

ACCIDENT MANAGEMENT PLAN

1.0 Purpose

The Accident Management and Emergency Plan outlines the actions that will be taken should there be an incident on site that could affect the environment. The aim of the plan is to prevent, or where possible minimise, the environmental impact of any incident should it occur. Potential hazards / scenarios for emergencies and environmental accidents or incidents at *Dunbia Cross Hands* have been assessed and the controls reviewed. The method of this assessment used to detail consequences if the event was to occur, current safeguards in place, risk assessment and controls implemented to reduce or mitigate environmental impact was completed for *Dunbia Cross Hands* and recorded in Table 1 below.

2.0 Scope

The entire site

3.0 Responsibility

It is the responsibility of the Environmental Manger to;

- a) Ensure the Accident Management Plan is implemented
- b) Review the plan annually

4.0 References

EVP002 Emergency Preparedness and Response Procedure
 EVP004 Spillage Procedure
 EVP003 Notification of spills and emissions
 EVP034 Penstock Gate Operation Procedure

5.0 Training record against Procedure

	Name and signature	Date
Trainee		
Trainer		

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6.0 Plan

Categories used in the Plan

Severity of Incident Categories

	Category	Definition
1	minor	<ul style="list-style-type: none"> nuisance on site only (no off-site effects) no outside complaint
2	noticeable	<ul style="list-style-type: none"> noticeable nuisance off-site e.g. discernible odours minor breach of Permitted emission limits, but no environmental harm one or two complaints from the public
3	significant	<ul style="list-style-type: none"> severe and sustained nuisance, e.g. strong offensive odours or noise disturbance major breach of Permitted emissions limits with possibility of prosecution numerous public complaints
4	severe	<ul style="list-style-type: none"> hospital treatment required public warning and off-site emergency plan invoked hazardous substance releases into water course with ½ mile effect
5	major	<ul style="list-style-type: none"> evacuation of local populace temporary disabling and hospitalisation serious toxic effect on beneficial or protected species widespread but not persistent damage to land significant fish kill over 5 mile range
6	catastrophic	<ul style="list-style-type: none"> major airborne release with serious offsite effects site shutdown serious contamination of groundwater or watercourse with extensive loss of aquatic life

Likelihood / Probability of Occurrence Categories

Level	Descriptor	Description
5	Certain	Likely to occur on many occasions
4	Likely	Will probably occur but is not a persistent issue
3	Medium	May occur occasionally
2	Low	Do not expect it to happen but it is possible
1	Rare	Can't believe that this will ever happen

Severity (S) and Likelihood (L) scores assigned to each potential event are then multiplied together to provide a total risk assessment score (R). Scores are considered to be high risk if a score of 10 or greater is obtained and low risk if a score of less than 10 is obtained. Controls have also been identified in this assessment to reduce the severity of impact should an event occur, and safeguards have been identified to reduce the probability of the event occurring.

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Accident or abnormal release Worst Case scenario:	Spillage of chemicals
Likelihood of occurrence:	Low
Severity of Incident Categories	Significant
Consequence of occurrence:	Release of chemical to wastewater producing a change in pH
Actions taken or proposed to minimise the chances of it happening:	All cleaning operators trained in the use and handling of chemicals. All chemical storage areas appropriately bunded.
Action planned if the event does occur:	Refer to: - Spillage procedure Penstock Gate Operation Notification of spills and emission Notification to Welsh Water 08000853968 or Mike Hughes 07778559954 mike.hughes@dwrcymru.com Notification to NRW Pollution hotline 0300 065 3000 and Ieuan Davies Ieuan.Davies@cyfoethnaturiolcymru.gov.uk on 0300 065 3228

Accident or abnormal release Worst Case scenario:	Release of Ammonia/Refrigerant
Likelihood of occurrence:	Low
Severity of Incident Categories	Catastrophic
Consequence of occurrence:	Release of Ammonia /Refrigerant to atmosphere and waters.
Actions taken or proposed to minimise the chances of it happening:	Refrigeration system is a totally closed system, with leak detection procedures in place.
Action planned if the event does occur:	Refer to: - Emergency Preparedness and Response Procedure Notification of spills and emission Penstock Gate Operation Notification to Welsh Water 08000853968 or Mike Hughes 07778559954 mike.hughes@dwrcymru.com Notification to NRW Pollution hotline 0300 065 3000 and Ieuan Davies Ieuan.Davies@cyfoethnaturiolcymru.gov.uk on 0300 065 3228

