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**SUBMISSION UNDER CONDITION 23 OF PLANNING PERMISSION 1/15/01498/CDM.**

**CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN FOR LAND OFF SPRINGS ROAD, MISSON, DE10 6ET.**

## **1 INTRODUCTION**

### **1.1 Context**

- 1.1.1 This document relates to the proposed exploratory drilling at land off Springs Road, Misson, DN10 6ET.
- 1.1.2 Planning Permission ref. 1/15/01498/CDM was granted by Nottinghamshire County Council on 24 May 2017 to develop a hydrocarbon wellsite and drill up to two exploratory hydrocarbon wells by use of a drilling rig and ancillary works.
- 1.1.3 This document sets out the management plan to be implemented throughout the life of the development as required by Condition 23 of Planning Permission 1/15/01498/CDM. Condition 23 states:

***23. No development shall take place until a Construction Environment Management Plan (CEMP) has been submitted to and approved in writing by the MPA. The CEMP shall incorporate amongst its measures:***

- a. Details of a temporary protective fence to prevent accidental ingress into the surrounding ecological habitats. The fencing shall be erected prior to the commencement of the construction works and shall be retained throughout the life of the development;***
- b. A precautionary working method statement for reptiles based on the methodology set out in 14.6.5 of the Environmental Statement received by the MPA on 28 October 2015;***
- c. Measures to ensure the protection of surface waters during construction and restoration. This shall include measures to prevent the risk of pollution from spillages and the preparation and implementation of an emergency spillage plan;***
- d. Drainage arrangements for the site including measures for the discharge/disposal of potentially contaminated water;***

- e. ***Appropriate containment of potential sources of pollution including the placing of them away from watercourses, drainage systems and surface water flows.***

***The measures contained within the approved CEMP shall be fully implemented for the life of the development.***

*Reason: Details are required to be submitted prior to the commencement of development to ensure that pollution risks are minimised throughout the life of the development in accordance with Policy M3.8 of the MLP.*

- 1.1.4 This CEMP will set out the measures required to comply with this condition and will also specify the environmental standards to which the site shall operate to and the person responsible for ensuring compliance with the measures set out in this CEMP on behalf of IGas.
- 1.1.5 Information on specific environmental management plans and schemes are fully addressed in separate submissions. So to avoid repetition they are not included in this document. They are presented in the following plans and schemes:

<b>Cndtn. No.</b>	<b>Environmental Control</b>
<b>Drill Rig Details</b>	
<b>8</b>	Drill Rig Details (to be approved by MPA prior to Drilling Phase)
<b>Traffic &amp; Transportation</b>	
<b>10</b>	Measures to prevent deleterious material on roads
<b>11</b>	Traffic Management Scheme
<b>Lighting</b>	
<b>13</b>	Lighting Scheme (to be approved by MPA prior to Drilling Phase)
<b>Noise</b>	
<b>15</b>	Drill Rig Noise Mitigation Plan (to be approved by MPA prior to Drilling Phase)
<b>17</b>	Noise Complaint Plan
<b>19</b>	Noise Management Plan
<b>Emissions</b>	
<b>24</b>	Assessment of Rig Emissions (to be approved by MPA prior to Drilling Phase)
<b>25</b>	Scheme for the Monitoring and Management of Air Quality in the SSSI
<b>Ecology</b>	
<b>26</b>	Reptile Habitat Scheme
<b>Dust</b>	
<b>27</b>	Dust Management Plan
<b>Heritage / Archaeology</b>	
<b>28</b>	Ensuring the Heritage Significance of the former Missile Pads
<b>Flooding &amp; Drainage</b>	
<b>34</b>	Surface Water Scheme – Construction Phase
<b>35</b>	Surface Water Scheme – Drilling Phase (to be approved by MPA prior to Drilling Phase)
<b>Flooding</b>	
<b>37</b>	Emergency Flooding Plan

1.1.6 The specific requirements of Condition 23 are addressed in this submission.

## **1.2 Environmental Standards**

1.2.1 The site shall:

- Comply with all relevant environmental legislation, regulation, guidance and good practices;
- Raise environmental awareness throughout the site management team and subcontractors by means of toolbox talks;
- Implement suitable and sufficient controls to aim to achieve zero pollution incidents (emergency spills, water/soil contamination and waste management issues) whilst maintaining an operational work site;
- Implement waste hierarchy in order to prevent waste generation where possible; re-use materials until they cannot be re-used again, recycle waste where practicable; and only dispose of waste if no other options in the hierarchy are possible.

