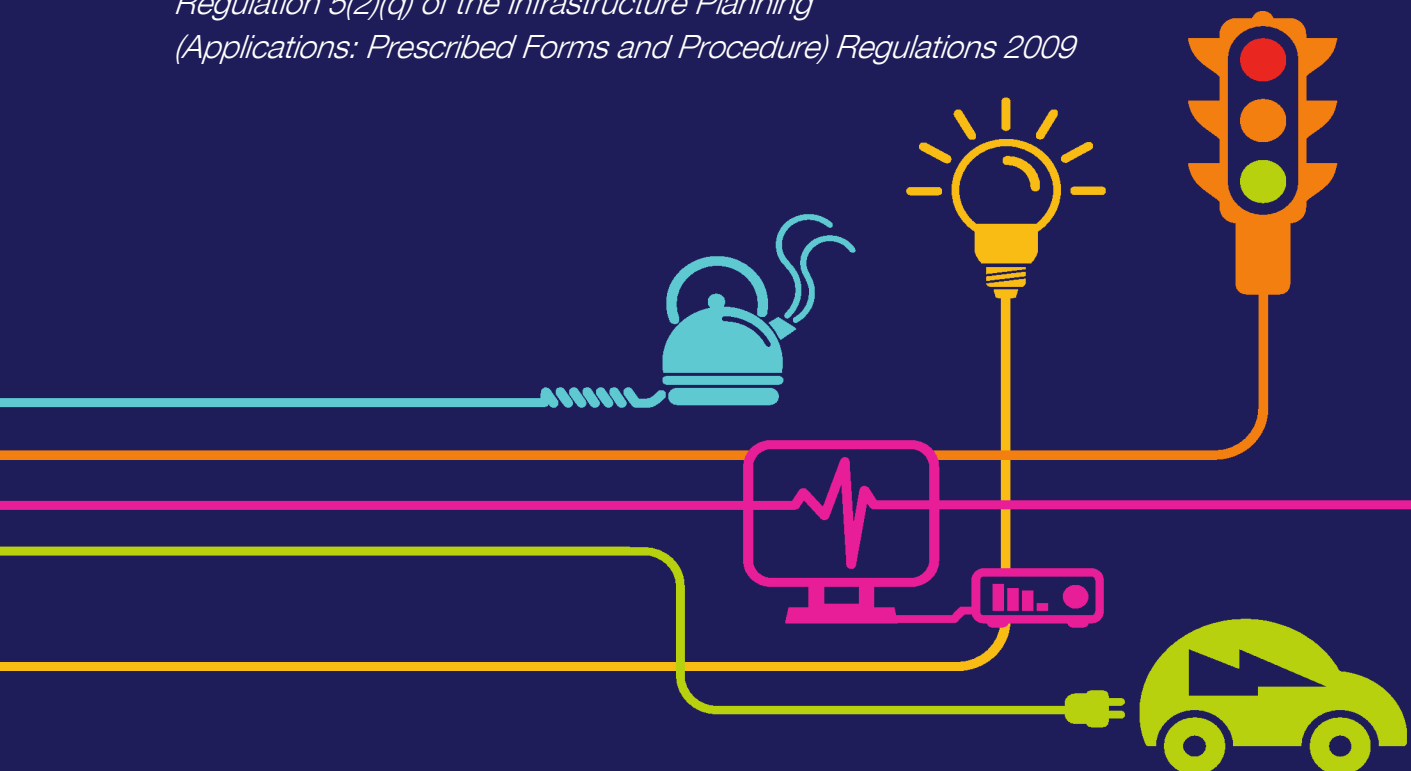


DOCUMENT 7.12

Outline Materials Management Plan

National Grid (North Wales Connection Project)

*Regulation 5(2)(a) of the Infrastructure Planning
(Applications: Prescribed Forms and Procedure) Regulations 2009*



national**grid**

North Wales Connection Project

Volume 7

Document 7.12

Outline Materials Management Plan

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Final September 2018

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Document Control			
Document Properties			
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Title	Outline Materials Management Plan		
Document Reference	7.12		
Version History			
Date	Version	Status	Description/Changes
September 2018	Rev A	Final	Final for submission

