

The Drax Power (Generating Stations) Order

Land at, and in the vicinity of, Drax Power Station, near Selby, North Yorkshire

Outline Construction Environmental Management Plan (Submitted for Deadline 6)



The Planning Act 2008
The Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009 – Regulation 5(2)(q)

Drax Power Limited

Drax Repower Project

Applicant: DRAX POWER LIMITED

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1 INTRODUCTION

1.1 Project Background

- 1.1.1. Drax Power Limited (the Applicant) has made an application for a Development Consent Order (DCO) to the Secretary of State. The DCO, if granted, will authorise the Applicant to construct and operate the repower of up to two existing coal-fired units (known as Unit 5 and Unit 6) with gas. In order to repower with gas, a new gas pipeline needs to be constructed connecting the Existing Drax Power Station Complex to the National Gas Transmission System (NTS). Drax Power Station is located near Selby in North Yorkshire.
- 1.1.2. The Proposed Scheme has been subject to an Environmental Impact Assessment (EIA) and therefore has been assessed for likely significant environmental effects from construction, operation and decommissioning activities as reported in the Environmental Statement (ES) (Document Reference 6.1, Examination Library Reference APP-069 to APP-130). Mitigation proposed as a result of the findings in the ES is captured in the Environmental Statement Commitments Register (Document Reference 6.5) submitted as part of the DCO Application. The commitments register confirms that a CEMP (Construction Environmental Management Plan) will be prepared and implemented during construction of the Proposed Scheme, which will set out how construction will be managed in order to deliver the environmental mitigation measures and how environmental issues that arise will be handled to ensure compliance with relevant legislation and with environmental policies. The CEMP will be prepared in substantial accordance with this document, the outline CEMP, which is submitted in support of the DCO Application.

1.2 Purpose of this Document

- 1.2.1. The purpose of a Construction Environmental Management Plan (CEMP) is to address the construction environmental management requirements attached to a Development Consent Order. The final CEMP will govern the construction, and a Decommissioning Environmental Management Plan (DEMP) will be implemented for the decommissioning of the Proposed Scheme (which will cover similar elements to the CEMP). It should be noted that the final CEMP could take the form of multiple CEMPs, applicable to the relevant part of the Proposed Scheme to be constructed.
- 1.2.2. This outline Construction Environmental Management Plan (CEMP) provides a framework from which the final CEMP will be produced. It has been prepared in support of the Environmental Statement (ES) and the wider DCO application.
- 1.2.3. A requirement is included in Schedule 2 to the draft DCO which stipulates that the Applicant must submit the CEMP, to be prepared substantially in accordance with this outline, for approval to Selby District Council prior to the commencement of construction. The DCO also requires that construction works for the Proposed Scheme (or the part to which the CEMP relates) must be carried out in accordance with the approved CEMP.
- 1.2.4. Assuming the DCO is granted, the Applicant will appoint a Principal Contractor (PC) (or lead contractor for each work package) who will have demonstrated that they are competent in managing the effects of construction on the environment. This is important as it will be the duty of the PC and its subcontractors to follow the environmental management and



mitigation arrangements prescribed in the CEMP, to minimise environmental risks and ensure compliance with any relevant requirements of the DCO. This outline CEMP will be handed over to the PC for tendering and onward implementation of the measures prescribed within.

- 1.2.5. The CEMP document will be prepared to align with established good management practices, and the commitments register (see Table 2.1 and 2.2) and will set out the overarching principles for environmental management of the construction. It has been split into sections to outline:
 - General environmental management requirements (section 2).
 - Specific environmental management requirements for the construction phase (section 3).
- 1.2.6. This CEMP is a live document and it will be periodically reviewed and updated by the PC (or lead contractor delegated to each work area) every six months, or as required, to satisfy all contractual requirements and ensure environmental risks are managed and mitigated throughout. In particular, it will be updated to take account of the following:
 - Changes in design.
 - Changes in external factors such as regulations and standards.
 - Any unforeseen circumstances as they arise such as new protected species or new archaeological finds and provide a mitigation framework for this.
 - Good construction practices and ensure these are adopted and maintained throughout.
 - The results of audits and inspections.
 - Learning points from environmental near misses and accidents
- 1.2.7. All construction works must be undertaken in accordance with the approved CEMP for those works. An approved CEMP will be required for each work package in the DCO, and the draft DCO allows flexibility for a CEMP to be submitted for part of a numbered work, a numbered work or for multiple numbered works.
- 1.2.8. This outline CEMP reflects environmental requirements identified to date, which have either been actioned or have been identified for action as the Proposed Scheme progresses.

1.3 Project Overview

Project Description

1.3.1. Drax is proposing to repower up to two existing coal-fired units (known as Unit 5 and Unit 6) with gas – this means the existing coal-fired units would be decommissioned and replaced with newly constructed gas-fired units utilising some of the existing infrastructure. Each unit, which is a new gas fired generating station in its own right, would comprise combined cycle gas turbine ("CCGT") and open cycle gas turbine ("OCGT") technology. Each new gas generating unit would also use existing infrastructure, including the cooling system and steam turbines, and would each have a capacity of up to 1,800 MW, replacing existing units each with a capacity of up to 660 MW. Each unit would have a battery storage capability (subject to technology and commercial considerations). Should both units be repowered, the new gas-fired units / generating stations would have a total combined capacity of up to 3,800 MW.



- 1.3.2. Drax is seeking consent for the flexibility to construct a single generating station with an 1,800 MW generating capacity or to construct two generating stations each with an 1,800 MW generating capacity. The construction of each new gas fired generating station would repower either one or both of Unit 5 and Unit 6. The decision as to whether Drax constructs one or two gas fired generating stations and when, is a commercial decision that can only be taken post any consent being granted.
- 1.3.3. In order to repower to gas, a new Gas Pipeline needs to be constructed from Drax Power Station to the National Gas Transmission System ("NTS"). In addition, an Above Ground Installation ("AGI"), and Gas Receiving Facility ("GRF") are required. A connection to the electrical network would be made via the existing National Grid Substation within the Existing Drax Power Station Complex. Other development includes construction laydown areas, a passing place to enable the construction of the Gas Pipeline and a temporary footbridge during construction.
- 1.3.4. The development being applied for is called the "Proposed Scheme" and is more fully described in Schedule 1 of the draft Development Consent Order (where it is termed the "Authorised Development").
- 1.3.5. The Proposed Scheme includes the construction of a generating station with a capacity of more than 50 MW and accordingly meets the criteria given in the Planning Act 2008 (as amended) ("PA 2008") for being a Nationally Significant Infrastructure Project ("NSIP").
- 1.3.6. As a NSIP, the Proposed Scheme therefore requires a Development Consent Order ("DCO") from the SoS for Business, Energy and Industrial Strategy.

DCO Requirements by Project Component

1.3.7. An outline of the DCO requirements by project component will be inserted into the approved CEMP once finalised.

Current Status

- 1.3.8. The Proposed Scheme is currently at the pre-construction phase. Any known construction work due to be carried out at this stage of the Proposed Scheme is reflected in this outline CEMP. Current construction progress for each phase of the Proposed Scheme is outlined below:
 - The gas turbine generating units will be constructed in stages which are referred to as Stages 1 and 2 in the EIA. During Stage 1, Unit X will be constructed whilst Units 5 and 6 remain operational as coal-firing units until Unit X is ready for connection into the steam turbine. During Stage 2, Unit Y will be constructed while Unit X is operational as a gas-fired unit, and once Unit Y is ready for connection into the steam turbine, the remaining coal-fired unit will be turned off so as to allow the steam turbine to be used for Unit Y.
 - Each construction stage will take approximately 34 months followed by commissioning. The two construction stages will take place consecutively and are expected to be separated by one year, but this could be longer depending on commercial considerations. Overall the construction period will last at least 83 months including commissioning of Unit Y. The Gas Pipeline will be constructed within the first half of this programme (Stage 1). Subject to commercial and technical considerations, battery storage would be installed for both Unit X in Stage 1 and Unit Y in Stage 2.



- The construction of Unit X will commence in 2019/2020 with open cycle gas turbine (OCGT) capability by 2021/2022 and closed cycle gas turbine (CCGT) ready by 2022/2023. If both Unit X and Unit Y are built, the construction of the second unit would commence in 2024 and be completed in 2027.
- The peak period for construction traffic is anticipated to be between months 19 and 22, with up to around 400 car trips per day. A second, lower, peak is anticipated between months 65 and 68, with more than 350 car trips per day. Alongside the CEMP, a Construction Traffic Management Plan and a Construction Worker Travel Plan will be implemented to manage construction related traffic.
- 1.3.9. When the successful PC (or lead contractor assigned to each work area) assumes responsibility for this CEMP they will be required to prepare the CEMP substantially in line with the measures outlined herein, as these will have been considered appropriate as part of the consideration of the DCO Application, given these measures have been assumed for the purpose of the findings in the ES. It will be necessary for the PC to add and amend this revision of the CEMP with information that was not available during the pre-construction phase. These are:
 - Any subsequent changes to construction scope.
 - Inclusion of policy documents.
 - Inclusion of named persons in Table 2-2 (Project Personnel).
 - Development and reference to a detailed Soil Handling Strategy.
 - Update resulting actions from pre-construction contaminated land investigations to be conducted.
 - An update of the Risk Register (Appendix A) to align with the detailed construction methods.
 - Any updates required to meet changes in legislation.
 - Any updates required as dictated by regulatory bodies or the client.

