, the Environment Agency will be consulted before removal. Following remedial action to clear the flood water, an approved contractor will check all affected electrical supplies. 202325 SPILL RESPONSE SOP 100044 WASTE MANAGEMENT STANDARD COSHH RESPOSITORY ON WATERPEDIA (see related documents) 100082 MANAGING SUBSTANCES HAZARDOUS TO HEALTH STANDARD 100116 WORKPLACE STANDARDS 100107 TRAFFIC MANAGMENT ON MANNED SITES, DEPOTS AND OFFICES STANDARD 100097 MANAGING CONTRACTORS AND SUPPLIERS STANDARD 100098 FIRE SAFETY STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP 100048 STANDARD FOR THE ACCEPTANCE AND STORAGE OF CHEMICALS USED ON WASTE WATER NON INFRA SITES Spill kits are available insitu where chemicals and oil are stored. These will be used to cover drains if necessary to prevent spills retuning to the head of the works and remedy the spill. Vehicle speed is low due to small size of site. Speed limit restrictions are currently in place as part of the sites traffic management plan — which also includes a one-way system Most drivers are familiar with the site – routine deliveries.	Highly unlikely	Severe	Low as management techniques are used

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What harm can be caused?		Managing the Risk Assessing the risk				
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?
			Road vehicles are very robust and designed to withstand high-speed collisions. Any evidence of sizeable spillage or leakage would be reported to the Site Manager or his deputy for appropriate remedial action. All operators are trained in spillage management. STW have a 24hr external response service for emergency clean-up.			
9. Significant loss of Fuel, oil, chemicals, materials during a delivery – through overfill, delivery line rupture etc.	Local water courses. Ground and groundwater. Localised fumes, bodily injury	Surface water drainage system. Diffusion into ground and air, physical contact	204720, 204721, 204911, 204721, 204722 CHEMICAL DELIVERY SOPS 202325 SPILL RESPONSE SOP COSHH RESPOSITORY ON WATERPEDIA (see related documents) 100044 WASTE MANAGEMENT STANDARD 100082 MANAGING SUBSTANCES HAZARDOUS TO HEALTH STANDARD 100116 WORKPLACE STANDARDS 100088 FIRE SAFETY STANDARD 100097 MANAGING CONTRACTORS AND SUPPLIERS STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP 204344 EMS SPILL KIIT SOP 100048 STANDARD FOR THE ACCEPTANCE AND STORAGE OF CHEMICALS USED ON WASTE WATER NON INFRA SITES All polluting materials delivered to site will be unloaded by suitably competent employees from the delivery company, and overseen by a designated competent operative. Oil and chemicals are stored in secondary containment via steel double walled storage tanks or bund. Regular visual inspection of containment. Records of all deliveries are kept. Tanks are checked for capacity before filling. All road tanker on and off loading points are locked to ensure use by authorised personnel only.	Likely	Mild	Low as management techniques are used

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What harm can be	caused?		Managing the Risk	Assessing the r	isk	
Source	Receptor	Pathway	Controls	Likelihood of	Consequence	What is the
NAME OF THE PERSON OF THE PERS			5. I 5. II 5	exposure		residual risk?
What has the	What is at risk? What do	How can the	Risk Mitigation	How	What is the	What is the
potential to cause harm?	I wish to	hazard get to		probable is this contact?	harm that can be caused?	risk that still remains?
Harms	protect?	the receptor		this contact?	be causeur	remains:
10. Misconnection of tanker offloading hoses	Local water courses. Ground and groundwater, local population	Overtopping, failure of digestion process	The fill/dispensing connection point is kept locked and is within the outer tank. The tanker on and off loading area is concrete hard standing. If a tank was overwhelmed or leak occurs outside of a bund the drainage of the wider sewage treatment works is contained. Spill kits are available insitu where chemicals and oil are stored. These will be used to cover drains if necessary to prevent spills retuning to the head of the works and remedy the spill. Any evidence of sizeable spillage or leakage would be reported to the Site Manager or his deputy for appropriate remedial action. All operators are trained in spillage management. STW have a 24hr external response service for emergency clean-up. 204720, 204721, 204911, 204721, 204722 CHEMICAL DELIVERY SOPS 202325 SPILL RESPONSE SOP COSHH RESPOSITORY ON WATERPEDIA (see related documents) 100044 WASTE MANAGEMENT STANDARD 100082 MANAGING SUBSTANCES HAZARDOUS TO HEALTH STANDARD 100116 WORKPLACE STANDARDS 100088 FIRE SAFETY STANDARD 100097 MANAGING CONTRACTORS AND SUPPLIERS STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP 204344 EMS SPILL KIIT SOP 100048 STANDARD FOR THE ACCEPTANCE AND STORAGE OF CHEMICALS USED ON WASTE WATER NON INFRA SITES Pre-acceptance and acceptance testing.	Likely	Mild	Low as management techniques are used