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1 Outline Materials Management Plan

1.1 INTRODUCTION

- 1.1.1 A Materials Management Plan (MMP) will be produced which will detail how the site construction materials would be managed by the appointed contractor. The materials would be managed in such a way that, wherever possible, they would not become a waste, thereby complying with the principles of the CL:AIRE protocol (Ref 1). This Outline MMP (OMMP) provides the framework to be used and from which future, more detailed site based MMP's would be developed.
- 1.1.2 CL:AIRE is an independent not for profit organisation established to stimulate regeneration of contaminated land. They have produced a voluntary Code of Practice (CoP) for the development industry to help facilitate the use of excavated materials as non-waste. The CoP sets out a mechanism for working outwith the waste legislation framework in regard to the use of excavated materials, applicable to both greenfield and brownfield sites. The CoP, which was introduced in September 2008 and revised in March 2011, is now widely used as a means of managing and controlling the movement of materials both on and off site.
- 1.1.3 The CoP assesses on a site by site basis whether excavated materials are classified as waste or not, or alternatively can cease to be a waste for a particular use. It provides a convenient way of managing materials on site and avoids the need of having to enter the Environmental Permitting process. The protocol requires a degree of self-regulation and relies upon a high level of professional integrity from all those involved.
- 1.1.4 Natural Resources Wales (NRW) will take account of this CoP in deciding whether to regulate materials as waste, and if materials are dealt with in accordance with the CoP they are unlikely to be regarded as waste. The CoP provides for its application within three main scenarios:
- Use on Site of Origin;
 - Direct Transfer; and
 - Cluster Projects

Use on Site of Origin

- 1.1.5 This involves a single readily identifiable site, which could be an area covered by a specified planning permission. It could also be a number of parcels of land in close proximity to one another, which are assembled together to form a larger development scheme.
- 1.1.6 Excavated materials can be used directly within the development, subject to it being suitable for use, or following on site treatment under an appropriate Environmental Permit. Any surplus material should be taken to an authorised waste management facility, or donated to a Hub site within a Cluster Project (see Cluster Projects). If it is a clean natural soil material it may also be transferred directly to another development site (see Direct Transfer).
- 1.1.7 Cases where material is to be used on the Site of Origin as well as at one or more of these alternatives, are referred to as “combination scenarios”.
- 1.1.8 Whenever it is envisaged that materials would be temporarily stored on site, and the use of those materials would occur more than one year from being stored, a time limit would have to be agreed with NRW. The period of storage would take account of the extant planning permission or agreed programme of works.

Direct Transfer

- 1.1.9 The CoP includes Direct Transfer of clean naturally occurring soils and mineral materials from one site to another development site for use, without the need for waste legislation to be applied. These materials can include topsoil, subsoil, clays, silts, sands and gravels, and the underlying geology. It can also include Made Ground, provided it is suitable for use without processing.

Cluster Projects

- 1.1.10 The Cluster Project approach is designed to facilitate the remediation and/or development of a number of sites that are located in relatively close proximity, and share a decontamination/treatment facility located on a single site, referred to as a Hub site. A key principle is that the activity is temporary.

Materials Management Plans (MMPs)

- 1.1.11 The CL:AIRE protocol works on the basis of the preparation of a MMP, which is then verified and signed off by a Qualified Person (QP) and a Declaration made to confirm that the materials are to be dealt with in

accordance with the MMP. The QP must be chartered through a relevant professional body and be registered with CL:AIRE.

1.1.12 The object of this OMMP is to provide a framework to ensure that the principles for the use of site-won materials as 'non waste' are met. In order to comply with the CL:AIRE Protocol in this regard, the excavated materials must:

- Not be a risk to human health;
- be suitable for their intended use without further processing (chemically and geotechnically); or
- be suitable for use following treatment under an appropriate Environmental Permit;
- have a certainty of use (specified in planning, remediation strategies); and
- be only the quantity that is absolutely necessary.

1.1.13 The MMP would be developed to include the above information, together with details of planning, site ownership, contractor details, consultations with statutory consultees, tracking systems and verification.

1.1.14 The MMP would further include a specific Soils Management Plan (SMP) developed under The Construction Code of Practice for the Sustainable Use of Soils on Construction Sites. This provides best practice guidance for the excavation, handling, storage and final placement of soils.