## **2 FENCING**

2.1.1 To prevent accidental ingress into the surrounding retained trees and hedgerows, a 2.5m high hoarding shall be erected prior to the commencement of the construction phase in the location shown on Figure 9 of the Planning Application. The fence shall be maintained in this position for the life of the development to prevent accidental ingress into the surrounding retained trees and hedgerow.

## **3 METHOD STATEMENT FOR REPTILES**

3.1.1 The Method Statement for Reptiles is dealt with in a separate submission.

## **4 MEASURES TO ENSURE THE PROTECTION OF SURFACE WATERS DURING CONSTRUCTION & RESTORATION**

4.1.1 The following methods shall be employed in order to ensure the protection of surface waters during the construction and restoration phases.

## **4.2 Measures to Prevent the Risk of Pollution from Spillages**

### **4.2.1 Storage and Handling of Fuels, Oils and Chemicals**

#### ***Materials Storage***

- 4.2.2 All oils and chemicals shall be stored in either double-skinned tanks or have other primary containment to store 110 % capacity in accordance with condition 33.
- 4.2.3 Spill kits shall be available on site and close to identified pollution sources (e.g. fuel storage areas) and also having due regard to sensitive receptors. Prior to construction commencement, these locations shall be agreed by the Contractor and IGas, and illustrated on the Environmental Risk Map. Spill kit contents will be checked regularly.
- 4.2.4 The Site Manager or nominated person shall ensure that an active inspection and maintenance program will be undertaken on a daily and weekly basis or, if appropriate, when any high risk activities are taking place. The following methods shall be implemented on site;
- all oil containers, secondary containers and vehicles shall be inspected on a daily basis to check for signs of damage, corrosion, bulging, leaks or unauthorised use; and
  - all required maintenance shall be carried out as soon as practicable;

#### ***Refuelling and Liquids Delivery***

- 4.2.5 No refuelling of plant and equipment shall take place without the use of a plant nappy/drip tray and where practicable shall be in designated areas with spill kits available.
- 4.2.6 External fuel or other chemical delivery vehicles shall deliver to designated areas. No refuelling shall take place without the use of a plant nappy/drip tray and shall where practicable be in designated areas with spill kits available.
- 4.2.7 Fuels will be delivered by legislatively compliant tankers.

#### ***Machinery Operations***

- 4.2.8 Construction machinery shall be checked regularly and any routine maintenance to machinery would occur over hard standing within the construction compound or on an alternative suitable impermeable ground cover.

- 4.2.9 Plant, site vehicles and machinery shall be well maintained and any machinery leaking fluids shall be repaired immediately or removed from site as soon as practicable.

***Cement, Concrete and Grout***

- 4.2.10 During the Construction phase, the following measures shall be implemented on site for the management of all cementitious materials:

- any unused cement, concrete or grout shall be removed off site to a suitably licensed waste facility;
- no concrete delivery vehicles shall be washed out on site but returned to the designated batching plant;
- any equipment used in handling or mixing cements and grouts that cannot be taken off site for washing are to be washed using a closed containment system, and the wash water disposed of off-site at an approved facility; and
- any excess concrete not required for the construction works shall be returned to the batching plant, it shall not be stored on site for further use.

***Chemicals and hazardous substances***

- 4.2.11 The Site Manager or nominated person shall ensure that every delivery of required chemicals or hazardous substances is accompanied by appropriate 'Safety Data Sheets' (SDS).