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What harm can be caused?			Managing the Risk	Assessing the risk		
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the	What is at	How can the	Risk Mitigation	How	What is the	What is the
potential to cause	risk? What do	hazard get to		probable is	harm that can	risk that still
harm?	I wish to	the receptor		this contact?	be caused?	remains?
	protect?					
			Hoses are provided on-site to be used by the tankers to mitigate against misconnection. All polluting materials delivered to site will be unloaded by suitably competent employees from the delivery company, and overseen by a designated competent operative. Oil and chemicals are stored in secondary containment via steel double walled storage tanks or bunds where required. Regular visual inspection of containment. Records of all deliveries are kept. Tanks are checked for capacity before filling. All road tanker on and off-loading points are locked to ensure use by authorised personnel only. The fill/dispensing connection point is kept locked and is within the outer tank. The tanker on and off-loading area is concrete hard standing.			
			If a tank was overwhelmed or leak occurs outside of a bund the drainage of the wider sewage treatment works is contained. Spill kits are available insitu where chemicals and oil are stored. These will be used to cover drains if necessary to prevent spills retuning to the head of the works and remedy the spill.			
			Any evidence of sizeable spillage or leakage would be reported to the Site Manager or his deputy for appropriate remedial action. All operators are trained in spillage management. STW have a 24hr			
			external response service for emergency clean-up.			
11. Damage to	Local water	Surface water	204720, 204721, 204911, 204721, 204722 CHEMICAL DELIVERY SOPS	Low	Medium	Low as
tank (accidental	courses.	drainage	202325 SPILL RESPONSE SOP	likelihood		managemen
rupture, vehicle	Ground and	system.	COSHH RESPOSITORY ON WATERPEDIA (see related documents)			techniques
impact, failure or	groundwater.	Diffusion into	100044 WASTE MANAGEMENT STANDARD			are used
vandalism) leading		ground.	200711 NON INFRA POLLUTION RESPONSE SOP			
, ,	I	-	204344 EMS SPILL KIIT SOP	1	1	I

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What has the What has the potential to cause risharm?	Receptor What is at risk? What do I wish to protect?	Pathway How can the hazard get to the receptor	Risk Mitigation 100048 STANDARD FOR THE ACCEPTANCE AND STORAGE OF CHEMICALS USED ON WASTE WATER NON INFRA SITES All polluting materials delivered to site will be unloaded by suitably competent employees from the delivery company, and overseen by a designated competent operative. Oil and chemicals are stored in secondary containment via steel double walled storage tanks or bund where required. Regular visual inspection of containment. Records of all deliveries are kept. Tanks are checked for capacity before filling. All road tanker on and off-loading points are locked to ensure use by	Likelihood of exposure How probable is this contact?	Consequence What is the harm that can be caused?	What is the residual risk? What is the risk that still remains?
potential to cause risharm? I volume potential to cause risharm? I volume potential to significant	risk? What do I wish to	hazard get to	100048 STANDARD FOR THE ACCEPTANCE AND STORAGE OF CHEMICALS USED ON WASTE WATER NON INFRA SITES All polluting materials delivered to site will be unloaded by suitably competent employees from the delivery company, and overseen by a designated competent operative. Oil and chemicals are stored in secondary containment via steel double walled storage tanks or bund where required. Regular visual inspection of containment. Records of all deliveries are kept. Tanks are checked for capacity before filling. All road tanker on and off-loading points are locked to ensure use by	probable is	harm that can	risk that still
			CHEMICALS USED ON WASTE WATER NON INFRA SITES All polluting materials delivered to site will be unloaded by suitably competent employees from the delivery company, and overseen by a designated competent operative. Oil and chemicals are stored in secondary containment via steel double walled storage tanks or bund where required. Regular visual inspection of containment. Records of all deliveries are kept. Tanks are checked for capacity before filling. All road tanker on and off-loading points are locked to ensure use by			
			authorised personnel only. The fill/dispensing connection point is kept locked and is within the outer tank. The tanker on and off-loading area is concrete hard standing. If a tank was overwhelmed or leak occurs outside of a bund the drainage of the wider sewage treatment works is contained. Spill kits are available insitu where chemicals and oil are stored. These will be used to cover drains if necessary to prevent spills retuning to the head of the works and remedy the spill. Any evidence of sizeable spillage or leakage would be reported to the Site Manager or his deputy for appropriate remedial action. All operators are trained in spillage management. STW have a 24hr external response service for emergency clean-up.			
storage tank, pipe corupture (raw G	Local water courses. Ground and groundwater.	Surface water drainage system. Diffusion into ground.	204720, 204721, 204911, 204721, 204722 CHEMICAL DELIVERY SOPS 202325 SPILL RESPONSE SOP COSHH RESPOSITORY ON WATERPEDIA (see related documents) 100044 WASTE MANAGEMENT STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP	Low likelihood	Medium	Low as management techniques are used

