

Southampton to London Pipeline Project

Deadline 4

Appendix C: Outline Site Waste Management Plan
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1 Introduction

1.1 Overview of the Project

- 1.1.1 Esso Petroleum Company, Limited (Esso) is making an application for development consent to replace 90km (56 miles) of an existing pipeline to transport aviation fuel between Boorley Green in Hampshire and the Esso West London Terminal storage facility in Hounslow. The replacement pipeline is 97km long taking into account that it cannot follow the line of the existing pipeline along its whole length due to new developments and environmental constraints.
- 1.1.2 Esso has already replaced 10km of pipeline between Hamble and Boorley Green in Hampshire. The replacement pipeline starts near Boorley Green at the end point of the previously replaced pipeline. The route runs generally in a northeast direction via Esso's Pumping Station in Alton. It terminates at the Esso West London Terminal storage facility. The areas of land to be permanently or temporarily used for the project are known as the Order Limits.
- 1.1.3 Works to install and commission the pipeline are expected to start from grant of Development Consent Order (DCO) and be completed by early 2023. Certain advance works may take place prior to development consent where consented under alternative regimes, for example, the Town and Country Planning Act 1990.
- 1.1.4 The development authorised by the DCO must be undertaken in accordance with the Construction Environmental Management Plan (CEMP) pursuant to Requirement 6 of the DCO.

1.2 Purpose of the Outline Site Waste Management Plan

- 1.2.1 This Outline Site Waste Management Plan (SWMP) has been produced as Appendix C to the Outline Construction Environmental Management Plan. The final SWMP(s) will be part of the final CEMP and would be in accordance with the Outline SWMP. The final CEMP and appendices will be produced prior to construction and will be submitted and approved by the relevant planning authorities in accordance with Requirement 6 in the DCO. Esso and its supply chain of contractor(s) would adopt the control measures set out in the final SWMP(s) when undertaking the construction of the project.

1.3 Aims and Objectives

- 1.3.1 The key overarching aim of the Outline SWMP is to identify the main sources of waste produced during construction of the project and how it should be disposed of.
- 1.3.2 The objectives of the outline SWMP are to define:
- the contents and scope of the final SWMP;
 - the hierarchy of waste definition;
 - existing good practices in relation to site waste management as set out within the Register of Environmental Actions and Commitments (REAC) in ES Chapter 16 (**Application Document [APP-056](#)**);

- the management and handling of waste including roles & responsibilities; and
- typical examples of project related waste.

1.3.3 The outline SWMP relates only to the construction of the project.

1.4 Roles and Responsibilities

1.4.1 Overall roles and responsibilities for the project will be presented in the final CEMP. The main roles and responsibilities specific to the Outline SWMP are set out in Table 1.1 along with the specification for the roles where applicable. The final SWMP(s) will include further details in relation to organisational structure and the individuals with specific responsibilities.

Table 1.1: Roles and Responsibilities

Roles and Specification	Responsibilities
Environmental Manager	Responsible for preparing the final SWMP and for producing the methodologies relevant to waste management on the project. Also responsible for obtaining the approval of the relevant planning authority.
Environmental Clerk of Works	Responsible for ensuring the mitigation set out in the final SWMP(s) is implemented, for undertaking periodic checks on site, and for investigating any non-compliance issues or complaints.
Site Waste Manager	Responsible for day-to-day waste management and maintaining site waste registers/documentation.

1.4.2 One of the key responsibilities of the Site Waste Manager will be to maintain the central register of all waste consignment notes together with schedules of carriers and disposal locations and waste datasheets to ensure the efficient tracking of waste management. The Environment Agency and Local Waste Authority may wish to see evidence of waste management documents at any time. By maintaining the central register of waste records, the project will have an established method of record keeping for internal and external auditing purposes.

1.5 Structure of the Outline Site Waste Management Plan

1.5.1 The Outline SWMP covers site waste management during advance/enabling works, construction, reinstatement, post construction and the implementation of other ecological mitigation measures, together with the subsequent maintenance and monitoring of these measures.

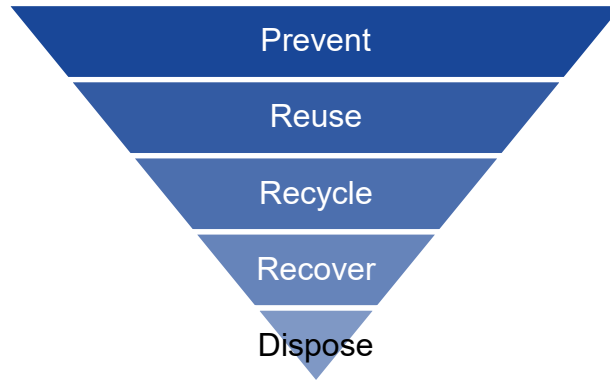
1.5.2 The Outline SWMP includes:

- The main body of the outline SWMP, with the good practice measures, as set out within the Register of Environmental Actions and Commitments (REAC) in ES Chapter 16 (**Application Document [APP-056](#)**) and details about methods that will be employed to reduce noise and vibration during construction including additional mitigation measures; and
- The site checks and reporting that will be undertaken in respect of noise and vibration.