Works Locations and Descriptions

1.3.10. A brief description of the works and their locations are given in Table 1-1 below.

Table 1-1 - Summary Description of work to be undertaken within each Works Area and current progress

Work No.	Title of the works
1	An electricity generating station (Unit X) fuelled by natural gas and with a gross electrical output capacity of up to 1,800 megawatts
2	An electricity generating station (Unit Y) fuelled by natural gas and with a gross electrical output capacity of up to 1,800 megawatts.
3	Up to two battery storage facilities
4	Up to two new gas insulated switchgear banking buildings
5	A natural gas receiving facility
6	Above ground gas installation(s)
7	A gas pipeline
8	Electrical connections



Work No.	Title of the works
9	Temporary construction laydown areas
10	Carbon capture readiness
11	Retained landscaping
12	Decommissioning and demolition of sludge lagoons and construction of replacement sludge lagoons
13	Removal of existing 132 kilovolt overhead line and associated towers and foundations
14	Passing place on Rusholme Lane

1.3.11. Table 1-2 below provides a summary of crossings for the Gas Pipeline. The table refers to "likely technique" in order to provide the Applicant with flexibility should it prove more beneficial to use another method following pre-construction surveys. The confirmed construction technique at each crossing location and reasons for any deviation from the approach shown in Table 1-2 will be shared with North Yorkshire County Council and Selby District Council prior to the commencement of those works.

Table 1-2 - Indicative list of crossings for the Gas Pipeline

Description	Туре	Likely Technique
Crossing off Rusholme Lane (Minor Road)	Minor Road	Open Cut
Field North of Rusholme Lane	Minor Water	Trenchless
Main Road, Drax	Minor Road	
Main Road, Drax	Minor Water	Trenchless
Field West of Main Road	Overhead Electrics	Open Cut
Field South of Carr Lane	Minor Water	Trenchless
Wren Hall Lane	Overhead Electrics	Open Cut
Wren Hall Lane	Minor Road	Trenchless
Field in front of Drax Site	Overhead Electrics	Open Cut

Public Highways

1.3.12. The construction of the Proposed Scheme will require the transportation of large and heavy plant and construction equipment. A Construction Traffic Management Plan (CTMP), including an Abnormal Load Routing Plan, will be prepared and implemented by the PC in order to ensure the minimum level of traffic disruption. An outline CTMP is provided as an appendix to the Environmental Statement (Document Reference 6.2.5.2).



1.3.13. The final CTMP will be submitted to, and approved by, the relevant planning authority pursuant to a requirement in Schedule 2 to the draft DCO, and in consultation with the local highway authority and Highways England. Any new means of access to the highway or alteration of an existing access for construction purposes, which is not already provided for within the DCO, will be submitted to and approved by the relevant planning authority in accordance with the draft DCO.



2 GENERAL ENVIRONMENTAL REQUIREMENTS

2.1 Risks and Opportunities

- 2.1.1. Risks and opportunities identified prior to construction works will be included in the Environmental Risk Register, a template for which is provided in Appendix A. Risks identified will be based on the understanding of the proposed works activities at the time each revision of the CEMP, and reflect the various risks identified in the ES. Control measures will be developed in accordance with legal and contractual requirements.
- 2.1.2. This Risk Register is the main focus for the environmental management of the works as it outlines what aspects have potential to cause significant impact on the environment. It also provides focus to those aspects so that the project team can control and/or influence activities during the works.
- 2.1.3. The Risk Register will be updated on a regular basis by the PC, to be agreed with the client, and as new risks are identified. All activities undertaken on-site will be subject to an environmental risk assessment. Environmental risk assessments will be undertaken by trained staff following a procedure to be approved by the client which will:
 - · Identify potential environmental impacts that can be anticipated.
 - Assess the risks from these impacts.
 - · Identify the control measures to be taken and re-calculate the risk.
 - Report where an unacceptable level of residual risk is identified so that action can be taken through design changes, re-scheduling of work or alternative methods of working in order to reduce the risk to an acceptable level.
- 2.1.4. The results of risk assessments will only be considered acceptable if:
 - The severity of the outcome is reduced to the lowest practicable level.
 - The number of risk exposures are minimised.
 - All reasonably practical mitigating measures have been taken and the residual risk rating is reduced to a minimum.
- 2.1.5. The findings of all risk assessments and in particular, the necessary controls, will be explained to all relevant staff and subcontractors before the commencement of the relevant works using an instruction format to be agreed with the client (e.g. Toolbox Talks).

2.2 Requirements and Consents

Environmental Requirements

- 2.2.1. This Proposed Scheme shall be carried out in accordance with the principles of ISO14001 and the requirements (but not limited to) those listed below along with any relevant legislation:
 - Applicable DCO Schedule 2 Requirements.
 - The Environmental Statement.
 - Client and PC Environmental Policies.
 - T/PR/G17 'Procedures For The Management Of New Works, Modifications And Repairs'.



- T/SP/TR18 'National Grid Gas Specification For Engineering of Pipelines and Installations Operating at above 7 barg'.
- Construction (Design and Management) Regulations.
- 2.2.2. For ease of reference, Table 2-1 will provide a summary of how and where DCO Schedule 2 requirements of relevance to environmental management during construction have been addressed. It will also provide a guide as to how the measures outlined in the Commitments Register will be transposed into the CEMP.

Table 2-1 - DCO Requirements and mitigation commitments of relevance to environmental management during demolition and construction [to be completed prior to construction commencing]

DCO Requirement	Planning condition	Mitigation commitment	Document	Section/comment

Audits and Inspections

- 2.2.3. The appropriate PC and client environmental policies will apply to construction. A list will be included in the approved CEMP.
- 2.2.4. Once construction work commences, internal environmental inspections and audits on the Proposed Scheme will be conducted. Audits will be carried out in accordance with the principles of an ISO14001 Environmental Management System (EMS) to assess the Proposed Scheme's performance and to check compliance with the legal and contractual requirements.
- 2.2.5. With regard to the Gas Pipeline, it is expected that National Grid Gas would carry out audits, to an agreed programme with the Project Manager, throughout the construction phase to assess the implementation of the quality management system for delivery of assets.
- 2.2.6. Environmental inspections will take place in accordance with the EMS to ensure all sites are assessed whilst construction activities are taking place.

Consents

- 2.2.7. A register of consents covering: planning, highway and environmental will be prepared and maintained by the PC to keep track of any progress. This will enable the project team to plan for consents to be applied for and obtained prior to construction work commencing.
- 2.2.8. Further work and surveys required confirming consenting procedures and mitigation measures are dependent on the works area and are detailed in sections 3 and 4 of this CEMP as appropriate.



- 2.2.9. The progress of the preparation, submission and internal approval of the consents identified as being required will be tracked using the consents register.
- 2.2.10. This CEMP will be the overarching document outlining and tracking the delivery and achievement of legal compliance.

Health and Safety

2.2.11. This document provides an overview of the health and safety measures and processes that are likely to be adopted during the demolition and construction phases of the Proposed Scheme. However, is not intended to fulfil any legislative obligations of the PC with regard to occupational health and safety.

2.3 Objectives and Targets

2.3.1. The objective of this CEMP is to ensure all those involved in the construction phase of the Proposed Scheme follow a project specific framework which outlines all environmental impacts associated with implementation of the proposed works activities. It ensures the environmental risks are properly identified and outlines the mitigation to be employed throughout the construction phase of the Proposed Scheme.

2.4 Roles and Responsibilities

- 2.4.1. Personnel with defined environmental responsibilities are detailed in Table 2-2 below.
- 2.4.2. Each responsible individual will sign to confirm that they understand and accept their designated duties and responsibilities. A signed copy will be retained and made available on request. Where there is more than one individual with responsibilities, these personnel will project induction which will confirm acceptance their sian а the of environmental/sustainability responsibilities.

Table 2-2 - Project Personnel

Role	Individual	Responsibilities
Project Manager / Director	TBC	Overall environmental management of the Proposed Scheme, ensuring that all works are carried out in accordance with the CEMP.
Environmental Advisor / Manager	TBC	 Work with programme planners and project managers to ensure consents are embedded within the programme. Monitor submission of consent applications and ensure their timely delivery. Provide input to consultation with consent granting bodies, commitment holders and other third parties. Co-ordinate and manage all required scheduled consents and property notifications. Ensure environmental consents are obtained in line with the programme. Maintain and update the consents register in line with requirements and ensure review of individual deliverables by project specialists.



Role	Individual	Responsibilities
		 Monitor and report progress on consents and commitments. Monitoring construction works including the subcontractors for compliance against Environmental Risk Assessment and method statement control measures. Co-ordination of all environmental documentation. Monitoring environmental training, consultation and implementation of sub-contractor procedures. Attending site HSE committee meetings. Monitoring of all site environmental incidents and ensuring they are reported and investigated. Undertaking site inspections. Accompanying HSE Managers and EA inspections. Advising the Project Manager on the implementation of the EMS. Compliance with duty of care, the Site Waste Management Plan (SWMP) or any permits and/or exemptions. Monitoring and measurement of waste. Communicate sustainability good practice, innovation and targets to the project team and supply chain. Keep a record of key performance indicators (KPIs). Act as the main point of contact on environmental matters relating to the Proposed Scheme.
Environmental Clerk of Works	TBC	 Support the Environmental Manager in delivering the environmental component of the Proposed Scheme. Monitor construction activities and performance to ensure control measures are effective. Maintain full records of the progress of the Environmental Works. Implement an auditable environment record filing system. Maintain regular contact and liaison with the Environmental Specialists. Carry out further monitoring as required by the CEMP.
Ecological Clerk of Works	ТВС	 Monitoring and management of the ecological-related control measures Pre-construction ecological checks for habitats and species Implement and maintain exclusion zones Oversee provision of ecological mitigation measures Provide ecological information for site inductions, toolbox talks and meetings