1.2 REQUIREMENTS OF THE MMP

1.2.1 The MMP should follow the layout and cover the issues outlined below. CL:AIRE provides a digital template document for this purpose (Appendix 1).

Project Details

1.2.2 The MMP should include a description of the site, the proposed operations, the materials to be used, together with targets and objectives, and an outline of any key performance indicators for the efficient use of materials on site. Examples of key performance indicators would include following National Grid's sustainability objectives whilst achieving specifications for access tracks, development areas and compound construction, together with the requirements for reinstatement.

- 1.2.3 Plans should be provided in the MMP showing details of materials used and movements on site, including stockpiles, quantities and specifications for placement. The MMP must be in place prior to excavation, setting out the preliminary categorisation of materials, however, this may be refined by testing materials following commencement of the works.
- 1.2.4 Where there are separate sites involved within a project, site based MMPs would be required. For particularly large sites that may take several years to develop, a phased approach to developing the MMP may be appropriate.

Parties

- 1.2.5 The contact details should be supplied for all parties involved in the materials excavation, management and use on site, to include:
- Landowner information
 - National Grid Manager
 - Principal Earthworks Contractor
 - Transport Contractor
 - Local Authority
 - Qualified Person
 - Natural Resources Wales

Evidence and Reporting

- 1.2.6 In order to comply with the requirements of the CL:AIRE Code of Practice, demonstrating protection of human health and the environment, the suitability and certainty of use together with quantity of materials, the following additional information would be required:
- A Design Statement on how the use of materials will be undertaken on site relating to the design objectives for the site;
 - desk study, site investigation and/or laboratory test information demonstrating the suitability of use of the proposed materials;
 - details of the contractual arrangements; and
 - the verification process, including provision of tracking systems, contingency arrangements, verification testing and reporting.

Resource Requirements

- 1.2.7 The material resources to be used, including types and quantities, would be based on the requirements of the Proposed Development works, together with site investigation results indicating the ground conditions and materials to be excavated.
- 1.2.8 The phasing of materials use, management and any mitigation measures relating to their use would be outlined and implemented. The minimisation of material resources would be achieved through attention to specifications, timescales for delivery, storage and handling requirements. The method of transporting material resources to minimise road transport would form an important element to this process.
- 1.2.9 Site based MMP's would be produced where appropriate for each of the major components of the Proposed Development. Each site based MMP would be subject to a CL:AIRE Declaration by the QP. The materials would be assessed to fall within one of the following categories:
- Material is capable of being used in another place on the same site without treatment;
 - material is capable of being used in another place on the same site following on site ex-situ treatment;
 - material is capable of being used on another development site without treatment;
 - material is capable of being used on another development following ex-situ treatment on another site (designated as a Hub site);
 - material is not capable of being used on site or elsewhere and as such would require recovery or disposal offsite as waste;
 - material is surplus to requirements and as such would require recovery or disposal offsite as waste.

Material and Waste Arisings from the Proposed Development

- 1.2.10 The tunnel involves preparation works at Braint and Tŷ Fodol construction compounds to remove topsoil and superficial Glacial Tills for the shaft construction and along the access tracks. The quantities are summarised in **Table 2.1**. These materials would be used in landscaping works and stored for use in reinstatement following completion of construction.

1.2.11 The shaft will be constructed by drill and blast techniques. If the drill and blast method was used to construct the tunnel, the shaft and tunnel arisings may be suitable for use in access track construction for the Overhead Line (OHL) works. The use of arisings for access track construction would be subject to the relative timing of the two construction programmes allowing this to take place. The quantities are summarised in **Table 2.1**. Alternatively, another beneficial use may emerge prior to construction commencing.

1.2.12 If the TBM method of construction is adopted the tunnel arisings would be treated, processed and segregated at the respective tunnel construction site in order to separate out the bentonite slurry and excess water for re-use in the tunnelling operation. A proportion of the segregated arisings may be suitable for use in access track construction for the OHL works, subject to the relative timing of the two construction programmes allowing this to take place.