1.6 Waste Hierarchy

1.6.1 The project will follow the hierarchy shown in Figure 1.1 in relation to site waste.

Figure 1.1: Waste Hierarchy



1.7 Project Commitments

1.7.1 Esso has committed to a number of mitigation measures which would reduce waste impacts. These were set out in the REAC in ES Chapter 16 (**Application Document [APP-056](#)**). The commitments are indicated by a reference number, for example (G77). The ones relevant to the Outline SWMP are listed in Table 1.2 and would be included in the final SWMP. The following sections of the Outline SWMP set out further details, in addition to the commitments, about how the construction works would be undertaken.

Table 1.2: Project Good Practice Measures Relevant to the SWMP

Commitment Number	Commitment
G7	<p>Appropriate site layout and housekeeping measures would be implemented by the contractor(s) at all construction sites. These may include:</p> <ul style="list-style-type: none"> • preventing pest and vermin control and treating any infestation promptly. This would include arrangements for the proper storage and disposal of waste produced on site; • inspecting and collecting any waste or litter found on site; • locating or designing site offices and welfare facilities to limit the overlooking of residential properties; • locating designated smoking/vaping areas to avoid significant nuisance to neighbours; • managing staff/vehicles entering or leaving site, especially at the beginning and end of the working day; • avoiding the use of loudspeaker systems or radios; and • managing potential off-site contractor and visitor parking.
G18	Bonfires and the burning of waste material would be prohibited.
G23	All plant and vehicles would be required to switch off their engines when not in use and when it is safe to do so.
G71	<p>For all areas, the following strategic approach would be taken for the management of both known and unknown land contamination:</p> <ul style="list-style-type: none"> • a desk based qualitative risk assessment would be undertaken on the basis of available information to ascertain areas of known and unknown contamination; • working method statements would be produced based on the assessment; • contingency plans would be developed for dealing with various forms of known or unknown contamination to allow work to progress with limited delay. These procedures would clearly define methods for dealing with any areas of unexpected contamination to manage immediate risks and prevent any contamination, ground gas, airborne contaminants or odour spreading from the affected area, and for appropriate disposal. Measures would contain protocols for dealing with areas of potential asbestos-containing materials, should they be encountered. <p>For areas where potential contamination is known or strongly suspected to be present as a result of past activities, the following would also be undertaken:</p> <ul style="list-style-type: none"> • ground investigation information would be shared and developed as appropriate; • risks to receptors would be assessed, and mitigation and working methods to control those risks would be developed. Risks would include: encountering contaminated dust, soils and groundwater; and where the presence of ground gas and/or vapours may lead to confined space risks, such as in excavations; • a Suitably Experienced Person would ensure that risk areas are identified, working methods followed and mitigation carried out appropriately; • made ground and materials known or strongly suspected of being contaminated would be segregated from natural and inert materials; and • ground arisings deemed unsuitable for re-use within the project would be disposed of appropriately for example to a soil treatment centre or landfill.
G74	Excavation materials identified by the Watching Brief as being potentially contaminated and unsuitable for re-use within the project would be segregated from other materials and transported off-site in suitable vehicles for off-site testing and subsequent disposal. Vehicles would contain and cover the materials to prevent loss of leachate, dust or other materials during transport.
G77	A Site Waste Management Plan (SWMP) would be developed prior to construction. The contractor(s) would maintain and monitor the SWMP throughout the construction phase and oversee that any sub-contractor(s) adhere to the SWMP

1.8 Description of Works

- 1.8.1 A project description is set out within ES Chapter 3 (**Application Document APP-043**). This describes the main works that would be undertaken before, during and after installation.
- 1.8.2 This section of the final SWMP will contain additional details based on the appointed contractor's final construction design and methodology, which will include:
- a general description of the working methods to be employed;
 - justification of why the methods selected by the appointed contractor represent Best Practicable Means in terms of control of waste; and
 - quantities, construction duration and whether there are any differences to those assessed within the application.

1.9 Management and Handling of Site Waste

- 1.9.1 Management and handling of site waste will vary dependant on the work cycle being undertaken at any specific time. This will then be dependent on the final project programme which will be produced and would be included in the final SWMP.
- 1.9.2 The final project programme has yet to be developed in detail, as this would be undertaken during the detailed design stage. The high-level project programme will be included within the final CEMP. Details in relation to site waste management will be added to this section in the final SWMP, for example the anticipated rates of progress for different types of open cut sections and the anticipated duration of works at trenchless crossing sites.