Role	Individual	Responsibilities
Engineering Manager	TBC	 Raise innovation at team meetings. Capture good ideas/innovations/lessons learnt. Track progress of improvements and support if needed. Grow the culture of innovation by effective means of communication e.g. presentations, site visits, engagement with our supply chain. Ensure environmental issues and constraints are included in individual designs, in accordance with environmental design procedures.
Planning Manager	ТВС	 Plan works to avoid sensitive times of year. Plan works to avoid working unsociable hours. Plan into the project consents/surveys required and the time scales in which they take to obtain.
Construction Manager	TBC	 Advising PC representative on the implementation of the EMS. Monitoring construction works including the subcontractors for compliance against Environmental Risk Assessment and any method statement control measures. Monitoring environmental training, consultation and implementation of sub-contractor procedures. Accompanying site safety, health and environment (SHE) Inspections and any environmental authority inspections. Attending SHE co-ordination meetings.
Works Supervisors / Site Manager	Various	 Ensuring that all site work is carried out in accordance with method statements, task briefings and activity briefings. Ensure that staff under their supervision is aware of their environmental responsibilities. Ensure key risks are identified and brief operatives on environmental topics. Carry out site inspections to identify any environmental issues.
Safety, Health and Environment Advisor / Manager	TBC	 Accompanying SHE Inspections and any environmental authority inspections. Leading SHE co-ordination meetings. Ensure compliance with environmental policies, standards and procedures. Ensure compliance with environmental legislation.
General Operatives	N/A	Ensuring environmental mitigation measures are carried out during the course of their duties, in line with work



Role	Individual	Responsibilities
		 package plans, task briefings and activity briefings. Working considerately with a good working ethic in order to minimise adverse environmental impacts and follow all site rules communicated during briefings and project training sessions. Informing their line management of any environmental issues they have on site, so that these can be communicated to the project management team for further investigation. Attending the project induction prior to commencing work where details of the site environmental rules will be provided.

2.4.3. All employees working on the Proposed Scheme will have a responsibility to ensure that they comply with the EMS.

2.5 Competence, Training and Awareness

- 2.5.1. The PC shall identify the training needs of their employees and subcontractors so that they can implement the requirements of this CEMP into briefings and construction method statements.
- 2.5.2. Specific training needs will be developed for individuals to reflect the work to be carried out on the Proposed Scheme and the significant risks and opportunities identified.
- 2.5.3. The requirement is for all personnel to be aware of their general environmental management responsibilities, and for those whose work may cause, or have the potential to cause, a significant impact on the environment, to receive specific environmental awareness briefings. Environmental awareness will be reinforced through information, such as poster campaigns, environmental/sustainability performance indicator reports and environmental alerts available on-site notice boards.
- 2.5.4. All contractors are responsible for ensuring the competency of their environmental staff. In the event that environmental training is needed for staff, a contractor is responsible for ensuring this requirement is fulfilled. Any training provided to members of the project team will be logged by the project administrator and any certification documents will be produced by the relevant members of staff as evidence that they hold the required competencies.

2.6 Internal Communication

- 2.6.1. Communication on environmental issues within the project team will take place through face-to-face conversation, e-mail and telephone. The project management team will be made aware of all environmental issues at the earliest possible opportunity. Communication on environmental matters will be maintained through construction meetings chaired by a member of the SHE project team or a senior manager.
- 2.6.2. Environmental issues identified by any member of the project team will be communicated to the relevant personnel to ensure any required actions are carried out. Dissemination of



information will take place in several forms, as appropriate, including meetings to discuss particular project issues, method statements, task/activity briefings, toolbox talks, inductions, environmental notices and environmental alerts. Records that these have been carried out and who received them will be recorded on briefing registers and collated by the project administrator. The Environmental Advisor/Manager will provide updates to the supervisors at each site to ensure policies and procedures on display are up to date. Supervisors will also be notified of any legislation changes which may affect working practices on site.

2.6.3. Any unexpected finds/occurrences by site staff can be reported to their supervisors, which will then give notification to a member of the SHE project team. A SHE representative will advise on the course of action to be taken.

2.7 External Communication

Communication with the Applicant

2.7.1. The PC will liaise regularly with the Applicant and its representatives regarding the programme of works, nature of the operations and methods to be employed to minimise adverse environmental impacts. This will include progress meetings as well as the production and submission of progress reports which will cover environmental/sustainability issues. The PC will also supply all relevant supporting information and documentation to the client for matters concerning consents and environment in accordance with the appropriate timescales.

Statutory Authorities and Non-Governmental Organisations

- 2.7.2. A stakeholder communications plan that includes community engagement before work commences on site should be developed and implemented.
- 2.7.3. In the event of stakeholder liaison being required with local authorities or Non-Governmental Organisations (NGOs), the PC will identify the requirement and seek authorisation from the applicant to undertake the task. Where consultation is required, a representative from the applicant will be invited to attend alongside the relevant PC personnel.
- 2.7.4. Project staff will keep an archive of any e-mail correspondence between themselves and statutory authorities and NGOs concerning the activities taking place. In the event that any complaints are received via statutory authorities or NGOs a log of correspondence and complaints will be kept up to date by the PC.

Public Relations

- 2.7.5. The PC will not communicate with residents unless approval has been granted by the client. Contact with landowners for surveys on third party land will be in accordance with client procedures and in accordance with signed agreements where relevant.
- 2.7.6. A minimum of 14 days prior notification by letter drop to those properties likely to be directly impacted before works are due to commence will be adhered to. The letter will outline where exactly the works are taking place, what activities are involved, timescales for the work and potential impacts. The process for distributing letters to the public is as follows:
 - Draft letter written by PC.
 - Draft letter submitted to the client for approval.



- Final letter returned to the PC with appropriate distribution list.
- Letter delivered to residents a minimum of 14 day prior to works commencing.

Complaints Procedures

- 2.7.7. As part of the site set-up process, site notice boards will be erected, maintained and clearly visible to third parties. A telephone number for environmental complaints will be published local to the site. The SHE officer will be responsible for dealing with any complaints and will have the appropriate authority to resolve any issues that may occur. Should they be required, both the SHE officer and the site managers 'out of hours' telephone numbers will be available.
- 2.7.8. The SHE officer will maintain a close liaison with the Local Authority Environmental Health Officer (EHO) at all times.
- 2.7.9. Should any unforeseen event occur within the construction site that has the potential to cause off-site pollution then the SHE officer will immediately notify the EHO by phone and email. As far as possible, notice will be issued to the EHO for dealing with an unforeseen activity which may give rise to a particular problem.
- 2.7.10. During any site work, if any complaints are received directly to the PC or its subcontractors, the client will be notified as soon as is practicable but within twelve hours of the complaint being received. It will be the responsibility of the PC's Site Manager to brief any staff responsible for unacceptable working conduct in relation to worksite neighbours whilst working on the Proposed Scheme.

Worksite Security

- 2.7.11. The PC will maintain a 24-hour helpline during construction. Signage will be provided on site hoardings to inform the public of the helpline number for reporting security incidents or concerns. The PC will follow up security incidents and concerns reported and will arrange implementation of further measures required.
- 2.7.12. Construction worksites will be under the control of the PC who has a statutory duty to prevent unauthorised access to the site. The client will require its PC to carry out site specific assessments of the security and trespass risk at the project site and implement appropriate control measures, which will include:
 - Maintenance and retention of the existing full perimeter security fence (temporary fences may be used in certain areas, such as for short term occupation of areas).
 - Site lighting to be used at site perimeters where required to provide a well-lit route for the passing public, e.g. to avoid shadows cast by the site hoarding on surrounding footpaths, roads and amenity areas.
 - 24-hour security guard coverage to main worksites, with patrols of site and perimeter areas, and site gates manned at all times during work hours and closed and locked when there is no site activity.
 - Closed-circuit television (CCTV) (or similar security surveillance system),infrared surveillance and alarm systems where required.
 - Special security measures for worksites at risk of trespass by children, including communications initiatives to local schools to warn of dangers, and involving schools in response to incidents involving their pupils.



- Consultation with local crime prevention officers to agree security proposals and to identify any foreseeable security problem), with regular liaison to review security effectiveness and response to incidents.
- Immobilisation of plant out of hours, removing or securing hazardous materials from site, securing fuel storage containers and preventing unauthorised use of scaffolding by enclosing base of scaffolding and removing ladders when work is not in progress, and locking access equipment.

2.8 Records and Documents

2.8.1. The CEMP is the principal operating document for environmental management during the construction of the Proposed Scheme. Client and PC procedures define the general course of action to manage environmental issues on the Proposed Scheme. Any relevant records or documentation supplementary to the CEMP form part of the EMS for the Proposed Scheme. These are highlighted in the relevant sub-categories of the works locations (refer sections 3).

2.9 Method Statements

- 2.9.1. Method statements will be completed by the PC or sub-contractor by trained engineers or other appropriately experienced personnel, in consultation with on-site staff and, where necessary, environmental specialists. Their production will include a review of the environmental risks and commitments, so that appropriate control measures are developed and included within the construction/demolition process.
- 2.9.2. Method statements will be reviewed by the PC or sub contractor's appointed Environmental Manager and, where necessary, by an appropriate environmental specialist (e.g. ecologist). As a minimum, method statements will contain the following:
 - Location of the activity and access/egress arrangements.
 - Work to be undertaken and methods of construction.
 - Plant and materials to be used.
 - Labour and supervision requirements.
 - Health, safety and environmental considerations.
 - Any permit or consent requirements beyond those already obtained (including the DCO).