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What harm can be	caused?		Managing the Risk	Assessing the r	isk	
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?
	protect?					
chemicals, fuels, product)			204344 EMS SPILL KIIT SOP 100048 STANDARD FOR THE ACCEPTANCE AND STORAGE OF CHEMICALS USED ON WASTE WATER NON INFRA SITES All polluting materials delivered to site will be unloaded by suitably competent employees from the delivery company, and overseen by a designated competent operative. Oil and chemicals are stored in secondary containment via steel double walled storage tanks or bund where required. Regular visual inspection of containment. Records of all deliveries are kept. Tanks are checked for capacity before filling. All road tanker on and off-loading points are locked to ensure use by authorised personnel only. The fill/dispensing connection point is kept locked and is within the outer tank. The tanker on and off-loading area is concrete hard standing. If a tank was overwhelmed or leak occurs outside of a bund the drainage of the wider sewage treatment works is contained. Spill kits are available insitu where chemicals and oil are stored. These will be used to cover drains if necessary to prevent spills retuning to the head of the works and remedy the spill. Any evidence of sizeable spillage or leakage would be reported to the Site Manager or his deputy for appropriate remedial action.			
			All operators are trained in spillage management. STW have a 24hr external response service for emergency clean-up.			
13. Spillage / leak of chemicals, fuel / oil, etc during handling / transfer	Local water courses. Ground and groundwater.	Surface water drainage system.	202325 SPILL RESPONSE SOP COSHH RESPOSITORY ON WATERPEDIA (see related documents) 100044 WASTE MANAGEMENT STANDARD 100097 MANAGING CONTRACTORS AND SUPPLIERS STANDARD	Likely	Mild	Low as management techniques are used

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What harm can be o	caused?		Managing the Risk	Assessing the r	isk	
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?
		Diffusion into ground.	100088 FIRE SAFETY STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP Hoses are provided on-site to be used by the tankers to mitigate against misconnection. Oil and chemicals are stored in a secondary containment via steel double walled storage tanks or bund where required. Regular visual inspection of containment. If a tank was overwhelmed or leak occurs outside of a bund the drainage of the wider sewage treatment works is contained. Spill kits are available insitu where chemicals and oil are stored. These will be used to cover drains if necessary to prevent spills retuning to the head of the works and remedy the spill. Any evidence of sizeable spillage or leakage would be reported to the Site Manager or his deputy for appropriate remedial action. All operators are trained in spillage management. STW have a 24hr external response service for emergency clean-up. The CHP engine is containerised, the unit also has a low-pressure sensor on the coolant system. All drummed material storage areas have secondary containment. Bulk antifoam is stored in 1000 litre IBC units within suitable drip trays. Polymer is stored in a self-contained unit and all pipe work is dual walled.			
14. Spillage of sludge during transfer / handling activities	Local water courses. Ground and groundwater.	Surface water drainage system. Diffusion into ground.	202325 SPILL RESPONSE SOP COSHH RESPOSITORY ON WATERPEDIA (see related documents) 100044 WASTE MANAGEMENT STANDARD 100088 FIRE SAFETY STANDARD 100097 MANAGING CONTRACTORS AND SUPPLIERS STANDARD	Likely	Minor	Low

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What harm can be	caused?		Managing the Risk	Assessing the r	isk	
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?
			200711 NON INFRA POLLUTION RESPONSE SOP Hoses are provided on-site to be used by the tankers to mitigate against misconnection. Provision of secondary containment via steel double walled storage tanks. Regular inspection of containment. If a leak occurs the drainage of the wider sewage treatment works is contained and spill directed to the head of the works. Any evidence of sizeable spillage or leakage would be reported to the Site Manager or his deputy for appropriate remedial action. All operators are trained in spillage management and spill kits are available on site. STW have a 24hr external response service for emergency clean-up.			
15. Failure of sludge, storage tanks / digester tanks e.g. tank overtopping, pipework leaks	Local water courses. Ground and groundwater.	Surface water drainage system. Diffusion into ground.	202325 SPILL RESPONSE SOP COSHH RESPOSITORY ON WATERPEDIA (see related documents) 100044 WASTE MANAGEMENT STANDARD 100088 FIRE SAFETY STANDARD 100097 MANAGING CONTRACTORS AND SUPPLIERS STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP 204344 EMS SPILL KIIT SOP 100048 STANDARD FOR THE ACCEPTANCE AND STORAGE OF CHEMICALS USED ON WASTE WATER NON INFRA SITES Hoses are provided on-site to be used by the tankers to mitigate against misconnection. Regular infrastructure visual inspections including pipework and tanks and planned preventive maintenance system in place.	Low likelihood	Medium	Low as management techniques are used