Table 2.1: Forecast of Likely Waste Types and Arisings – Tunnel and Shafts				
Proposed Development	Materials and excavation method	Estimated volume (m ³)	Estimated Tonnage	Anticipated use of materials
Braint shaft site preparation	Topsoil removal	15,000	30,000	Re-used on site for re-instatement
	Access track and site aggregate	17,000	30,600	Recycled as aggregate
Braint shaft excavation	Excavated superficial deposits (glacial till)	2,200	4,400	Used on site for landscaping
	Blasted rock	13,200	34,300	Either used on site for landscaping or recycled as aggregate
Tŷ Fodol shaft site preparation	Topsoil removal	15,000	30,000	Re-used on site for re-instatement
	Access track and site aggregate	19,000	34,200	Recycled as aggregate

Table 2.1: Forecast of Likely Waste Types and Arisings – Tunnel and Shafts				
Proposed Development	Materials and excavation method	Estimated volume (m ³)	Estimated Tonnage	Anticipated use of materials
Tŷ Fodol shaft excavation	Excavated superficial deposits (glacial till)	4,000	8,000	Used on site for landscaping
	Blasted rock	15,250	39,650	Either used on site for landscaping or recycled as aggregate
Tunnel (TBM option)	TBM arisings	76,000	197,600	Recycled as aggregate
	Blasted rock sections	5,000	13,000	Recycled as aggregate
Tunnel (D&B option)	Drill and blast arisings	112,500	292,500	Either used on site for landscaping or recycled as aggregate

1.2.13 The OHL works would involve the removal of topsoil for temporary access track construction, together with compounds, crane pads, and other working areas. This would be stored for re-instatement of these areas on completion of construction. The quantities are summarised in **Table 2.2**.

1.2.14 Upon completion of construction of the Proposed Development most of the access tracks would be removed and the stone aggregates would be excavated and recycled. The quantities are summarised in **Tables 2.1 and 2.2**. It is possible a beneficial use for this material may emerge prior to or during construction of the Proposed Development.

Table 2.2: Forecast of Likely Waste Types and Arisings – Overhead Line Construction				
Proposed Development	Waste Type	Estimated volume (m ³)	Estimated tonnage	Anticipated use

Table 2.2: Forecast of Likely Waste Types and Arisings – Overhead Line Construction

Proposed Development	Waste Type	Estimated volume (m ³)	Estimated tonnage	Anticipated use
New pylons and overhead lines	Topsoil removal	221,200	376,300	Re-used on site for re-instatement
	Access track and working areas aggregate	248,600	477,500	Recycled as aggregate
Removal of dismantling and temporary pylons and overhead lines, and 4ZB overhead line	Crane pads topsoil removal	1,350	2,375	Re-used on site for compound and working area re-instatement
	Crane pad and working area aggregate	2,010	3,860	Recycled as aggregate

Movement and Tracking Systems

1.2.15 The movement of materials within the site and between sites must be tracked throughout and evidence generated to provide an auditable trail. The tracking system must include:

- Annotated plans of the site identifying excavation areas, stockpile locations, any treatment areas and placement locations;
- inspection and testing procedures to verify materials are as anticipated from the site investigation information;
- tracking forms and control sheets to record the movement of materials, including delivery tickets if materials are moving between sites; and

- acceptance and testing procedures if materials are moving between sites.

Site Records

1.2.16 In addition to site specific records detailed in the OWMP, the following records would be kept:

- Licences and permits relevant to the MMP;
- details of any planning approvals;
- material resources tracking, treatment and delivery note records; and
- records of any contingency arrangement for materials resources and unforeseen waste arisings that had to be implemented.

Verification Plan and Verification Report

1.2.17 The Verification Plan would identify how the placement of materials would be recorded and the quantity of materials to be used. The Verification Report is produced to provide an audit trail to show that materials and waste have gone to the correct destination(s).

1.2.18 The Verification Report must also document any changes that may have been made to the MMP arising from any alterations to the Proposed Development or contingency arrangements that had been implemented.

1.3 QUALIFIED PERSON ASSESSMENT

1.3.1 The site based MMP's would be subject to review and Declaration by a QP, who must be registered with CL:AIRE. The MMP would then be submitted to NRW for information and as a record of the plan. The Declaration serves as notification, that having reviewed the evidence relating to the proposed use of materials on site, the QP is satisfied the CL:AIRE Code of Practice can be utilised appropriately.