- 4.2.12 To ensure the correct storage and use of the substances the following measures shall be implemented on site;

- all substances shall be stored in the designated storage area, as stipulated by condition 33;
- all containers shall be clearly labelled and fit for purpose with appropriate lids if required;
- the containers shall be regularly inspected for continued integrity;
- spill kits specifically for the use in chemical and hazardous spills shall be located on site;
- all site operatives shall be trained in the use of these substances and emergency procedures.

### **4.3 Preparation and Implementation of an Emergency Spill Plan**

#### ***General Requirements***

- 4.3.1 A detailed Pollution Incident Response Management Plan (PIRMP) shall be prepared by the Contractor prior to the commencement of the construction phase. The plan shall provide emergency response contacts, reporting procedures, and procedures for dealing with all potential pollution incidents during the operations.
- 4.3.2 A pollution incident is any discharge to land, air or water that could cause environmental damage.
- 4.3.3 The PIRMP will:
- Identify key staff and contact details for environmental management and emergency response, including contact details for staff trained in the use of spill kits, booms, land remediation specialists etc.;
  - Provide contact telephone numbers for the emergency services and the Environment Agency Hotline;
  - Provide detailed procedures to be taken in the event of an incident or emergency (including procedures for positioning and movement of plant, use of spill kits, communication etc);
  - Provide details and evidence of training of site staff / plant operators in emergency response procedures, including the correct use of spill kits and booms, etc.
- 4.3.4 Procedures contained within the plan should consider preventative measures, containment, clean up, waste disposal of recovered spilled materials or contaminated soils and clean up kits, and reporting requirements.
- As part of the PIRMP, within the on-site office will be a site layout plan that illustrates:
  - All areas that present a potential pollution source including the locations of car parks, refuelling and fuel storage areas, oil separator equipment, excavations, and any other high risk areas that could give rise to pollution;
  - The location of potential sensitive environmental receptors, including locations of sensitive habitats or species, surface watercourses, drains or culverts (including direction of flow) where pollution may travel to; and

- The location of spill kits and other pollution control or emergency response equipment.

### ***Environmental Reporting and Auditing***

- 4.3.5 A report shall be completed for any environmental incident or emergency or near misses on site.

### ***Summary Sheet for Machinery / Plant Operators***

- 4.3.6 The Contractor shall provide a one page Summary Sheet containing the key information for incident response to be used as a quick reference for any on-site personnel witnessing an incident. A laminate copy of this Summary Sheet will be located within all plant / machinery / on-site vehicles.

### ***Outline Emergency Spill Plan***

- 4.3.7 The following procedure is intended as a guide to inform the Contractor in developing a site-specific spill plan.
1. If possible, identify the source of the spillage and cut-off source, e.g. by closing valve, righting container etc;
  2. Identify where spillage has gone to and / or where it may go to. If spillage is near a watercourse (drainage ditch, burn, river etc) divert spillage away from the watercourses by digging interception trenches or by using absorbent material (spill kit);
  3. Notify all parties in an appropriate order. Notification should be made by one person only whilst the remainder of staff present attend to the spill itself;
  4. If a spill has reached a watercourse the following measures should be applied-
    - a. Place flexible absorbent booms downstream of the contamination within a quiet stretch of water;
    - b. Place absorbent cushions in the water immediately upstream of these booms; and,
    - c. Repeat this process further downstream and remove and replace saturated absorbent material as required.

5. Dig up all contaminated ground immediately / as soon as possible. All contaminated materials should be placed in sealed polythene bags / containers and disposed of appropriately by the Contractor; and,
  6. Complete report on the incident.
- 4.3.8 Key Information to be provided in a clear and concise manner as soon as practicable after the incident:
- what substance was spilled;
  - approximate volume and time of spillage;
  - location of spill (marked on site plan);
  - immediate actions undertaken;
  - proposed ongoing measures required;
  - help required i.e. manpower, machinery, expert advice, disposal, etc.; and
  - whether the spill has reached a watercourse; and
  - who was contacted.