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What harm can be o	caused?		Managing the Risk	Assessing the r	isk	
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?
16. Failure of underground pipework (e.g. fuel, chemicals, sludge, site drains)	Ground and groundwater	Infiltration / percolation through ground	High level alarms on all tanks and digesters. Digester foaming is monitored and anti-foam added as required. Primary digesters subject to periodic grit removal as required. Any evidence of sizeable spillage or leakage would be reported to the Site Manager or his deputy for appropriate remedial action. All operators are trained in spillage management and spill kits are available on site. All drains lead to the head of the works. Spilled sludge can be directed to drains. STW have a 24hr external response service for emergency clean-up. 202325 SPILL RESPONSE SOP COSHH RESPOSITORY ON WATERPEDIA (see related documents) 100044 WASTE MANAGEMENT STANDARD 100088 FIRE SAFETY STANDARD 100097 MANAGING CONTRACTORS AND SUPPLIERS STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP 204344 EMS SPILL KIIT SOP 100048 STANDARD FOR THE ACCEPTANCE AND STORAGE OF CHEMICALS USED ON WASTE WATER NON INFRA SITES Regular infrastructure inspections including visible pipework and tanks and planned preventive maintenance system in place. Any evidence of leakage including staining to ground would be reported to the Site Manager or his deputy for appropriate remedial action. All operators are trained in spillage management. STW have a 24hr external response service for emergency clean-up. Site is within groundwater SPZ Zone III.	Low likelihood	Medium	Low as management techniques are used
17. Buildup of H ₂ S in confined space	Local population,	Windblown dispersion.	100247 ABOVE GROUND HYDROGEN SULPHIDE STANDARD 100104 PPE	Low likelihood	Medium	Low as management

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What harm can be	caused?		Managing the Risk	Assessing the risk		
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?
18. Significant leak of biogas following failure of containment of digester or gas	staff, emergency workers, ecological receptors Local population. Contribution to climate	Windblown dispersion.	Staff are trained to carry out risk assessment prior to the entry of potentially hazardous spaces. Staff are provided with and trained in the use of personal gas monitors. There is a regular calibration program for gas monitors. Continuous process monitoring to identify abnormal conditions that could result in buildup of H2S. Repair and maintenance teams on 24hr standby. 100121 DSEAR STANDARD 100088 FIRE SAFETY STANDARD 204717 Digester Emergency Alarms Guide	Highly unlikely	Medium	Low as management techniques are used
digestor or gas holder 19. Failure of flare	change.	Windblown	Guarding of exposed pipework. Regular maintenance inspections. Pressure is monitored 24/7 by operations control centre. Any alarms initiated are actioned immediately. Vent gas through flare if possible. Inform EA and emergency services. Invoke Site Emergency Plan. 100121 DSEAR STANDARD	Low	Severe	Moderate as
leading to a buildup of biogas and possible fire / explosion	population, respiratory irritation, illness and nuisance, injury to emergency	dispersion. Spillages and direct run off from site and from drainage system	100088 FIRE SAFETY STANDARD 100102 OFFICE SAFETY STANDARD COSHH RESPOSITORY ON WATERPEDIA (see related documents) 100097 MANAGING CONTRACTORS AND SUPPLIERS STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP 100162 ISOLATION OF ENERGY AND EQUIPMENT	likelihood		management techniques are used

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What harm can be	caused?		Managing the Risk	Assessing the r	isk	
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?
	works, staff, arsonists. Ground and groundwater		The engine feed is fitted with a slam shut valve, which is activated by gas and temperature sensors in the engine container. The container also has forced air ventilation to prevent the formation of an explosive atmosphere. Fire alarm systems installed and maintained. Automatic cut off valve to biogas supply using a fusable link, electric temperature sensor, flame arrestors, etc. All employees will undergo training relevant to their role in fire prevention, use of fire extinguishers and emergency procedures. There are named Fire Wardens. All sites are non-smoking. Smoking is only permitted in designated areas. A formal permit to work system will be in place to ensure appropriate precautions are taken and approval obtained. Pressure release valves automatically operate to reduce pressure.			
20. Failure of dewatering activities leading escape from building of sludge with lower than normal dry solid content	Local water courses. Ground and groundwater.	Surface water drainage system. Diffusion into ground.	Repair and maintenance teams on 24hr standby. Scheduled inspection, repair and maintenance tasks, with a central tracking system for completion and escalation. Remote alarm systems. Secondary and tertiary containment in case of loss of containment. Drainage of wider sewage treatment works contained and directed to the head of the works.	Low likelihood	Medium	Low as management techniques are used
21. Excessive odour generation from processing operations	Local population.	Windblown dispersion. Loss of amenity	100269 ASSET STANDARD ODOUR TREATMENT AND CONTROL PLANTS SITE ODOUR MANAGEMENT PLAN (If available) All odourous materials are stored in enclosed systems where possible.	Likely	Mild	Low as management techniques are used