1.10 Storage, Assessment, Testing, Handling, Collection and Transfer Requirements to be Implemented for Site Waste

- 1.10.1 Each logistics hub and individual construction compound will have designated waste storage areas. The size and number will vary depending on the type of waste that is likely to be generated for that specific section of the works.
- 1.10.2 Waste will be separately collected and stored either at the individual construction compounds or centrally at the logistics hubs.
- 1.10.3 When sufficient quantities have been collected at the construction compounds, the waste will either be recycled to the site, disposed of direct to a recycle/waste facility or collected and held at a logistics hub for onward recycle/disposal.
- 1.10.4 The type of waste material being stored will dictate what containers, laydown areas, bins or hard standings are required to facilitate the waste storage including measures to prevent pest and vermin.
- 1.10.5 Contaminated or Hazardous Waste – These will have separate designated areas within the construction compound or hub. Handling and storage of these will be dependent on the level, type or classification of the waste.



- 1.10.6 Waste Designation Code and Classification – Identify the appropriate waste code in the European Waste Code (EWC), The assessment will be undertaken by the Site Waste Manager. Waste will be classified using the Waste Acceptance Criteria (WAC) as identified in the EWC designation table, examples of which are shown in Table 1.3.

Table 1.3: EWC Designation Code Description (examples)

Description	Restrictions	EWC Code
Glass packaging	None	15 01 07
Concrete	Selected construction and demolition (C&D) waste only	17 01 01
Bricks	Selected C&D waste only	17 01 02
Tiles and Ceramics	Selected C&D waste only	17 01 03
Mixtures of concrete, brick, tiles and ceramics	Selected C&D waste only	17 01 07
Glass	Separately collected glass only	20 01 02

- 1.10.7 Testing – Where required, WAC testing will be undertaken. The purpose is to ensure that classification is correct in respect to either inert wastes or hazardous wastes. WAC testing may be required for the disposal of inert wastes, such as glass, ceramics and wood, depending on the specific waste handlers’ requirements.
- 1.10.8 Waste handling, collection and transfer – Any company collecting waste must be legally authorised to do so. This requires the project to ensure that any company collecting its waste is either:
- registered as a waste carrier (registered carriers hold a licence which must be checked);
 - exempt from requiring carrier registration; or
 - a waste collection authority in England and Wales, waste disposal authority in Scotland or a district council in Northern Ireland (licence not required)
- 1.10.9 Registered waste carriers are licensed by their respective environmental regulator and are issued with Waste Carriers Licence (valid for three years).
- 1.10.10 All parties involved in the carriage of waste must sign and retain a copy of the transfer documentation. This is a legal requirement, and failure to maintain a record of waste collections can result in prosecution. Completed Waste Transfer Notes (WTN) and Hazardous Waste Consignment Notes must be kept on file for:
- Waste Transfer Note (WTN) – 2 years; and
 - Hazardous Waste Consignment Note – 3 years.
- 1.10.11 Prior to the removal of waste from site, a waste consignment note must be completed, detailing what is to be moved, its origin and its final destination.

1.11 Typical Examples of Project Related Waste

- 1.11.1 The project has identified the following as potential site-generated generic waste which will be controlled by the SWMP, with particular details being produced in line



with the legislative requirements for off-site waste disposal for the following items during the multiple stages of the works:

- Trees, shrubs and vegetation – Vegetation arisings would be disposed of responsibly. Small quantities may be reused on site to create ecological habitat (Commitment G62). Any trees, shrubs or vegetation that cannot be recycled on site, and therefore highlighted as requiring removal, shall be disposed of as inert waste at a recycle facility – subject to agreement with the landowner.
- Trench arisings – not topsoil –Where this is not practicable, they would be sent to a recycling facility for disposal.
- Highways – Spoil excavated from works in the highway will be tested and, where suitable, removed and either treated and reused or, if not suitable, sent to a recycling facility for disposal.
- Cement/concrete – Cement or concrete arisings will be collected and recycled as hardcore at a recycling facility. Cement washings shall be collected into a designated area and disposed of off-site.
- Rebar – All offcuts of rebar shall be collected and recycled off-site at a recycling facility for disposal.
- Wooden formwork/temporary works – All wooden formwork/temporary works or support timbers shall be disposed of as hazardous waste where it has come into contact with poured concrete. However, clean (non-concrete impacted) used timber will be collected and reused, sent to a recycling facility or disposed of.
- Packaging/dunnage – The bulk of the packaging/dunnage is expected to be the timber frames that the pipes will be delivered on. There are likely to be other unquantifiable pieces of equipment delivered in a variety of protective packaging. Packaging/dunnage will be collected and recycled for reuse or sent to a recycling facility for disposal.
- Each pipe will have two plastic end caps that will be collected and recycled or sent to a recycling facility for disposal.
- Crushed stone – Crushed stone will form the temporary compounds surface. When the compound is no longer required, the crushed stone will be removed with the ground returned to its original condition unless the landowner requests otherwise. Where suitable, the stone will be recycled to other site compounds or sent to a recycling facility for disposal.
- Steel pipework/plate and welding waste – All offcuts of steel pipe and plate shall be collected and recycled off-site at a designated location/recycling facility.
- Pipe coating and wrapping materials – All offcuts and waste wrapping material shall be collected and recycled off-site at a designated location/recycling facility.
- Drilling mud (bentonite) – Drilling mud (bentonite) utilised as part of the horizontal drilling process will be collected, reused where possible or sent to a recycling facility for treatment and disposal.
- Greases and oils – All greases and oils will be collected and sent to a recycling facility for treatment and disposal as hazardous waste.



