UWF Grid Connection
Environmental Management Plan (2019)

Tab 6
Environmental Emergency Response Procedures

October 2019

ERP **No.**	**Environmental Emergency Response Procedures**
GC-ERP-01	Oil/Fuel Spillage
GC-ERP-02	Significant Pollution Occurrence in Local Surface Waters
GC-ERP-03	Frac-Out during Drilling Works at W8 or W9

GC-ERP-01	**Environmental Emergency Response Procedure**

Oil/Fuel Spillage

Work Sections/Locations

All construction works areas

Responsibility of	Role/Duty
Construction Manager	• Ensuring that all personnel are trained in emergency procedure for oil/fuel spillage. • Ensuring that all construction site plant, machinery and vehicles are equipped with spill kits. • Alerting the Environmental Clerk of Works immediately of the oil/fuel spillage.

General

- The Construction Manager will ensure that appropriately trained staff and necessary containment equipment is on site to allow immediate control of any spills.
- Contractors will be required to check all fuel and hydraulic lines, service, and document all machinery prior to the commencement of construction.
- Spill-kits and hydrocarbon absorbent packs will be stored in the cabin of each vehicle and at the designated fuel storage areas in the temporary compound. All operators will be fully trained in the use of this equipment.
- Spill response apparatus and infrastructure will be inspected on a regular basis to ensure that the kits are fully stocked and materials are of adequate condition, and where this is not the case kits will be replenished or replaced immediately.
- Spill kits will be fitted with break seals and site operatives will be required to notify the construction manager if these seals are broken.
- Spill kits will be maintained at all fuelling and oil storage locations. All mobile fuel and oil bowsers/tankers will have full spill kits, appropriate to their capacity.
- All machines that utilise hydraulic systems, such as excavators, dumpers, and cranes, will have appropriately sized spill kits on board at all times.
- It is the Construction Manager's responsibility to ensure spill kits/material is available as specified.
- All hydrocarbons will be managed appropriately to prevent their potential release to surface or ground water.
- All hydrocarbon containers will be stored in bunds. For above ground tanks, double skinned tanks will be used and all will be externally bunded. All transfer of hydrocarbons will be undertaken in a bunded area.

Procedures in the event of an oil/fuel spillage

This procedure covers the accidental spill of oils that may arise from plant failures, refuelling, etc.:

- On arrival at spill site, assess the situation. If a volatile, flammable material is spilled, immediately warn everyone in the vicinity, control sources of ignition and ventilate the area.
- If possible without risk of personal injury, stop and contain the spillage using the appropriate spill kit (as per material type).
- Have all shores and surface water drains in the area of spillage covered or protected as quickly as possible to prevent pollution.
- Report all spills immediately to the Environmental Clerk of Works and Construction Manager who will mobilize specially trained site personnel to clean up and dispose of residues and clean-up materials in an appropriate manner.
- Spill kit waste materials will be collected from the temporary construction compound by a specialised hydrocarbon and hazardous waste service provider with a valid waste collection permit for reprocessing at an EPA waste licensed facility.

Emergency Spill Response Contact: AM Environmental, Castletroy, Limerick 061-502 095, 087- 265 4081 (24hr)

GC-ERP-02	**Environmental Emergency Response Procedure**
Significant Pollution Occurrence in Local Surface Waters	
Work Sections/Locations	
All construction works areas	
Responsibility of	**Role/Duty**
Construction Manager	• Will inform the Environmental Clerk of Works immediately of any observed issues.
Environmental Clerk of Works	• Will notify an appropriate person in Tipperary County Council.
Incidents involving oil spillage	

In the unlikely event of a significant pollution occurrence in local surface waters relating to the works then the following protocol will be adopted:

- Works will be stopped while an initial investigate takes place, to determine If the source of the pollution is from the works;
- Water quality monitoring will be undertaken visually, and the Construction Manager will inform the Environmental Clerk of Works of any observed issues
- If the source is from the works then the Environmental Clerk of Works will notify an appropriate person in Tipperary County Council.
- If the source is from the works, work will not continue again until the source of the pollution is identified and eliminated.

GC-ERP-03	Environmental Emergency Response Procedure
Frac-Out during Drilling Works	
Work Sections/Locations	
Horizontal Directional Drilling locations - Watercrossings W8 & W9	
Responsibility of	**Role/Duty**
Construction Manager	• Liaising with the Mud Engineer and Drilling Contractor regarding the status of drilling works and the deployment of contingency measures
Mud Engineer	• Supervising water course bed and drilling works, including drilling pressures, implementation of contingency measures

Purpose of Frac-Out Contingency Measures

- Minimize the potential for a frac out associated with horizontal directional drilling activities through the implementation of GC-OCM-16;
- Provide for the timely detection of frac outs;
- Protect the watercourse and the piped water supply attached to the bridge above;
- Ensure an organised, timely, and "minimum impact" response in the event of a frac out and the release of drilling mud.

Contingency Measures

- In the event of break-out occurring in the river bed, the rig will immediately shut off the pumps and the drilling assembly will be pulled off to reduce annular pressures.
- In the event of break-out on the road an excavator will be available to dig a pit to contain fluid with vacuum trucks/pumps available to transfer drill fluid from the containment point back to the recycling point.
- Drilling fluid additives designed to plug the formation will be introduced to the circulation system and let set.