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What harm can be	caused?		Managing the Risk	Assessing the risk		
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?
22 Failure of			Complaints handing process. The site removed their cake pad due to previous complaints and additional trees planted to provide screening. Appropriate odour control units are installed in accordance with engineering standards. Preventative maintenance programme and cleaning regime. Identify source of odour. If issues arise from the acceptance of tanker delivered materials, these would be diverted from the site in the future. In the event of a fault take corrective action. Review as appropriate.		Mild	
22. Failure of Bearing / pump / machinery etc leading to excessive noise	Local population	Air dispersion	Complaints handing process. Repair and maintenance teams on 24hr standby. Planned preventative maintenance in place.	Low likelihood	Mild	Low as management techniques are used
23. Equipment breakdown	Local water courses. Ground and groundwater. Air emissions	Surface water drainage system. Diffusion into ground.	Repair and maintenance teams on 24hr standby. Scheduled inspection, repair and maintenance tasks, with a central tracking system for completion and escalation. Remote alarm systems. Secondary and tertiary containment in case of loss of containment. Start-up/shutdown procedures. Control of contractors. The specific consequences of equipment breakdown (fire, spillage etc) are dealt with above.	Low likelihood	Medium	Low as management techniques are used
24. Enforced shutdown	Local water courses. Ground and groundwater.	Surface water drainage system. Diffusion into ground.	Repair and maintenance teams on 24hr standby. Scheduled inspection, repair and maintenance tasks, with a central tracking system for completion and escalation. Remote alarm systems. Secondary and tertiary containment in case of loss of containment.	Highly Unlikely	Medium	Low as management techniques are used

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What harm can be	caused?		Managing the Risk	Assessing the r	isk	
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?
			Start-up/shutdown procedures. Control of contractors.			
25. Bad weather (heat, cold, wind)	Local water courses. Ground and groundwater.	Surface water drainage system. Diffusion into ground.	Known issues regarding the effect of colder temperatures on the efficacy of water-based processes. Severn Trent policies are in place to mitigate against permit breaches. Repair and maintenance teams on 24hr standby. Scheduled inspection, repair and maintenance tasks, with a central tracking system for completion and escalation. Remote alarm systems. Secondary and tertiary containment in case of loss of containment. Start-up/shutdown procedures.	Likely	Minor	Low
26. Plane crash	Local water courses. Ground and groundwater, local population	Surface water drainage system. Diffusion into ground, windborne.	100088 FIRE SAFETY STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP 100089 FIRST AID AT WORK STANDARD Emergency services and management would be contacted. Staff would follow emergency services and management guidance if an event were to occur.	Highly Unlikely	Severe	Low as management techniques are used
27. Terrorist event	Local water courses. Ground and groundwater, local population	Surface water drainage system. Diffusion into ground, windborne.	100052 SECURITY STANDARD 100088 FIRE SAFETY STANDARD 100089 FIRST AID AT WORK STANDARD Security is maintained throughout the site minimising unauthorised access to the site, chemicals and assets. Staff would notify management of anything suspicious, the emergency services would be contacted. Staff would follow management guidance and emergency services if an event were to occur.	Highly Unlikely	Severe	Low as management techniques are used