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Accident or abnormal release Worst Case Scenario:	Spillage of oils
Likelihood of occurrence:	Low
Severity of Incident Categories	Significant
Consequence of occurrence:	Contamination of ground/surface waters.
Actions taken or proposed to minimise the chances of it happening:	All oil stored in bunds, visually inspected weekly, tested every three years Oil separators in place.
Action planned if the event does occur:	Refer to: - Spillage procedure Penstock Gate Operation Notification of spills and emission Notification to NRW Pollution hotline 0300 065 3000 and Ieuan Davies leuan.Davies@cyfoethnaturiolcymru.gov.uk on 0300 065 3228

Accident or abnormal release scenario:	Loading/Unloading on site
Likelihood of occurrence:	Low
Severity of Incident Categories	Significant
Consequence of occurrence:	Contamination of ground/surface waters.
Actions taken or proposed to minimise the chances of it happening:	Bunding of all tanks Tanker loading and unloading Procedure
Action planned if the event does occur:	Refer to: - Spillage procedure Penstock Gate Operation Notification of spills and emissions Notification to NRW Pollution hotline 0300 065 3000 and Ieuan Davies leuan.Davies@cyfoethnaturiolcymru.gov.uk on 0300 065 3228

Accident or abnormal release scenario:	Failure of underground pipelines and sumps
Likelihood of occurrence:	Low
Severity of Incident Categories	Significant
Consequence of occurrence:	Release of wastewater to groundwater
Actions taken or proposed to minimise the chances of it happening:	Inspection and testing of underground pipelines and sumps.

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Action planned if the event does occur:	Refer to: - Notification of Environmental Incidents Procedure Non-Conformance, Preventative and Corrective Action Procedure Notification to NRW 0300 065 3263 and Ieuan Davies Ieuan.Davies@cyfoethnaturiolcymru.gov.uk
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Accident or abnormal release scenario:	Failure of Bunds
Likelihood of occurrence:	Low
Severity of Incident Categories	Significant
Consequence of occurrence:	Release of contents to waters
Actions taken or proposed to minimise the chances of it happening:	Inspection and testing of bunds, tested every 3 years.
Action planned if the event does occur:	Refer to: - Notification of Environmental Incidents Procedure Spillage procedure Notification of spills and emissions Notification to Welsh Water 08000853968 or Mike Hughes 07778559954 mike.hughes@dwrcymru.com Notification to NRW Pollution hotline 0300 065 3000 and Ieuan Davies Ieuan.Davies@cyfoethnaturiolcymru.gov.uk on 0300 065 3228

Accident or abnormal release Worst Case scenario:	Fire
Likelihood of occurrence:	Low
Severity of Incident Categories	Catastrophic
Consequence of occurrence:	Release of fire waters to wastewater of surface waters.
Actions taken or proposed to minimise the chances of it happening:	Fire detection system Appropriate storage of materials. Firewater to be contained on site or in balance tank.
Action planned if the event does occur:	Refer to: - Emergency Preparedness and Response Procedure Spillage Procedure Penstock Gate Operation Notification to NRW Pollution hotline 0300 065 3000 and Ieuan Davies Ieuan.Davies@cyfoethnaturiolcymru.gov.uk on 0300 065 3228

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Accident or abnormal release scenario:	Operator Error/Misuse of procedures
Likelihood of occurrence:	Low
Severity of Incident Categories	Dependent on procedure
Consequence of occurrence:	Potential environmental consequences, dependent on procedure.
Actions taken or proposed to minimise the chances of it happening:	Training, with refresher training every three years.
Action planned if the event does occur:	Operator evaluation