1.3.2 Once the Declaration has been made, the organisation commissioning the QP must then follow the MMP and produce a Verification Report on the works, which would form part of the audit trail upon completion of the Proposed Development.

1.3.3 The QP would be required to review the various documents relating to the excavation and movement of materials. They must be suitably qualified and

experienced to undertake the review and be confident in signing the Declaration.

1.3.4 The QP assessment process would include the following main lines of evidence:

- Has the source site of the excavated materials been adequately described and appropriate information provided that confirms that these materials will not cause harm to the environment or harm to human health in the proposed location of future use;
- have all parties involved with the excavation and treatment of materials been identified;
- have all the materials been adequately characterised and fall within the scope of the CoP;
- has the MMP been completed using the correct CL:AIRE template;
- have all lines of evidence been followed and the appropriate regulators consulted and that they have no objection; and
- is there enough evidence to demonstrate certainty of use of the excavated materials and of the correct quantity.

1.3.5 The QP does not need to inspect the site, carry out any additional assessment (including dialogue with the regulators) or produce/review the Verification Report. The QP can, however, be separately appointed to assist or prepare the Verification Report, but this would be outside the remit of the CoP.

1.3.6 Subject to acceptance and sign off of the MMP by the QP, there would be no requirement for NRW to have any input to the process other than for auditing purposes. This could involve visiting the site and reviewing the MMP documentation, operation and management at the site and at any site(s) receiving the material.

2 References

REF 1 The Definition of Waste: Development industry Code of Practice – Version 2, March 2011.

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Appendix 1: Materials Management Plan (MMP) Form – October 2014

Materials Management Plan (MMP) Form - October 2014

This form should be completed once the lines of evidence have been marshalled in relation to suitability for use, certainty of use and quantity required.

The answers to the questions posed within this form, together with the supporting information will constitute the MMP and must be provided to the Qualified Person.

A Qualified Person may comment on draft versions of this MMP, but will not complete the Declaration until all the relevant documents, demonstrating lines of evidence have been provided for each site.

The person / organisation who will pay the Declaration fee should confirm that they have read and understand the Terms and Conditions relating to the payment of the Declaration fee to CL:AIRE. These can be found on the CL:AIRE website.

The person / organisation agreeing to pay the Declaration Fee - Name, organisation and contact details inc. email address -	
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I confirm I have read and understood the Terms & Conditions.

Each question must be answered. If the question is not applicable please state this and provide a brief explanation.

1. Specify the scenario to which this MMP relates, as described in the Definition of Waste: Development Industry Code of Practice (DoW CoP) (1, 2, 3 or 4):

- 1. Reuse on the Site of Origin
- 2. Direct Transfer of clean naturally occurring soil / mineral materials
- 3. Cluster Project
- 4. Combination of any of the above

In the case of a combination of reuse scenarios, please describe it below (e.g. (i) Reuse on Site of Origin and Direct Transfer of clean naturally occurring unpolluted soils, (ii) Reuse on the Site of Origin with Direct Transfer of clean naturally occurring soil to x number of development sites etc:

(NB: A Declaration is required for reuse on the Site of Origin and for any 2 site arrangement i.e. there is no facility for a combination Declaration)

2. Organisation and name of person preparing this MMP	(Full address and contact details)
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Document Control

Date issued	
Revision date	
Summary of revision 1	
Summary of revision 2	

Insert additional lines to the table above for any subsequent revisions.

Note - revisions to the MMP do not trigger an additional Declaration by a Qualified Person, unless an additional site is added to the project.

Revisions to the MMP must be recorded and summarised in the Document Control box above.