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What has the potential to cause harm? What is at risk? What do lawst risk? What do lawst risk? What do lawst risk? What do lawst rotect? 28. Loss of electrical power to the installation, leading to loss of pumps, control systems Local water courses. Local water courses. Local water delawster delawster with eight and low gas pressure tinks. Start-up/shutdown procedure. 29. Gas leak from PRV or pipework failure Local population Local water courses. Local water courses. Local water courses. Local water delawster with elawster with expension schedule for digesters by competent persons – records are kept of this. What is the risk? What do lawster with sky that still probable is this contact? What is the risk? What do lawster with sky that still remains? What is the risk? What do lawster with sky that still remains? What is the risk? What do lawster with sky that still remains? Local water so water with sky that still remains? Local water so water with sky that still remains? Local water so water with sky that still remains? Likely Minor Negligible as management techniques are used There are two incoming power supplies to the site. CHP engines produce power for the site so nothing will be switched off. Repair and maintenance teams on 24hr standby. Replication into ground and and escalation. Remote alarm systems. Start-up/shutdown procedure. Instrumentation to measure gas pressure linked to telemetry alarms and will generate a site visit and investigation (including out of hours). The CHP engines also have high and low gas pressure trips. PRVs are periodically inspected. There is a regular inspection schedule for digesters by competent persons – records are kept of this. 30. Failure of Local water Surface water COSHH RESPOSITORY ON WATERPEDIA (see related documents) Highly Medium Low as	What harm can be o	aused?		Managing the Risk	Assessing the r	isk	
Potential to cause Inish to	Source	Receptor	Pathway	Controls		Consequence	What is the residual risk?
electrical power to the installation, Ground and groundwater pumps, control systems Reading to loss of pumps, control systems 29. Gas leak from PRV or pipework failure 30. Failure of secondary / tertiary (containment groundwater) Total and groundwater. Surface water drainage systems. Surface water drainage systems. Surface water drainage systems. Doublet Missersion into groundwater produce power for the site so nothing will be switched off. Repair and maintenance tasks, with a central tracking system for completion and escalation. Remote alarm systems. Start-up/shutdown procedure. Air dispersion into groundwater produce power for the site so nothing will be switched off. Repair and maintenance tasks, with a central tracking system for completion and escalation. Remote alarm systems. Start-up/shutdown procedure. Air dispersion into groundwater produce power for the site so nothing will be switched off. Repair and maintenance tasks, with a central tracking system for completion and escalation. Remote alarm systems. Start-up/shutdown procedure. Air dispersion into groundwater produce power for the site so nothing will be switched off. Repair and maintenance tasks, with a central tracking system for completion and escalation. Remote alarm systems. Start-up/shutdown procedure. Instrumentation to measure gas pressure linked to telemetry alarms and will generate a site visit and investigation (including out of hours). The CHP engines also have high and low gas pressure trips. PRVs are periodically inspected. There is a regular inspection schedule for digesters by competent persons – records are kept of this. CosH RESPOSITORY ON WATERPEDIA (see related documents) to the produce are used with the produce are used for digesters by competent persons. Proceed as a set of the produce are used with the produ	potential to cause	risk? What do I wish to	hazard get to	Risk Mitigation	probable is	harm that can	risk that still
PRV or pipework failure and will generate a site visit and investigation (including out of hours). The CHP engines also have high and low gas pressure trips. PRVs are periodically inspected. There is a regular inspection schedule for digesters by competent persons – records are kept of this. 30. Failure of secondary / courses. Ground and containment COSHH RESPOSITORY ON WATERPEDIA (see related documents) 100044 WASTE MANAGEMENT STANDARD 1000497 MANAGING CONTRACTORS AND SUPPLIERS STANDARD 100116 WORKPLACE STANDARD 100116 WORKPLACE STANDARD 100107 TRAFFIC MANAGEMENT ON MANNED SITES, DEPOTS AND Windblown dispersion Windblown dispersion And will generate a site visit and investigation (including out of hours) 1004 Was pressure trips. PRVs are periodically inspected. There is a regular inspection 1004 was required. COSHH RESPOSITORY ON WATERPEDIA (see related documents) 100044 WASTE MANAGEMENT STANDARD 100045 MANAGING CONTRACTORS AND SUPPLIERS STANDARD 10016 WORKPLACE STANDARD 10016 WORKPLACE STANDARD 10017 TRAFFIC MANAGEMENT ON MANNED SITES, DEPOTS AND 0FFICES STANDARD 100097 MANAGING CONTRACTORS AND SUPPLIERS STANDARD 100088 FIRE SAFETY STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP	electrical power to the installation, leading to loss of pumps, control	courses. Ground and	drainage system. Diffusion into	200711 NON INFRA POLLUTION RESPONSE SOP 100097 MANAGING CONTRACTORS AND SUPPLIERS STANDARD There are two incoming power supplies to the site. CHP engines produce power for the site so nothing will be switched off. Repair and maintenance teams on 24hr standby. Failsafe systems in place to ensure that sludge remains insitu. Scheduled inspection, repair and maintenance tasks, with a central tracking system for completion and escalation. Remote alarm systems.	Likely	Minor	management techniques
secondary / tertiary Ground and groundwater. Ground and groundwater. Diffusion into dispersion dispersion Groundwater. Groundwater. Groundwater. Groundwater. Diffusion into groundwater. Diffusion into dispersion dispersion dispersion Groundwater. Diffusion into dispersion dispersion Diffusion into dispersion Diffusion Diff	PRV or pipework		Air dispersion	and will generate a site visit and investigation (including out of hours). The CHP engines also have high and low gas pressure trips. PRVs are periodically inspected. There is a regular inspection schedule for digesters by competent persons – records are kept of	1 -	Medium	management techniques
	secondary / tertiary	courses. Ground and	drainage system. Diffusion into ground. Windblown	100044 WASTE MANAGEMENT STANDARD 100097 MANAGING CONTRACTORS AND SUPPLIERS STANDARD 100116 WORKPLACE STANDARDS 100107 TRAFFIC MANAGEMENT ON MANNED SITES, DEPOTS AND OFFICES STANDARD 100097 MANAGING CONTRACTORS AND SUPPLIERS STANDARD 100088 FIRE SAFETY STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP		Medium	management techniques