- Contaminated Waste – The project will identify, sample, test arisings which have a potential to be contaminated. Dependant on the results, this will dictate the mitigation measures required.
- Pre-construction and post-construction drainage materials – The project will use plastic, concrete, brick and stone-based materials as part of the pre-construction and post construction drainage installation. Waste generated will be collected and sent to a recycling facility for treatment and disposal.
- Flume pipes and associated materials – The project will be using a number of flumes of various materials, diameters and lengths which will be reused/recycled where possible through the length of the scheme and either treated and reused, or sent to a recycling facility for disposal, when no longer required.
- General office and welfare waste – logistic hubs and construction compounds will have a number of offices and cabins. The following have been identified:
 - General office waste – Items that are not classified as hazardous that cannot be reused, recycled or separated are the only types of waste that should be disposed of in general waste bins (for landfill).
 - Paper – Paper should be separated from the general waste stream and placed in dedicated paper bins.
 - Cardboard – Waste card and cardboard should be collected separately and placed in suitable containers for collection by a recycling contractor.
 - Food – Biodegradable kitchen and canteen waste.
 - Metals/aluminium – Waste metals and aluminium, including cans, should be separated from the general waste stream and collected by a recycling contractor.
 - Plastic – Waste plastic items (food and drink containers, wrapping materials, bags, etc.) should be separated from the general waste stream and collected by a recycling contractor.
 - Mixed recycling – Co-mingled dry recyclables which include plastic, paper and cans.
 - Glass – Waste glass (not including bulbs and fluorescent tubes) should be separated from the general waste stream and stored for collection by a recycling contractor.
 - Ink cartridges (not toner) – Cartridges must be separated from the general waste stream and stored separately for collection by a specialist contractor.
 - Toner cartridges – Toner cartridges should be separated from the general waste stream and stored separately for collection by a specialist contractor.
 - Feminine hygiene – A specialist contractor should be employed to collect feminine hygiene products via small bins placed in female toilet cubicles. This is controlled waste but must be kept separate from all other waste streams.
 - Clinical waste – Any material containing blood or bodily fluids such as dressings, bandages and clothing is classed as clinical waste and considered to be hazardous. This should be disposed of in similar fashion to feminine hygiene waste.



- Waste electrical and electronic equipment (WEEE) – Redundant computers, monitors and any other waste electrical equipment are described as waste electrical and electronic equipment (WEEE). These items are classed as hazardous waste and must never be disposed of into the general waste stream. They should be stored separately while awaiting uplift by a specialist recycling or disposal contractor.
- Fluorescent light tubes – These may contain mercury and, as such, are classed as hazardous waste. Waste fluorescent tubes should be separated and securely stored on-site for collection by a specialist waste contractor.
- Batteries – All batteries should be separated from the general waste stream, stored separately in secure containers and collected by a specialist recycling contractor.



2 Site Checks and Reporting

2.1 Site Checks

- 2.1.1 The contractor(s) will be responsible for record keeping and site checks during the construction period. The contractor would undertake regular audits and inspections as part of the compliance with the requirements of the final SWMP. This would be in addition to the regular environmental inspections undertaken by the Environmental Clerk of Works (ECoW).
- 2.1.2 The final SWMP will set out the site checks that would be undertaken during construction. Examples are provided in Table 2.1.

Table 2.1: Proposed Checks (for Illustration)

Action	Responsibility	Frequency
<i>Insert text</i>	<i>Contractor</i>	<i>Insert text</i>
<i>Checking conformance with the SWMP including checking the INSERT TEXT.</i>	<i>ECoW</i>	<i>Typically once a week.</i>

2.2 Complaints Procedure

- 2.2.1 The complaints procedure would follow the process set out within the final CEMP. A record would be made of the complaint or incident for audit purposes. Further details will also be set out within the final Community Engagement Plan.