Site Details

3. Site / Project name(s)	
Reuse / receiving site name :	
Donor site name (if Direct Transfer)	

Landowners

4a. Name of Landowner(s) (full address and contact details) – where excavated materials are to be reused	
4b. Name of Landowner(s) (full address and contact details) – where excavated materials are arising from	

Summary and objectives

5a. Provide a brief description of the planned project and how excavated materials are to be reused.	
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General Plans and Schematics

6. Attach a location plan for the site(s) and a plan of the site(s) which identifies where different materials are to be excavated from, stockpile locations (if applicable), where materials are to be	Plan Document Reference(s):
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treated (if applicable) and where materials are to be reused.	
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7. Attach a schematic of proposed materials movement. Where there is only one source area and one placement area briefly describe it. For all other projects a schematic is required.	Description & Schematic Document Reference:
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Parties Involved and Consultation – if more than one party please provide additional details for them and identify the location that they will be working e.g. where a site is zoned

8a. Main earthworks contractor(s) (full address and contact details) – Where excavated materials are to be reused	
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8b. Main earthworks contractor(s) (full address and contact details) - Where excavated materials are arising from	
---	--

9. Treatment contractor(s) (full address and contact details) – for treatment on site of origin, or at a Hub site within a fixed STF / Cluster Project	
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10. Where wastes and materials are to be transported between sites, provide details of the transport contractor(s) (full address, contact details and waste carriers registration details (if	
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applicable))	
11. Provide Local Authority contact details (full address and named contacts) where excavated materials are to be reused	
12a. For the site where materials are to be reused and for Hub Site locations provide Natural Resources Wales (NRW) contact details (full address and named contacts):	
<p>For all Cluster Projects:</p> <p>12b. Attach any relevant documentation from the NRW relating to the excavation and reuse of the materials to demonstrate no objection to the proposals (see 3.37 of DoW CoP)</p> <p>If the NRW has not been consulted please explain why (see paragraph 3.39 of the DoW CoP).</p>	NRW references:

Lines of Evidence

There is no one single factor that can be used to decide that a substance or object is waste, or when it is, at what point it ceases to be waste; as complete a picture as possible has to be created.

The following sections require completion to ensure the correct decision is made.

If a requested item is not relevant it is important to clearly state why this is so (e.g. no planning permission required because permitted development status exists).

Suitable for use criteria

<p>13. Please describe or provide copies of the required specification(s) for the materials to be reused on each site.</p>	<p>Document Reference(s):</p>
<p><i>Where contamination is suspected or known to be present</i></p> <p>14a. Please provide copies of or relevant extracts from the risk assessment(s) that has been used to determine the specification for use on the site. This must relate to the place where materials are to be used. This must be in terms of (i) human health (ii) controlled waters and (iii) any other relevant receptors. If a risk assessment is not relevant for a particular receptor given the site setting please explain why below:</p>	<p>Document Reference(s):</p>
<p>14b. Please attach any relevant documentation from the LA relating to the excavation and reuse of the materials to demonstrate no objection (see 3.37 of the CoP)</p>	<p>LA Document references:</p>
<p>14c. Please attach any relevant documentation from the NRW relating to the excavation and reuse of the materials to demonstrate no objection (see 3.37 and Table 2 of the CoP)</p>	<p>NRW Document references:</p>
<p>14d. Please attach any relevant</p>	<p>Document Reference(s):</p>

documentation from any other regulators (if relevant) relating to the excavation and reuse of the materials to demonstrate no objection (see 3.37 of the CoP)	
<p><i>Where contamination is not suspected</i></p> <p>15a. Please attach copies or relevant extracts from the Desk Top Study that demonstrates that there is no suspicion of contamination.</p>	Document Reference(s)
15b. Please attach copies of or relevant extracts from the site investigation/testing reports that adequately characterise the clean materials to be used (if appropriate).	Document Reference(s)
15c. Please attach copies of any other relevant information (if available) confirming that land contamination is not an issue.	Document Reference(s)

NB: It is your responsibility to assess the nature of the material to be used and that it fits within the limitations of the scenario under which it is to be used

Certainty of use

Various lines of evidence are required to demonstrate that the materials are certain to be used. This includes:

- The production of this MMP
- An appropriate planning permission (or conditions that link with the reuse of the said materials)
- An agreed Remediation Strategy(ies)

- An agreed Design Statement(s)
- Details of the contractual arrangements

Please identify in the following sections what lines of evidence relate to the site(s) **where the materials are to be used**.