2.10 Incident Response

- 2.10.1. An Incident Response Plan will be developed to highlight the potential pollution receptors specific to each works location and the activities taking place there. Each document will be in place within the first month of construction activities commencing, and will be available for viewing and be briefed to the workforce on site. They will be updated at least every six months. The key components of each Incident Response Plan be:
 - A brief scope of works taking place on site.
 - Types of environmental incident that have the potential to occur (however low the risk).
 - Types of hazardous material likely to be present on site.
 - A list of pollution receptors and maps showing their location relation to the site.
 - The procedure for responding to environmental incidents, reporting them and investigation (including spill or leak events).
 - Key contact numbers for reporting of environmental incidents.
 - Recommendations to help reduce the likelihood of environmental incidents.



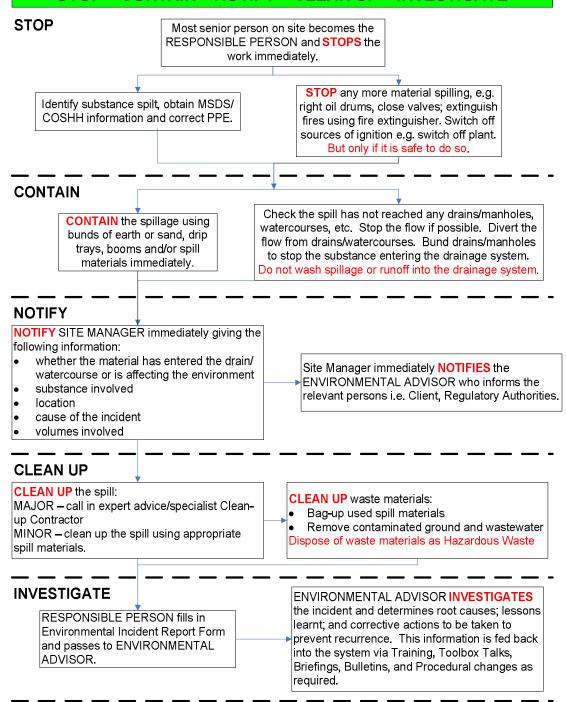
2.10.2. In the event of a spill or leak, the following process will be followed. This will be included in the incident response plan, and this will be briefed to the workforce and displayed on site notice boards.



EMERGENCY SPILL RESPONSE PROCEDURE

What to do if you find a spillage of any substance on site.

STOP - CONTAIN - NOTIFY - CLEAN UP - INVESTIGATE



SPILLAGE TYPE

MAJOR Cannot be controlled; pollution has entered or could enter a drain or watercourse.

Report to Site Manager/Environmental Advisor immediately.

MINOR Can be controlled, pollution has not entered, and cannot enter a drain or watercourse



3 CONSTRUCTION PHASE – PROPOSED SCHEME ENVIRONMENTAL MANAGEMENT PLANS

3.1 Introduction

3.1.1. This section of the CEMP outlines specific environmental management in relation to the construction of the Proposed Scheme. The structure of this section is broken down into the relevant environmental topics, with each topic setting out specific issues and environmental management measures for all work elements.

3.2 Air quality and Dust Management Plan

- 3.2.1. This section outlines the potential sources of air pollution created by construction works and the methods of mitigation proposed to limit these impacts which will be adopted. The following provides an outline of the processes which shall be employed in order to reduce dust and exhaust emissions during construction/demolition. This section constitutes the sitespecific Dust Management Plan.
- 3.2.2. Construction/demolition activities associated with the greatest potential for dust generation are:
 - Earthworks including excavation of topsoil, handling on site and deposition.
 - Handling and storage of materials (including loading and unloading).
 - Wind blow across disturbed/exposed site surfaces and materials.
 - Mechanical operations such as crushing, drilling, concrete mixing and cutting.
- 3.2.3. Best practicable means (BPM) will be employed to minimise the risk of adverse effects from construction/demolition dust and causing nuisance or damage to flora and fauna. Specific control measures for limiting nuisance dust and exhaust emissions during construction may include the following:
 - General Communication:
 - The name and contact details of person(s) accountable for air quality and dust issues should be displayed on the Site Boundary. The head or regional office contact should also be displayed.
 - All dust and air quality complaints should be recorded and causes identified.
 Appropriate remedial action should be taken in a timely manner with a record kept of actions taken including of any additional measures put in-place to avoid reoccurrence.
 The complaints log should be made available to the local authority on request. Any exceptional incidents that cause dust and/or air emissions, either on- or off-site should be recorded, and then action taken to resolve the situation recorded in the log book.
 - Site Management:
 - All dust and air quality complaints should be recorded and causes identified.
 Appropriate remedial action should be taken in a timely manner with a record kept of actions taken including of any additional measures put in-place to avoid reoccurrence.
 - The complaints log should be made available to the local authority on request.



 Any exceptional incidents that cause dust and/or air emissions, either on- or offsite should be recorded, and then the action taken to resolve the situation recorded in the log book.

Monitoring:

- Daily on-site and off-site inspections should be undertaken, where receptors (including roads) are nearby to monitor dust. The inspection results should be recorded and made available to the local authority when asked. This should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100 m of site boundary, with cleaning to be provided if necessary.
- The frequency of site inspections should be increased when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions.
- Dust deposition, dust flux, or real-time PM₁₀ continuous monitoring locations should be agreed with the Local Authority. Where possible baseline monitoring should start at least three months before work commences on site or, if it is a large site, before work on a phase commences.

Preparing and Maintaining the Site:

- Plan the site layout so that machinery and dust causing activities are located away from receptors, as far as is practicable.
- Where practicable, erect solid screens or barriers around dusty activities or the site boundary that are at least as high as any stockpiles on site.
- Where practicable, fully enclose site or specific operations where there is a high potential for dust production and the site is active for an extensive period.
- Avoid site runoff of water or mud.
- Keep site fencing, barriers and scaffolding clean using wet methods.
- Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site cover appropriately.
- Where practicable, cover, seed or fence stockpiles to prevent wind whipping.

Operating Vehicle/Machinery and Sustainable Travel:

- o Ensure all vehicle operators switch off engines when stationary no idling vehicles.
- Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable.
- A Construction Logistics Plan should be produced to manage the sustainable delivery of goods and materials.
- A Construction Worker Travel Plan that supports and encourages sustainable travel (public transport, cycling, walking, and car-sharing) will be provided in line the DCO requirement.

Operations:

- Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems.
- Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate.



- Use enclosed chutes and conveyors and covered skips.
- Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.
- Ensure equipment is readily available on site to clean any dry spillages, and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.
- Waste Management:
 - Avoid bonfires and burning of waste materials.
- Measures Specific to Demolition:
 - Ensure effective water suppression is used during demolition operations. Hand held sprays are more effective than hoses attached to equipment as the water can be directed to where it is needed. In addition, high volume water suppression systems, manually controlled, can produce fine water droplets that effectively bring the dust particles to the ground.
 - Avoid explosive blasting, using appropriate manual or mechanical alternatives.
 - Bag and remove any biological debris or damp down such material before demolition.
- Measures Specific to Earthworks:
 - Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable.
 - Use Hessian, mulches or tackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable.
 - Stockpile surface areas should be minimised (subject to health and safety and visual constraints regarding slope gradients and visual intrusion) to reduce area of surfaces exposed to wind pick-up.
 - Where practicable, windbreak netting/screening should be positioned around material stockpiles and vehicle loading/unloading areas, as well as exposed excavation and material handling operations, to provide a physical barrier between the Application Site and the surroundings.
 - Where practicable, stockpiles of soils and materials should be located as far as possible from sensitive properties, taking account of the prevailing wind direction.
 - During dry or windy weather, material stockpiles and exposed surfaces should be dampened down using a water spray to minimise the potential for wind pick-up.
- Measures Specific to Construction:
 - Ensure sand and other aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place.
 - Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery.
 - All construction plant and equipment should be maintained in good working order and not left running when not in use.



- Measures Specific to Trackout:
 - Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the site. This may require the sweeper being in frequent use.
 - Avoid dry sweeping of large areas.
 - Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.
 - Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable).
 - Access gates to be located at least 10 m from receptors where possible.
- 3.2.4. The PC will have responsibility on a day to day basis for determining if either the nature of the activities on site or weather conditions would be likely to result in the unacceptable transfer of dust off site. In cases where this is anticipated, action will be taken to minimise emissions, including the application of appropriate control measures, or if necessary, the temporary suspension of works.
- 3.2.5. Good site management practices during the construction/demolition works will help to prevent the generation of airborne dust. It will be the responsibility of the PC/DC and site managers to ensure that sufficient precautionary measures to limit dust generation are carried out through appropriate method statements, taking account of the risks and mitigation measures outlined in this CEMP.

3.3 Noise and Vibration

- 3.3.1. This section outlines the potential sources of nuisance noise created by construction of the Proposed Scheme, and the methods of mitigation that will be adopted to limit these impacts.
- 3.3.2. Best Practicable Means (BPM) will be adopted during construction/demolition to manage noise and vibration as outlined in BS 5228 "Noise and Vibration Control on Construction and Open Sites". It details the legislative background to noise control, along with the recommended procedures for effective liaison between developers, site operators and local authorities. Methods of how to minimise the impact of site noise on workers and local residents are also provided.
- 3.3.3. The main mitigation measure to limit impacts of nuisance noise on human receptors is to ensure noise levels do not exceed the noise thresholds set out in the ES and to undertake noise monitoring during construction to make sure these agreed thresholds are not breached.
- 3.3.4. During the construction phases, it is expected that standard working hours will be Monday to Friday from 07:00 to 19:00; personnel will work a 9 hour period within this timeframe. Start-up and shutdown activities would take place on the Existing Drax Power Station Complex during a 1 hour window either side of standard working hours. Therefore, all construction worker related trips will arrive on site between 6.00 and 10.00 and depart the site between 16:00 and 20:00. On Saturdays, standard working hours will be 07:00 and 13:00.