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What harm can be caused?			Managing the Risk	Assessing the risk		
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?
			Fill and dispensing points are kept locked. Regular inspections take place, with a centrally run system for repairs and escalation. Remote alarm systems in place. Tanks are located on concrete hard standing with adjacent areas either tarmac or concrete hard standing, which is kept in good condition. Drainage of wider sewage treatment works contained and directed to the head of the works. Any evidence of spillage or leakage would be reported to the Site Manager or his deputy for appropriate remedial action. All operators are trained in spillage management and spill kits are available on site. STW have a 24hr external response service for emergency clean-up.			
31. Unidentified container contents	Local water courses. Ground and groundwater.	Surface water drainage system. Diffusion into ground.	100052 SITE STANDARDS 202325 SPILL RESPONSE SOP COSHH RESPOSITORY ON WATERPEDIA (see related documents) 100044 WASTE MANAGEMENT STANDARD 100082 MANAGING SUBSTANCES HAZARDOUS TO HEALTH STANDARD 100088 FIRE SAFETY STANDARD 200711 NON INFRA POLLUTION RESPONSE SOP 204344 EMS SPILL KIIT SOP 100048 STANDARD FOR THE ACCEPTANCE AND STORAGE OF CHEMICALS USED ON WASTE WATER NON INFRA SITES	Low	Medium	Low as management techniques are used

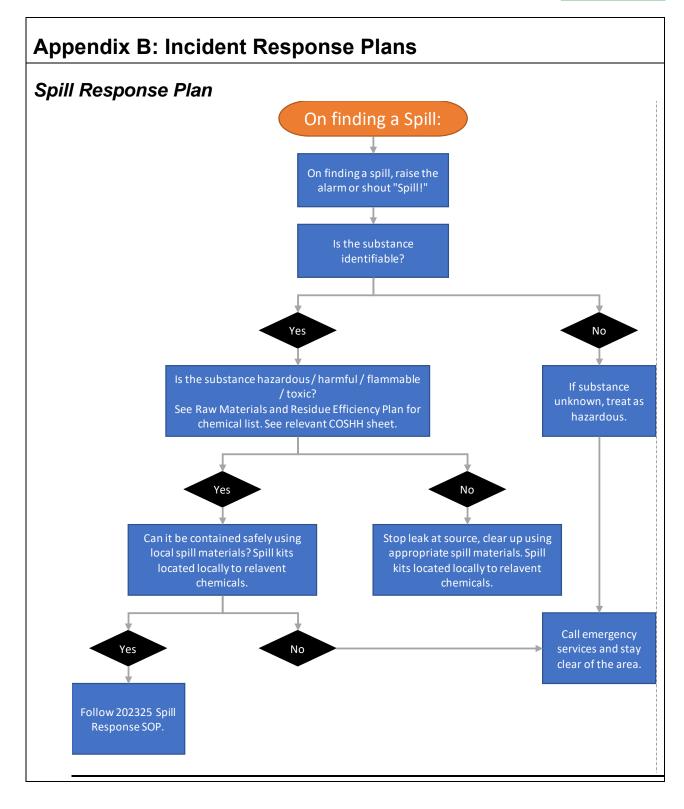
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What harm can be	caused?		Managing the Risk	Assessing the r	isk	
Source	Receptor	Pathway	Controls	Likelihood of exposure	Consequence	What is the residual risk?
What has the potential to cause harm?	What is at risk? What do I wish to protect?	How can the hazard get to the receptor	Risk Mitigation	How probable is this contact?	What is the harm that can be caused?	What is the risk that still remains?
			In the event a tank contains a substance which is unknown, seek to identify what the substance is. If possible, remove the substance from the site to an appropriately permitted hazardous waste facility. Any evidence of spillage or leakage would be reported to the Site Manager or his deputy for appropriate remedial action. All operators are trained in spillage management and spill kits are available on site. STW have a 24hr external response service for emergency clean-up.			