<p>16a. Planning Permission(s) relating to the site where materials are to be reused</p> <p>Please provide a copy of the relevant planning permission</p>	<p>Document Reference:</p>
<p>16b. Explain how the reuse of the excavated materials fits within the planning permission(s) for each site.</p>	
<p>16c. If planning permission is not required for any one site please explain why below e.g. permitted development, clean up of a chemical spill, surrender of an Environmental Permit, re-contouring within the existing permission.</p>	

<p><i>Where contamination is suspected or is known to be present</i></p> <p>17. Please provide a copy of any Remediation Strategy(ies) that have been agreed with relevant regulators.</p>	<p>Document Reference(s):</p>
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<p><i>Where contamination is not suspected</i></p>	<p>Document Reference(s):</p>
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<p>18. Please provide a copy of any Design Statement(s) that have been agreed (e.g. with the planning authority or in the case of permitted developments the client).</p>	
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Quantity of Use

<p>19. Please provide a breakdown of the excavated materials for each site and how much will be placed at each site or sub area of each site.</p> <p>Where this is not specific to a single readily identifiable source refer to an annotated plan, schematic or attach a tabulated summary.</p>	<p>Document Reference(s):</p>
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<p>20a. How has consolidation/compaction being considered in the above mass balance calculations?</p>	
<p>20b. How has loss due to treatment being considered in the above mass balance calculations (if applicable)?</p>	
<p>20c. How has the addition of treatment materials being considered in the above mass balance calculations (if applicable)?</p> <p>Note - An exact figure is not required but one that is reasonable in the</p>	

circumstances and can be justified if challenged.	
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Contingency arrangements

Explain what is to happen in the following situations and **identify the appropriate clauses** in the contract(s) (Such clauses must be provided to the Qualified Person, preferably as a summary document): or

21a. What is to happen to, and who is to pay for out of specification materials?	Reference:
21b. What is to happen to, and who is to pay for any excess materials?	Reference:
21c. What happens if the project programme slips in relation to excavated materials or materials under -going treatment?	Reference:
21d. Other identified risk scenarios for the project (relating to excavated materials)?	Reference:

The Tracking System

Where contamination is suspected or known to be present, state the procedures put in place to:

22a. For all sites please describe the tracking system to be employed to monitor materials movements.	
Where contamination is suspected or known to be present, state the procedures put in place to: 22b. Prevent contaminants not suitable for the treatment process being accepted	
Where contamination is suspected or	

<p><i>known to be present, state the procedures put in place to:</i></p> <p>22c. Prevent cross contamination of materials not in need of treatment, wastes awaiting treatment and treated materials</p>	
<p><i>Where contamination is suspected or known to be present, state the procedures put in place to:</i></p> <p>22d. Demonstrate that materials that do not require treatment and successfully treated materials reach their specific destination</p>	
<p><i>Where contamination is suspected or known to be present, state the procedures put in place to:</i></p> <p>22e. Ensure that waste for off-site disposal or treatment is properly characterised and goes to the correct facility</p>	
<p>23. Please attach a copy of the tracking forms / control sheets that are to be used to monitor materials movements.</p> <p>To include transfer of loads on site into stockpiles prior to treatment (if applicable), stockpiled after treatment (if applicable), stockpiled awaiting use (as</p>	<p>Document reference(s)</p>

appropriate) and final placement.	
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<p><i>For Hub Sites within Cluster Projects & where materials need treatment before reuse</i></p> <p>24. Please attach a copy of the Environmental Permit covering the treatment process.</p> <p>Alternatively if the treatment is covered by a Mobile Plant Permit and associated Deployment Form, attach a copy of the NRW agreement to the Deployment Form.</p>	Permit reference / NRW letter reference:
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Records

<p>25. Where, and in what form, are records to be kept?</p> <p>Note – records e.g. transfer notes, delivery tickets, Desk Top Study, Site Investigation, Risk Assessment(s), Verification Report(s) need to be kept for at least 2 years after the completion of the works and production of the Verification Report</p>	
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Verification Plan

26. Provide or explain the Verification Plan which sets out how you will record	Document Reference
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<p>the placement of materials and prove that excavated materials have been reused in the correct location and in the correct quantities within the development works (see 3.4 of the DoW CoP).</p>	
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