## **5 SITE DRAINAGE ARRANGEMENTS**

### ***Silt Management***

- 5.1.1 The management of silt on site will be essential in minimising local surface water and groundwater pollution. The EA's guidance document recommends the following mitigation measures as potential methods of management. Accordingly, as a minimum, some or all but not necessarily limited to the following principles will be employed on site during the construction phase:
- pump sumps will be used in the excavation works if required;
  - the amount of exposed ground and soil stockpiles will be minimised to prevent excess surface water runoff;
  - vegetation will only be removed from areas that need to be exposed; and
  - stockpiles will be covered;
  - storage bunds and bare ground shall be seeded at the first available opportunity and no later than the end of the first available seeding season;



- silt fences retaining sediments to areas disturbed by the construction process whilst grasslands establish themselves.
- 5.1.2 Silty water will not be discharged to any watercourses or surface water drains unless the water has been suitably treated and complies with the appropriate discharge consent.
- 5.2 Excavations**
- 5.2.1 All excavations will be carried out in conjunction with the Contractor's procedures. The following measures will also be implemented during this phase of the works:
- the management of silt will be implemented as per Section 4.1;
  - no trees or hedgerows, other than those identified, will be removed during the excavation phase; and
  - if required, settlement tanks or lagoons will be constructed for surface water runoff.
- 5.2.2 The Site Manager or nominated persons will be responsible for carrying out site checks on a daily basis. These are to be recorded in the Site Diary ensuring that the excavation phase of works is not causing detrimental effects on the environment.

## **6 MATERIAL STORAGE, STOCKPILES AND EXPOSED GROUND**

- 6.1.1 The storage of construction material and waste materials on site will be managed but not limited to the following ways:
- all stockpiles will be located at a suitable distance away from watercourses and ditches on site to prevent any silty water entering these surface water routes;
  - in particularly dry conditions, stockpiles will either be covered or dampened down to prevent windblown dust;
  - all stockpiles will be stored on level ground in designated area(s) of the site;
  - waste will be stored in appropriate containers to be removed off site to a suitably licensed facility;

- discharge heights during delivery of materials will be kept as low as possible to prevent windblown dust; and
- any contaminated material should be removed off site or will be covered and stored in an area of the site which is bunded and benefits from impermeable surfacing or held in a suitable container.

6.1.2 The stockpiling of materials will be controlled by the Site Manager or nominated person so as not to cause excessive storage quantities being held on site at any one time.

## **7 DISSEMINATION OF ENVIRONMENTAL PLANS AND TRAINING**

7.1.1 The Site Manager is to ensure that the existence of this CEMP and its associated Management Plans and Schemes are made known to all personnel on site. A site induction shall address the issues in this CEMP. Other sessions, by way of toolbox talks, shall be held over the life of the development to raise awareness of the environmental issues affecting the site and how they should be tackled.

## **8 CONCLUSIONS**

8.1.1 Overall, the measures proposed in this Document are considered appropriate and deliverable Emergency Flooding Plan for Springs Road, Misson, DN10 6ET.

## APPENDIX 01

### Environmental Site Rules

1. All chemicals to be stored in accordance with Condition 33 and only in proper designated storage areas. All containers must be returned to designated areas.
2. All diesel deliveries and refuelling is to be carried out with great care to ensure spillages do not occur. Always use drip trays.
3. Waste must not be allowed to accumulate, and must be disposed of in the skips provided.
4. No waste is to be placed outside of the site boundary.
5. Where dedicated skips are provided for materials such as metal only, masonry only, timber only etc., these are only to be used for disposal of the respective material, NO mixing of material will be carried out where waste segregation alternatives are possible and practicable.
6. For all waste leaving site, copies of waste carrier licences, disposal facility licences and permits and waste transfer notes must be made available to site management.
7. The burning of any waste materials onsite is prohibited.
8. In the event of any fuel or chemical spillage advise the Site Manager immediately for instruction on the respective cleaning up / emergency procedure.
9. Environmental issues will form a regular part of Toolbox Talks.
10. Should you have any queries or be in any doubt, please contact site management.
11. No access is permitted into tree/hedgerow protection areas or adjustment/alteration of protective fencing without specific authorisation from IGas.