Accident or abnormal release scenario:	Vandalism
Likelihood of occurrence:	Low
Severity of Incident Categories	Significant
Consequence of occurrence:	Dependent on nature of vandalism
Actions taken or proposed to minimise the chances of it happening:	Security Checks Secure perimeter
Action planned if the event does occur:	Refer to: - Notification of Environmental Incidents Emergency Preparedness and Response Procedure Notification of appropriate authorities

Accident or abnormal release scenario:	Effluent Treatment Plant malfunction
Likelihood of occurrence:	Low
Severity of Incident Categories	Significant
Consequence of occurrence:	Release of untreated effluent to sewer
Actions taken or proposed to minimise the chances of it happening:	Effluent plant serviced under the preventative maintenance programme
Action planned if the event does occur:	Balance tank will hold wastewater until malfunction rectified. Refer to: - Emergency Preparedness and Response Procedure Spillage Procedure Penstock Gate Operation

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Accident or abnormal release scenario:	Power Failure Pump @ effluent sump
Likelihood of occurrence:	Low
Severity of Incident Categories	Significant
Consequence of occurrence:	Potential contamination of ground and surface water
Actions taken or proposed to minimise the chances of it happening:	Backup generator, drain covers and spill kits on site. Yard surface concrete.
Action planned if the event does occur:	Contact for Generator: Aggreko UK Ltd, Seaway Drive, Port Talbot. SA12 7BT. Tel: 01639 821414. email PortTalbot@aggreko.co.uk Refer to: - Emergency Preparedness and Response Procedure Spillage Procedure Notification to NRW Pollution hotline 0300 065 3000 and Ieuan Davies leuan.Davies@cyfoethnaturiolcymru.gov.uk on 0300 065 3228

Accident or abnormal release scenario:	Surface Water Contamination
Likelihood of occurrence:	Low
Severity of Incident Categories	Up to catastrophic dependent on volume and duration
Consequence of occurrence:	Contamination of surface waters, pond and river Gwilli.
Actions taken or proposed to minimise the chances of it happening:	Surface water discharge pipe valve inspected daily Only authorised and supervised openings of discharge valve
Action planned if the event does occur:	Refer to: - Emergency Preparedness and Response Procedure Notification of Environmental Incidents Spillage Procedure Penstock Gate Operation Procedure Notification to NRW Pollution hotline 0300 065 3000 and Ieuan Davies leuan.Davies@cyfoethnaturiolcymru.gov.uk on 0300 065 3228

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Accident or abnormal release scenario:	Waste Contamination
Likelihood of occurrence:	Low
Severity of Incident Categories	Minor
Consequence of occurrence:	Inappropriate segregation of waste
Actions taken or proposed to minimise the chances of it happening:	Training, with refresher training every three years.
Action planned if the event does occur:	Refer to: - Waste disposal procedure

Accident or abnormal release scenario:	Surface Water Contamination
Likelihood of occurrence:	Low
Severity of Incident Categories	Up to catastrophic dependent on volume and duration
Consequence of occurrence:	Contamination of surface waters, pond and river Gwilli.
Actions taken or proposed to minimise the chances of it happening:	Surface water discharge pipe valve inspected daily Only authorised and supervised openings of discharge valve
Action planned if the event does occur:	Refer to: - Emergency Preparedness and Response Procedure Notification of Environmental Incidents Spillage Procedure Penstock Gate Operation Procedure Notification to NRW Pollution hotline 0300 065 3000 and leuan Davies leuan.Davies@cyfoethnaturiolcymru.gov.uk on 0300 065 3228

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Accident or abnormal release scenario:	Release of CO₂ via spillage or leakage
Likelihood of occurrence:	Low
Severity of Incident Categories	Significant
Consequence of occurrence:	CO ₂ is a greenhouse gas, being released into the atmosphere
Actions taken or proposed to minimise the chances of it happening:	Alarm installed at tank which will sound if there is a drop in pressure. Pipework inspected on a periodic basis as part of the sites PPM. Air Products to inspect tank February 2019.
Action planned if the event does occur:	Refer to: - Emergency Preparedness and Response Procedure Notification of Environmental Incidents Notification to NRW Pollution hotline 0300 065 3000 and leuan Davies leuan.Davies@cyfoethnaturiolcymru.gov.uk on 0300 065 3228

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