- 3.3.5. It is likely that some construction activities and deliveries will be required to be 24 hours at certain times. Where work is required outside of core construction hours this will be agreed in advance with Selby District Council with the exception of those activities already routinely carried out on the Power Station Site. These are as follows:
 - Construction activities taking place within buildings/structures
 - Deliveries and movement of materials and equipment within the current power station site boundary
 - Audits and inspections of the site including equipment and materials
 - Setting up of lighting, scaffolding and barriers for future works
 - · Team briefs and meetings, etc
 - Electrical installation works
- 3.3.6. If works are required outside of core construction hours then method statements and risk assessments will be required to be submitted to the Local Authority for approval. Further, the PC will be required to inform potentially affected residents and occupiers. The residents will also be provided with a point of contact for any queries or complaints.
- 3.3.7. The PC and all sub-contractors working on-site have a general duty to take all reasonably practicable measures to minimise nuisance from noise and vibration that has the potential to impact on the local community or environment. To achieve this and avoid the potential for construction works to give risk to consequences that would otherwise be statutory nuisances, BPM as defined in section 79(9) (a) of the Environmental Protection Act 1990 will be used, as follows:
 - Appropriate selection of plant, construction methods and programming. Only plant conforming with relevant national and international standards, directives or recommendations on noise or vibrations emissions will be used.
 - Construction plant will be operated and maintained appropriately, having regard to the manufacturer's written recommendations or using other appropriate operation and maintenance programmes which reduce noise and vibration emissions.
 - All vehicles will be switched off when not in use.
 - Approved routes and programming for the transport and construction materials, spoil
 and personnel to reduce the risk of increased noise and vibration impacts due to the
 construction of the Proposed Scheme.
 - Vehicle and mechanical plant used for the purpose of the works shall be fitted with effective exhaust silencers, where practicable. These will be maintained in good working order and operated in such a manner as to be minimise noise emissions. The contractor shall use plant items that comply with the relevant EU/UK noise limits applicable to all equipment.
 - Ancillary pneumatic percussive tools would be fitted with mufflers or silencers as recommended by the manufacturer.
 - Ancillary plant such as generators, compressors and pumps would be positioned so as to cause minimum noise disturbance (e.g. as far away as practicable from residential receptors). If necessary, temporary acoustic barriers or enclosures would be provided.
 - The positioning of construction plant and activities to minimise noise at sensitive locations.
 - Equipment that breaks concrete by munching or similar, rather than by percussion, shall be used as far as is practicable.



- Where practicable, rotary drills actuated by hydraulic or electrical power shall be used for excavating hard materials.
- The use of non-reciprocating construction plant where ever practicable.
- The use, where possible, of effective sound reducing enclosures.
- The use, where possible, of noisy work at times which minimise disturbance; and
- To prevent risk of damage to adjacent structures, demolition and construction activities will be carried out in accordance with Part 2 of BS7385:1993 (Evaluation and Measurement for Vibration in Buildings).
- Inherently quiet plant items will be selected, wherever practicable. Acoustic lagging and low noise trims will be fitted to all pipe-work and noise generating valves.
- Standard 2.2 m high site hoarding should be erected along the Gas Pipeline boundary.
- Acoustic enclosures will be considered for plant items where practicable, not overlooking smaller plant items such as compressors and pumps; measures will be set out in the CEMP.
- When non-normal and emergency operations lead to noise levels in excess of the agreed planning limits, the operator will inform the local authority and residents as soon as practicable of the reasons for these operations, and the anticipated emergency period.

3.4 Biodiversity

- 3.4.1. Relevant works to protect/mitigate impacts on ecology and biodiversity will be outlined in the CEMP as well as the Landscape and Biodiversity Strategy (the final form of which must be submitted pursuant to a requirement in Schedule 2 to the DCO)). The final Landscape and Biodiversity Strategy will be informed by the completion of a pre-construction ecological constraints survey to confirm the ecological status of the worksite areas prior to demolition and construction works commencing. Appropriate regard for the protection of local habitats and protected species during the construction works will be included within the CEMP and the Landscape and Biodiversity Strategy.
- 3.4.2. North Station Wood and the connecting woodland to the north west of Development Parcel B will be protected by a 15 m buffer, The rectangular section of woodland to the south of Development Parcel A will also be protected by a 15 m buffer. A 10 m buffer will be enforced around Woodcock Wood to safeguard the habitat and the tree roots from excavation damage that could result from the construction of the pipeline. Where possible construction equipment should be stored outside of this buffer.
- 3.4.3. General measures to protect against damage and disturbance during construction or demolition activities will be as follows:
 - 224 m of hedgerow is proposed for removal in Development Parcel A. This is to facilitate construction laydown and car park access. As far as is practicable, work compounds and access tracks will not be located in, or adjacent to, areas that maintain habitat value or are within areas supporting protected species.
 - Clear demarcations to fence off construction footprints to prevent plant machinery and personnel damaging or disturbing retained habitats and/or areas that may support protected species. Sheer sided excavations greater than 50 cm deep will be securely fenced and escape ramps fitted to minimise the likelihood of incidental capture of mammals such as badger and otter.



- It is proposed that 47 m of hedgerow will be removed to facilitate construction access of the GRF. A further 30 m (worst case scenario) of hedgerow removal is proposed along Wren Hall Lane which will allow for access for the purposes of Pipeline Construction. During construction, the working width will be minimised as far as possible, to reduce impacts and losses.
- Dust mitigation measures will be implemented (in accordance with section 3.2) to minimise dust deposition on adjacent areas of habitat.
- Briefings and instruction will be given to contractors regarding the biodiversity issues associated with the site and protocols and contingency plans will be established to deal with incidents should they arise including in relation to storage of potentially dangerous materials.
- Sensitive vegetation clearance of methodologies would be followed to minimise the risk of incidental mortality of small mammals and widespread amphibian and reptile species. Where possible, all vegetation clearance prior to construction should take place between September and February (depending on climatic conditions in a given year), to prevent damage or disturbance of any nests of breeding birds.
- Where vegetation cannot be removed outside of the nesting season, pre-clearance checks must be undertaken by an experienced ecologist to identify if any birds are nesting within or close to the vegetation due to be removed.
- To ensure legal compliance if a bird nest is found, no works will be undertaken in that area (approximately 10 m in all directions for most bird species) until the young birds are no longer dependent on the nest site.
- Pre-construction surveys to reconfirm the status of otter habitat usage of the Site and surrounding watercourses up to 250 m from the Proposed Scheme.
- Avoidance of any obstructions to established otter paths and access to open water.
- Avoidance of work in the vicinity of otter habitat during the hours of darkness and within the period two hours after sunrise and two hours before sunset March to October (inclusive) and due to the more limited daylight between one hour after sunrise and one hour before sunset November to February (inclusive).
- The marking of, and adherence to, 30 m exclusion zones around any holts and shelters identified as a result of updated survey prior to site clearance and construction activities occurring. If otters are known or suspected to be breeding, the exclusion zone could be extended to at least a 200 m radius. However, it could be reduced to 100 m depending on the nature of the works, topography and natural screening. This will require judgement from an experienced ecologist.
- If breeding was confirmed and exclusion zones of the size set out above were not possible, works would be undertaken in accordance with a European Protected Species (EPS) Mitigation licence to derogate the legislation protecting otter (except during periods of active breeding). As part of the licence, appropriate compensation would be provided to ensure that alternative habitat is provided in advance of the impact occurring. This would ensure no net loss in available habitat that may be considered to provide functional linkage for the SAC.
- As a minimum, light spill will be minimised and dark corridors will be maintained to ensure that otters can continue to commute and forage without undue disturbance during construction. In addition, defined site compounds and access roads with slow speed limits, will limit the risk of otter collisions during construction.



- Screening with fencing or planting of thicket-type vegetation to reduce noise and visual disturbance to otter commuting routes during operation, as per the outline Landscape and Biodiversity Strategy;
- The use of trenchless techniques where practicable when cutting through watercourses for the Pipeline Area. Update surveys will be completed prior to any open-cut techniques being employed. These surveys will determine the need for further mitigation to be implemented for otters (see paragraph 5.3.20 of this report).
- The capping of any exposed pipe systems when contractors are off site, and providing exit ramps from any exposed trenches or holes (to prevent otters entering and becoming trapped);
- Screening with fencing or planting of thicket-type vegetation to reduce noise, lighting and visual disturbance to otter commuting routes;
- · Contaminants will not be stored near areas of hydrological sensitivity.
- Existing drainage measures during operation have been proposed in ES Chapter 12 as appropriate for the Power Station Site. The Above Ground Installation area and associated access road will be routed through an appropriate oil separator prior to discharge. Such measures have been assessed as appropriate to negate potential drainage-related water quality impacts (ES Chapter 12, Sections 12.6.51 12.6.53).
- The use of construction best practice measures to avoid pollution including pollution prevention guidance (DEFRA 2016; Ref 23,) would be followed to prevent pollution of water courses by silt or chemicals.
- 3.4.4. Where invasive plant species are found and will be directly affected by the works, special measures must be put in place, in the first instance this means avoiding disturbing the invasive / pest species. These measures will be identified in the working method statements and the Invasive Species Management Plan (or invasive non-native species management strategy) and include:
 - Localised containment of waste to ensure spreading of invasive species does not occur.
 - Excavation and removal, by specialist contractor, to suitably licensed landfill site (least preferred option).
 - Use of appropriate herbicides where necessary.
 - Segregation of weeds using fencing and signage.
 - Cleaning of tools, plant, skips, boots following work in invasive species areas.
- 3.4.5. In the unlikely event that new protected species establish in the construction area during construction, works will cease and an ecologist consulted for advice on how to proceed.
- 3.4.6. A method statement for the protection of the nearby protected areas and protected species including otters and fish will be produced in addition to this CEMP. The method statement for the protection of nearby areas will include a detailed soil management plan (see Appendix B for a draft), and will contain measures to prevent line rush establishing through inappropriate soil handling and to ensure the risk of pollution incidents affecting water quality is minimised. Additional mitigation measures for the protection of European Protected Species including otters can be found in Section 5.3 of the Habitats Regulations Assessment (Document Reference 6.6) and will be incorporated in the final CEMP for submission. Such measures include pre-construction surveys before site clearance is carried out, the avoidance of any obstructions to established otter paths, minimising light spill and the use of exclusion zones if necessary.