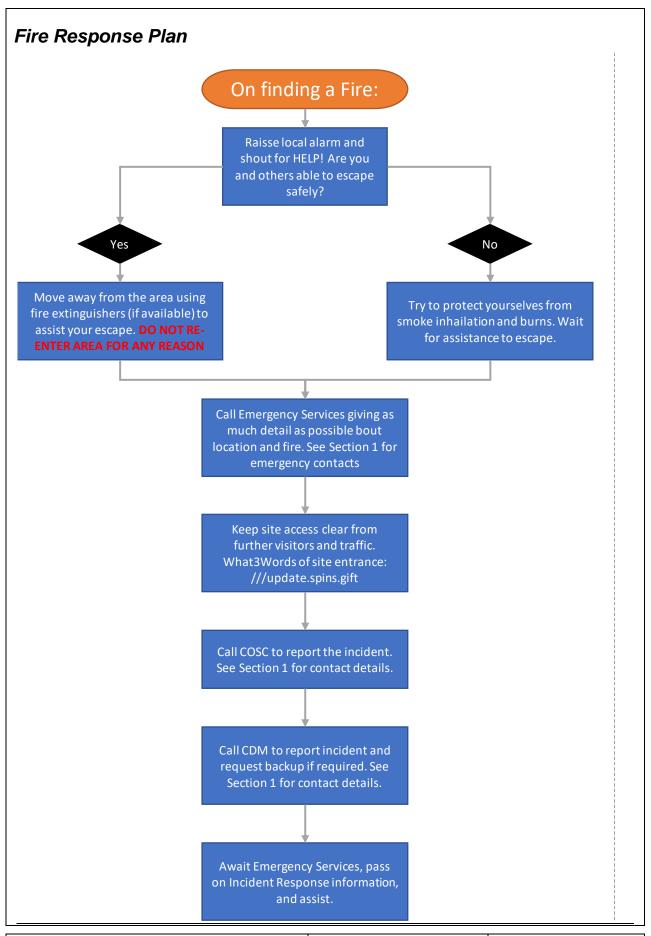
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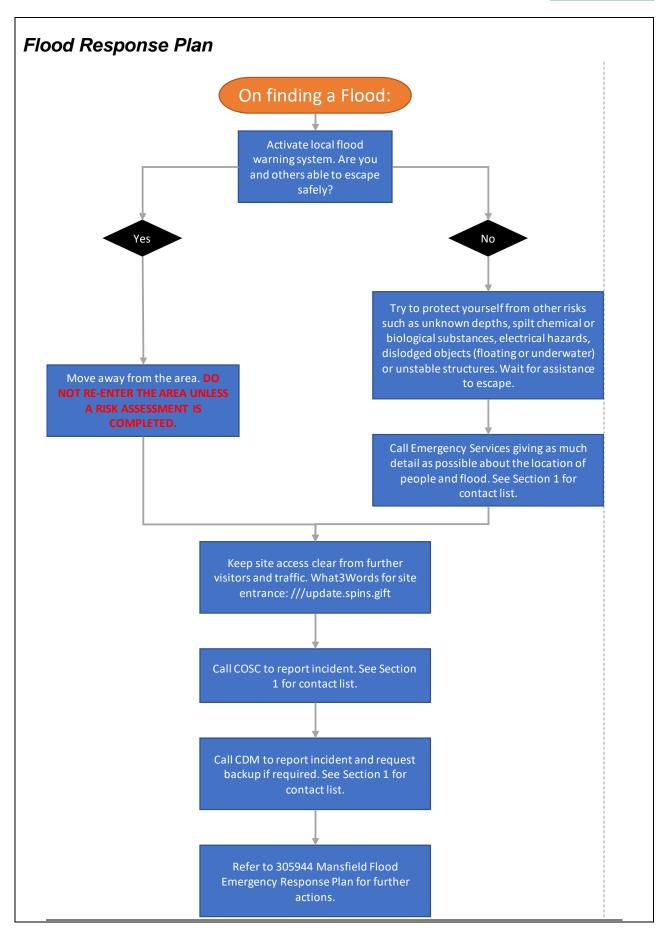
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Records, Appendices & References

The following documents can be used in conjunction with this Accident and Incident Management Plan:

- Mansfield Site Infrastructure Plan
- 305944 Mansfield Flood Emergency Response Plan
- Mansfield Fire Risk Assessment (See red folder on site)
- 202325 Spill Response SOP
- DSEAR Risk Assessment (See related links on Waterpedia)
- Schedule 5 (See related links on Waterpedia)
- 100088 Fire Safety Standard

Docum	ent Contro	l & Governan	ice:				
Owners Na	ame	Simon Whitehous	e				
Owners Ro	ole	Bioresources Com	Bioresources Compliance Lead				
Date of Ne	xt Review						
Version	Date	Reviewers names	Approvers names	Reason for Review	Supported doc changes	Communications	
1.0	22/12/2021			Document Creation			
2.0	xx/xx/xx						
Summary of	fchanges						
1.0	Document Crea	tion					
2.0							

The only valid version of this LOP is the electronic version held in Waterpedia.

If printed, it is uncontrolled.

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