3.4.7. A sensitive clearance strategy will be prepared and form part of the CEMP. This will contain measures to avoid the incidental killing or injury of reptiles during vegetation and site clearance.

3.5 Archaeology and Cultural Heritage

- 3.5.1. A review of the sites' potential archaeological, built and cultural heritage interest was completed as part of the ES. This information has been used to inform any further actions required before construction work commences.
- 3.5.2. One field boundary that is likely to be protected under the Hedgerows Regulations Act 1997 borders the site. The boundary comprises of a hedge-lined drain. The location of the field boundary is shown in Figure 8.2 in Chapter 8 (Historic Environment) of the ES (Document Reference 6.1.8, Examination Library Reference APP-076). The drain and the hedge that surrounds it will not be disturbed during the instalment of the pipe trench. The boundary will be demarcated by fencing prior to construction commencing in the affected area. Construction workers will be briefed on the presence of the field boundary through a toolbox talk prior to work commencing in this area.
- 3.5.3. A programme of mitigation has been devised in consultation with the North Yorkshire County Council Planning Archaeologist (NYCC PA). This programme includes a strip, map and record excavation will be undertaken prior to construction at the location of the Above Ground Installation (AGI) (Work Number 6). It also includes a programme of archaeological monitoring (or watching brief) to be undertaken during the excavation of the pipe trench, easements and also during ground moving activities associated with the installation of the temporary compound/laydown area (Development Parcel A / carbon capture readiness reserve space), the gas receiving facility (GRF) and the passing place at the Rusholme Lane Area.
- 3.5.4. A written scheme of investigation for this fieldwork will be produced. The WSI (including the strip, map and record excavation and watching brief) are secured by a requirement in Schedule 2 to the draft DCO.

3.6 Landscape and Visual Amenity

- 3.6.1. The following mitigation measures, as outlined in the ES, will be implemented during the construction phase in order to specifically limit impacts on landscape and visual amenity of the surrounding area:
 - The retention and management of existing vegetation as outlined in the Landscape and Biodiversity Strategy (Document Reference 6.7), the final form of which is secured under a requirement in Schedule 2 to the DCO.).
 - Planting, hard landscaping and other mitigation substantially in accordance with the Landscape and Biodiversity Strategy (Document Reference 6.7).
 - The impact of the development on existing trees would be reviewed by an arboriculturalist to determine the condition and quality of trees and the extent root protection areas. Current best practice should be followed including:
 - British Standard (BS) 5837:2012 Trees in relation to design, demolition and construction – Recommendations.



- National Joint Utilities (NJUG) Guidelines for the Planning, installation and Maintenance of Utility Apparatus in Proximity of Trees.
- Energy Network Association Technical Specification 43-8, Issue 4 2015.
- Working areas would be offset from existing and retained landscape features and associated habitat.
- Temporary storage of topsoil and any other material considered of value for retention. Where practical stores would be sited to screen the construction works.
- The use of agreed site access points.
- Maintenance of tidy and contained site compound.
- Where feasible, perimeter planting will be undertaken in advance of the works to be effective on completion of the construction works.
- Where practicable storage of topsoil will take place, with siting, to screen and/or provide a physical buffer between the construction works and more sensitive receptors.
- Temporary protection (in accordance with BPM) of any boundary vegetation to be retained.
- The design and layout of site construction areas will reduce adverse impacts arising from temporary security fencing and lighting.
- The removal of all temporary structures and stockpiles when no longer required.
- Spreading of topsoil, reseeding and planting within the Project Site and adjoining areas that are to be reinstated as soon as possible after sections of work are complete.
- Management of all reinstated area(s) in accordance with a 25 year aftercare plan detailed in the outline Landscape and Biodiversity Strategy (Document Reference 6.7) to help ensure full and successful establishment of the planting in the opinion of the planning authority.
- The prompt reinstatement of temporary construction areas when no longer required, notably upon completion of the Gas Pipeline installation.

3.7 Contaminated Land and Groundwater

- 3.7.1. A phase 2 ground investigation will be undertaken at the site prior to construction, which will further define the exact nature of ground conditions. These investigations are required to be carried out by a requirement in Schedule 2 to the draft DCO.
- 3.7.2. Professional standards and guidance relating to contamination will be consulted to provide advice on best practice mitigation measures which will be employed during the construction/demolition phase.
- 3.7.3. The PC will produce a risk assessment and written scheme detailing how to deal with the contamination of any land, including groundwater. During the production of the written scheme, consultation with the applicant will take place and be approved by the Planning Authority prior to commencement of construction. Once agreed, any mitigation, management or remediation set therein will be carried out during construction. More generally, work will also be undertaken in accordance with the following:
 - Compliance with the mitigation measures set out in the following documents:
 - Protection of Workers and the general public during the development of contaminated land (HSE 1991).
 - o If applicable, a guide to safe working on contaminated sites R132 (CIRIA 1996).
 - Defra's construction code of practice and a materials management plan.



- Construction workers will wear appropriate personal protective equipment (PPE) for the nature of works being undertaken. This will involve standard site PPE, plus overall, gloves and eye protection.
- Eating, drinking and smoking will be limited to a designated 'clean' area of the site.
- Site welfare facilities will be made available.
- All workers will be required to wash their hands and remove overalls/boots when moving from 'dirty' to 'clean' areas of the site.
- There will be no access to construction areas by the general public.
- The site will be secured to avoid unauthorised access and contact with contaminated soil or groundwater.
- Provision of hardstanding for construction plant.
- Use of sediment traps, cut-of ditches.
- Covering of stockpiles.
- A soil management plan will be provided (a draft of which can be found in Appendix B).
- The provision of bunds and bunds and emergency spill kits.
- The CEMP should include a soils and earthworks control plan and a water control and pollution plan.
- 3.7.4. In the case that unexpected contamination showing visual or olfactory evidence is uncovered during construction, the following procedure will be applied:
 - Stop work immediately.
 - Report the discovery to the construction manager.
 - Seal off area to contain the spread of contaminants.
 - · Clear the area to ensure that there is nothing that could cause fire or explosion.
 - Contact the applicant once it is confirmed that contamination is found.
 - Arrange for testing to be carried out and agree changes to the existing contamination strategy.
 - Record details of the incident, including photos and relevant information on the Environmental Incident Report Form.
- 3.7.5. Any material which is excavated and free from visual and olfactory evidence of contamination will reported to site management and stockpiled and tested for metal (and other determinants) for reuse on site. Any soils which are considered to be contaminated hotspots (either identified through testing or through visual or olfactory evidence of contamination on site) will be removed and disposed of by a suitably licensed carrier or treated on-site (with approval from the EA).
- 3.7.6. Any contaminated land excavated that requires removal will be disposed of by a licensed carrier to an appropriate site with the necessary permits to accept the material. Wherever possible, priority will be given to sending all contaminated soils to licensed soil washing facilities rather than sending to landfill.
- 3.7.7. All water from dewatering activities shall either be transported off site by a suitably licensed contractor or treated on site. Any proposed discharges to existing land drains (or other surface water bodies) will be undertaken in accordance with the requirements of the EA Regulatory Position Statement on temporary water discharges from excavations.
- 3.7.8. Where soils are imported onto the site then they shall be subject to testing to ensure contaminated soils are not being brought onto the site.



- 3.7.9. Precautions will be undertaken in accordance with EA's Pollution Prevention Guidance to ensure that silt laden runoff, arisings or chemicals are not allowed to enter watercourses. Measures will include, testing of arisings to see whether they are suitable for reuse on site, siting stockpiles well away from watercourses, covering stockpiles in inclement weather, use of impermeable liners and use of fixing agents.
- 3.7.10. Construction activities will seek to minimise the requirement to disturb, remove or dispose of contaminated land. They will also seek to minimise the introduction of pollution pathways. This will include appropriate testing, analysis, production of test reports and subsequent segregation of potentially contaminated materials through use of non-permeable membrane barriers and storage vessels. If contaminated land becomes mobilised this will be covered to prevent rainwater from washing contaminants into water systems.
- 3.7.11. During construction, if piling is required to the depth of the secondary aquifer, a Foundation Works Risk Assessment will be undertaken and appropriate mitigation measures agreed with the EA in order to manage potential pollution pathways. This assessment and the measures will be in line with the National Groundwater and Contaminated Land Centre's report NC/99/73 on "Piling and penetrative ground improvement methods on land affected by contamination guidance on pollution prevention."
- 3.7.12. Water inflows to excavated areas will be minimised by the use of lining materials, good housekeeping techniques and by the control of drainage and construction materials in order to prevent the contamination of ground water. Site personnel will be made aware of the potential impact on ground associated with certain aspects of the construction works to further reduce the incidence of accidental impacts.
- 3.7.13. Measures will be taken to avoid/minimise the potential for fuel and chemical spills. A spill response procedure will also apply on-site (refer section 2.9).

3.8 Surface Water and Groundwater

- 3.8.1. Minimising the risks associated with water pollution from construction activities will be highlighted in workforce briefings at each site. Across the project worksites, the following general actions will be taken to protect surface waters:
 - Site infrastructure will be designed in accordance with EA Pollution Prevention Guidelines (https://www.gov.uk/government/collections/pollution-prevention-guidance-ppg) (withdrawn, but still relevant and followed as good practice) and industry best practice, including
 - CIRIA 113 Control of Groundwater for Temporary Works.
 - Environmental Good Practice on Site, CIRIA.
 - o CIRIA C532- Control of Water Pollution from Construction Sites.
 - BS 6031: 2009 Code of Practice for Earthworks.
 - BS 8004: 1986 Code of Practice for Foundations.
 - Pollution Prevention Guide (PPG) 1 general guide to the prevention of water pollution.
 - PPG 2 Above ground oil storage tanks.
 - PPG 5 Works in, near or liable to affect watercourses.
 - PPG 6 Working at construction and demolition sites.



- Where the works pass over a designated watercourse, temporary consent in the form of Ordinary Watercourse Consent will be applied for and obtained prior to commencement of construction in accordance with Section 23 of the Land Drainage Act 1991;
- Oil storage will be undertaken in accordance with the Control of Pollution (Oil Storage) (Wales) Regulations 2016. Storage tanks will be located on an impervious base provided with bund walls to give a containment capacity of the greater of 110 % of the largest tank volume within the bund or 25% of the total storage capacity of all tanks within the bund. All valves and couplings will be contained within the bunded area.
- Any surface water which has the potential to be contaminated by hydrocarbons (e.g. from car parks), which are used during the construction phase, to be passed through oil interceptor(s) prior to discharge.
- Measures will be taken to ensure that no leachate, or any surface water that has the potential to be contaminated, will be allowed to enter directly or indirectly into any water course, underground strata or adjoining land.
- Provisions will be made so that all existing drainage systems continue to operate such as use strategically placed soil bunds so that drainage catchments are not diverted or altered.
- If necessary, temporary drainage routes/silt fences will be constructed (of geo-textile).
- Water inflows to excavated areas will be minimised by the use of lining materials, good housekeeping techniques and by the control of drainage and construction materials in order to prevent the contamination of ground water. Site personnel will be made aware of the potential impact on groundwater and surface water associated with certain aspects of the construction works to further reduce the incidence of accidental impacts.
- Refuelling of construction vehicles and equipment will be restricted to a designated area with properly designed fuel tanks and bunds and suitable operating procedures;
- All static plant and any hazardous materials stored at the Power Station Site will be located within specifically designed areas with an impermeable base and with secondary containment designed to contain 110% of the maximum stored material (in accordance with EA PPG 2).
- Drainage of these areas will incorporate oil separators designed and manufactured in accordance with BS EN 858-1 to ensure no contaminated runoff enters the surface water sewer or drains to a watercourse.
- A detailed emergency response plan will be prepared which will be enacted in the event of a spill of hazardous material to minimise the risk of environmental impacts.
- Construction access roads and compound areas will be designed to ensure no increased flood risk or silt production. The development will be completed in line with a detailed Surface Water Drainage Scheme, to be submitted in substantial accordance with the Outline Surface Water Drainage Strategy (section 6.0 of the Flood Risk Assessment (Document Reference 6.8, Examination Library Reference APP-136), which will take into account the findings of the Flood Risk Assessment submitted as part of the DCO Application. The Surface Water Drainage Scheme is secured by a requirement in Schedule 2 to the draft DCO.
- Provision of wheel wash facilities. Runoff from wheel wash facilities will be collected and removed or treated prior to discharge.
- If deemed necessary, measures such as temporary drainage routes silt fences and silt bunds will be constructed to prevent heavily silted discharge to surface waters and to attenuate high flows.



- The British Standard Code of Practice for Earthworks BS 6031:1981 and British Standard Code of Practice for Foundations BS 8004:1086 contains detailed methods that will be adopted during construction.
- Provision of settlement tanks or lagoons for surface water runoff generated in the site to allow sediment to settle before water is discharged to a water feature.
- Use of water on the Proposed Scheme will be limited to use in welfare facilities, concrete washout facilities, mixing of concrete (when not using pre-mixed) and damping down of dust, therefore the opportunities for water reduction are minimal. Where practicable welfare facilities will be procured that provides water harvesting, push-stop taps and half-flush toilets. If there is sufficient provision on site for rainwater collection this will be implemented and used for concrete washout/mixing of concrete. Operatives will be briefed on efficient water consumption during the project via inductions, toolbox talks and alerts.
- Topsoil and other construction materials will be stored outside the 1 in 100 year (undefended) floodplain extent.
- Appropriate interceptors will be incorporated in the on-site drainage systems.
- Spill containment equipment will be stored on Site.
- Hazardous substances, oil and fuel will be store in bunded areas, which will not be located within 10 m of water bodies or drainage lines.
- Refuelling of machinery will be undertaken in bunded areas, which will not be located within 10 m of water bodies or drainage lines.
- Drip trays used for diesel pumps and standing plant will be regularly maintained to prevent leaks.
- Storage and bunded areas will be constructed of impervious floors and walls with the capacity for the contents of the storage tank and an additional 10% safety margin.
- Construction materials, such as cement, will be mixed in designated areas located away from water bodies and drainage lines.
- No stockpiling and minimal use of machinery within 10 m of any surface water feature or drainage lines.
- Minimise land clearance in the vicinity of surface water features.
- Only removing vegetation when necessary and keep gradients as shallow as possible to prevent large amounts of earth being washed away during periods of heavy rainfall and areas which are exposed will be reseeded or surfaced as soon as practicable.
- Provision of cut off ditches along the perimeter of the site to capture any runoff from the site.
- Using straw bales during works near or within the drains to capture potential increased sediment load and other pollutants.
- Cut off ditches and appropriate drainage system should be used to manage site runoff.
- Minimise period of time required for construction works near/within watercourses as far as practicable.
- Dust management procedures such as damping down and usage of anti-dust netting will be used during demolition works to suppress the creation of dust.
- Perimeter fences and tight control of materials and waste will be implemented during construction works to minimise the risk of debris entering water bodies.
- 3.8.2. In addition to those measures already outlined above, specific measures for the Gas Pipeline construction will include:



- Pre- and post-construction agricultural underdrainage schemes will be designed and installed to an agreed specification to ensure similar surface water flows pre- and post-construction and to ensure no increase in sediment, silt or nutrient runoff.
- A Soil Management Plan (a draft of which is in Appendix B) will be formulated, including a programme of soils de-compaction, loosening and aftercare aligned to the drainage schemes. This will facilitate soil structure recovery and natural drainage pathways to return soil water retention / storage to pre-construction status.
- Care will be taken to ensure that silt laden water does not enter watercourses. This will be done by plugging existing drains, intercepting surface water above the working width and where appropriate by leaving filter strips of unstrapped topsoil along main watercourses / ditches.
- The crossings of the Gas Pipeline with the watercourses will be constructed using trenchless crossing techniques to minimise impact on the watercourses unless such techniques are not appropriate following pre-construction surveys. Where trenchless crossings are not possible, mitigation measures will be employed to address the impacts of open cut installation, taking into account the particular circumstances of the crossing in question, such as ground conditions and ecological quality.
- Topsoil will be replaced over post-construction drains as soon as possible to prevent site water from getting into drains.
- Any de-watering pumping will be undertaken using an appropriately sized pump at such a rate to avoid disturbance or erosion of stream banks.
- If temporary pumping of groundwater in excavations will be required, appropriate consents will be obtained from the Selby Area IDB and the EA.
- The PC will ensure de-watering pipes are carefully positioned and will be required to regularly inspect all pumps, pipes and connections.
- Temporary lagoons, siltation tanks or filter membranes may be considered at sensitive outfall locations or where deeper excavations are proposed.
- Any stockpiled material will be located away from watercourses to avoid pollution runoff and best practice working guidelines will be followed to avoid spillages near watercourses.
- All land drains encountered during trench digging operations will be identified and recorded. An appropriate land drainage scheme (method of permanent reinstatement) will be devised and agreed with the Land Owner/Land Occupier. Where the route of the Gas Pipeline passes under an existing land drain, the usual method of reinstatement is to install a replacement section of land drain with a permanent, rigid support carrying it over the filled-in pipe trench. Where necessary, new lateral and header drains would be laid to new outfalls to replace land drains rendered inoperative by the Gas Pipeline.
- 3.8.3. The construction works will be also undertaken in accordance with the following requirements of the Selby Area IDB:
 - The pipe crossings with a watercourse will be installed a minimum of 1 m below the bed level of this watercourse.
 - The position of each crossing will be marked by marker posts, one on each bank.
 - New outfalls will be set back from the bank and not protrude into the watercourse. The velocity of the discharge will be considered and suitable protection provided to prevent erosion of the bank, where necessary. A marker post will be provided near a new outfall to highlight the presence of the outfall for maintenance operatives.



- Temporary pumping of groundwater in excavations will require a separate consent. The quantity of temporary pumping will be monitored as a payment is likely to be required per cubic metre of pumped water as part of the temporary consent.
- A new discharge consent will be obtained from the Selby Area IDB for any new discharge into the IDB's watercourse.
- Appropriate consent for works in and within the 8 m of the channel of a watercourse will be obtained from the Selby Area IDB.
- No temporary or permanent structures will be placed within 7 m of the edge of watercourses without previous consent from the Board.
- 3.8.4. Again, measures will be taken to avoid/minimise the potential for fuel and chemical spills. A spill response procedure will also apply on-site; as shown in section 2.9.

3.9 Artificial Lighting

- 3.9.1. The site will require artificial lighting during construction to provide a safe working site during hours of darkness. A requirement in Schedule 2 to the draft DCO requires a lighting strategy to be approved and implemented for the purposes of construction of the Proposed Scheme (to be in accordance with the principles set out in Chapter 9 (Biodiversity) and Chapter 10 (Landscape and Visual Amenity) of the ES). General design objectives that will be used to ensure that adverse effects of lighting associated with demolition and construction of the project are minimised are listed below:
 - Use appropriately designed luminaries for the task at hand.
 - The lighting will be designed to reduce unnecessary spill outside the Site Boundary and avoiding unnecessary sky glow. Use louvres and shields to prevent undesirable light break-out.
 - Demolition and construction lighting shall be directed away from all sensitive receptors;
 - Preference shall be given to several, lower lighting units rather than tall, wide beam lighting units to illuminate large areas as it will limit light trespass, glare and sky glow from the plant.
 - Vehicle lights shall be properly directed (conforming to MOT requirements) and lenses must be intact to prevent un-necessary glare and light intrusion.
 - Lighting shall be reduced or switched off when not required for safety purposes. Security lighting shall be kept at the minimum level needed for visual and security protection.
 - If appropriate, the use of infra-red floodlighting and CCTV systems shall be considered for security to reduce the need for visible lighting outside working hours.
 - If and when lighting is required for surveys or early / enabling works or close-down it will be erected and utilised taking due regard for all sensitive receptors (including local residents and ecological receptors such as bats).
 - No lights will shine directly into or onto property that is not within the boundaries of the Site, nor will it cause confusion to operators or drivers of any vehicle.
 - Lighting levels must be sufficient for works to take place without causing unnecessary light pollution or nuisance.
 - Specific working hours, particularly during night working, would be agreed with the Local Authority and the local communities made aware of this.
 - A construction lighting strategy will be prepared.



3.10 Waste Management

Aims and Objectives

3.10.1. The PC/DC and the Applicant are committed to reducing and minimising waste generation and waste to landfill. The production of a Site Waste Management Plan (SWMP), using the WRAP template represents best practice for management of waste at all stages of a construction/demolition project, such as the Proposed Scheme. In practice, this will be a supplementary document to the CEMP that is prepared and maintained by the PC Environmental Manager. An explanation of how the SWMP works and the overarching principles of the SWMP are set out in the following subsections.

Site Waste Management Plan Structure

- 3.10.2. The SWMP is set out in a series of spreadsheets, making it easier to analyse data and provides a structure which is simpler to manage and maintain. Each spreadsheet within the workbook is split into the following areas:
 - Project Homepage.
 - Basic Details.
 - Design or Pre-Construction Phase.
 - Actions.
 - Forecast Waste.
 - Construction Phase.
 - Specify Waste Carriers.
 - · Plan Waste Destinations.
 - Actual Waste Movements.
 - Standard, Good and Best Practice (SGBP) Levels.
 - Compliance.
 - Post Completion.
 - Key Performance Indicators (KPIS).
 - Reporting.

Project Homepage

3.10.3. This provides an overview of the Proposed Scheme in terms of what phase the Proposed Scheme is currently at and where the Proposed Scheme is currently compliant with standard requirements of a SWMP. Additionally, there is an overview of what targets have been set for the project in key areas to manage waste production throughout the construction of the Proposed Scheme.

Basic Details

- 3.10.4. This section provides all the overarching information relating to the Proposed Scheme, including those individuals and stakeholders with key responsibilities for the implementation and management of waste throughout the Proposed Scheme. Here, targets are set such as recycling rates or total waste produced.
- 3.10.5. The targets that have been set for waste management on this Proposed Scheme are as follows:
 - At least 90% of construction waste to be diverted from landfill.
 - At least 95% of excavation waste to be diverted from landfill.



Design

- 3.10.6. The principle designer (PD) will actively seek ways of reducing the volume of waste produced during construction and maximising the ability to reuse / recycle through the design. The designers will assess and document the volume of waste likely to be produced during works by waste type and assess how much of each waste type could be reused, recycled, recovered or disposed of.
- 3.10.7. All the measures assessed during the design phase and how much waste is likely to be produced will be outlined in the Actions and Forecast Waste sections of the SWMP. These sections of the SWMP will be populated prior to construction / demolition work commencing on site when forecasts and waste actions can be discussed with the assigned PC.

Construction

- 3.10.8. During the course of construction and demolition, waste will be produced. There will be five standard waste streams to consider:
 - Waste from vegetation clearance (e.g. cuttings, mulch).
 - Spoil from excavations / site clearance (e.g. soil, stones, existing concrete bases).
 - Demolition Waste (e.g. rubble, concrete, bricks, mixed metals).
 - Construction Waste (e.g. packaging, off cuts).
 - Domestic/Municipal Waste (e.g. from site facilities: canteen, office and toilets).
- 3.10.9. Following the waste hierarchy, efforts will be made to reduce the amount of waste produced and reuse waste where possible. Examples may include:
 - Limiting vegetation clearance to construction and laydown areas.
 - Minimising excavations.
 - Obtaining an exemption for using waste in construction from the EA. This will allow for the reuse of suitable spoil in re-grading construction areas.
 - Suitable materials and offcuts that otherwise would constitute construction wastes will be reused on site.
- 3.10.10. Material from construction and domestic waste will be recycled. Where possible this will be undertaken by segregating wastes into recyclable waste streams (e.g. wood, metals, paper, plastics, WEEE) and arranging separate removal of wastes to suitable recycling facilities. Where site constraints make this unmanageable (e.g. where sites are too small for multiple receptacles) wastes will be segregated as much as possible before being sent offsite to facilities that separate and recycle mixed wastes. Waste may need to be stored at a location controlled by the waste producer prior to transfer to a disposal site as per Non Waste Framework Directive (NWFD) Exemption 3 (https://www.gov.uk/guidance/waste-exemption-nwfd-2-temporary-storage-of-wasteat-a-place-controlled-by-the-producer).
- 3.10.11. Appropriate facilities for storing waste will be provided. These will be:
 - Within secure boundary with controlled access, providing a secure location.
 - Located away from receptors.
 - Suitable containers; covered, no leaks.
- 3.10.12. Any asbestos present in the existing buildings at the Drax Power Station which are to be demolished as part of the construction works, will be removed and disposed of by a suitably licensed asbestos contractor. All works would be subject to a detailed working method



- statement and work would adhere to the "Control of Asbestos Regulations 2012" and associated guidance.
- 3.10.13. Any waste removed from site will be removed by a licenced waste carrier. Any disposal site utilised will be a licensed site. The contractor will check all licences and hold a copy of the relevant reference number.

Soil Testing

3.10.14. To ensure that spoil is taken to the correct disposal site it will be categorised by soil testing. The waste producer, carrier and disposal site will confirm waste acceptance prior to transfer.

Recording Waste Actions

- 3.10.15. Any instance in which waste is removed from site, a Waste Transfer Notice (WTN) is to be completed. In the case of hazardous material, a hazardous waste Consignment Note (CN) will be completed.
- 3.10.16. WTN/CN is to detail as a minimum:
 - Date the waste was removed from site.
 - Type of waste removed from site, as per European Waste Classification (EWC).
 - Quantity of waste removed.
 - Name and address of Waste Carrier.
 - Name and Address of Waste Producer.
 - Address of the site that the waste was removed from.
 - Address of the site that the waste was removed to.
 - Reference number of waste carrier licence.
 - Weighbridge tickets from disposal sites will be sought where appropriate.
- 3.10.17. In the case that contractor staff authorise the removal of the waste from site the WTN/CN is to be held by the Site Manager in the site office and a copy sent to the Environmental Advisor/Manager. It may be that the waste carrier provides an online documentation system; in this case the Environmental Advisor/Manager will obtain the documentation directly from the online system. If the waste removal is authorised by a sub-contractor the WTN/CN is to be held by the sub-contractor. A copy of all sub-contractor WTN/CN must be forwarded to the contractor's Environmental Advisor/Manager on a monthly basis.
- 3.10.18. All details of every waste carrier, disposal site, dates and quantities for all movements will be recorded in the sections entitled Specify Waste Carriers, Plan Waste Destinations and Actual Waste Movements. The SWMP will be updated every month when construction works commence and will be reviewed on a six monthly basis by the PC/DC. During these reviews, the SWMP will intuitively highlight when licences for waste carriers and disposal sites are due to expire, to ensure that the PC conducts further checks to verify that these suppliers are still compliant.

Compliance and Standards

3.10.19. To ensure waste processes are managed in accordance with legislation and appropriate industry standards there are additional sections within the SWMP to assess how the Proposed Scheme is expected to perform. Within the compliance section, the client and assigned PC will review statements relating to the pre-construction, construction and post-completion phases of the Proposed Scheme and confirm that they are operating in



accordance with these statements. Furthermore, the standards by which the client and construction management team expects to perform to, will also be assessed in key areas including policy / target setting, training, monitoring and reporting. As a minimum the project will be performing to at least the standard level in all categories.

Key Performance Indicators and Reporting

- 3.10.20. To assist with analysing how the Proposed Scheme is progressing against those targets that have been set (as set out in the Basic Details section), the SWMP has a number of functions which collate the data entered. The will allow the PC to review performance and report back to the client and any other relevant stakeholders on how waste is being managed.
- 3.10.21. As the Proposed Scheme draws to a close, it will be possible to review performance and analyse the figures to identify where improvements can be made for future projects.



APPENDIX A – RISK REGISTER (TO BE COMPLETED)

Aspect	Impact	Risk Rating	Mitigation
e.g. earthworks and excavation	e.g. temporary increase of local noise levels		e.g. silencers will be fitted to exhausts where possible



APPENDIX B - SOIL MANAGEMENT PLAN



