

Materials Management Plan (MMP) Form – December 2024

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 -	Douglas Brownjohn Wardell Armstrong LLP, 41-50 Futura Park, Aspinall Way, Middlebrook, Bolton, BL6 6SU dbrownjohn@wardell-armstrong.com 01204 227 227 on behalf of Countryside Partnerships Merseyside and Cheshire West
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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	Douglas Brownjohn Wardell Armstrong LLP 41-50 Futura Park Aspinall Way Middlebrook Bolton BL6 6SU
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Document Control

Date issued	24 March 2025
Revision date	
Summary of revision 1	
Revision date	
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)	Halsnead Garden Village – Phase 1
Reuse / receiving site name :	Halsnead Garden Village – Phase 1
Donor site name (if Direct Transfer)	N/A

Landowners

4a. Name of Landowner(s) (full address and contact details) – where excavated materials are to be reused.	Landowner: Nuvu Development Limited, Youggle House 130 Birchwood Boulevard, Birchwood, Warrington, Cheshire, United Kingdom, WA3 7QH Materials to be reused at Halsnead Garden Village, Lickers Lane, Whiston, Prescot.
4b. Name of Landowner(s) (full address and contact details) – where excavated materials are arising from.	Landowner: Nuvu Development Limited, Youggle House 130 Birchwood Boulevard, Birchwood, Warrington, Cheshire, United Kingdom, WA3 7QH Materials excavated from Halsnead Garden Village, Lickers Lane, Whiston, Prescot.

Summary and objectives

5a. Provide a brief description of the planned project and how excavated materials are to be reused.	The site is located off Lickers Lane approximately 1.0 km to the south of Whiston and approximately 13.0 km east of Liverpool City Centre. The site as a whole is proposed for a residential development comprising 239 No. two to three storey properties across the Phase 1 and Phase 2 site areas with landscaping, carriageways, bioretention areas and a pumping station. The Phase 1 area of the site to which this MMP applies comprises
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	158 No. houses. The proposed development is shown on Drg No. MR-M-DWG-11 Rev I produced by Stantec UK Ltd, together with the area of Phase 1. The Site as a whole is approximately 9.5 hectares in area and is at an elevation of around 43-48m AOD. The site comprises cropped grassland with sporadic vegetation in the north and bunds present on site to the south with evidence of dirt biking and off road driving taking place. The site has remained undeveloped fields from earliest reviewed mapping dated 1850, however it is known that the site has a history of coal mining prior to this date. The Phase 1 area is approximately 5.6 hectares. The Phase 1 area project comprises the necessary earthworks to provide the formation levels for the construction of 158 two & three storey dwellings with associated soft landscaping, gardens and access roads. Materials will be excavated, segregated, and tested for suitability prior to their reuse on site. This process will be carried out in accordance with the "Remediation Strategy and Verification Plan", dated June 2024, prepared by Wardell Armstrong LLP. Cut and fill will be carried out at the site in order to achieve the required formation levels for construction of the development. Suitable excavated material will be retained on site for use in fill operations while unsuitable or excess material will be removed off-site. Topsoil and natural superficial deposits will be stripped, placed into temporary stockpiles and then re-used. The natural superficial deposits will be used within fill areas and as subsoil where a clean cover system is required, and the topsoil will be re-used in gardens and landscaped areas.
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	Due to historic coal mining across the site isolated pockets of made ground are likely to be present. Where these are encountered, they will be excavated separately and tested to determine their suitability for re-use beneath a clean cover if required. Where made ground materials are found to be unsuitable for re-use, or are excess to fill requirements, they will be removed from site . A cut and fill of the site prepared by AJP Consulting Engineers (Drg No. HGV-AJP-XX-00-DR-C-1411 Rev P03 (Appendix A) shows a fill volume of 11,844m³ required to form proposed site levels, with a total cut from the site of 27,889m³. An overall net surplus of 16,045m³ will be generated from the site. The cut and fill volumes were calculated based on the total areas and the depth of the construction, taking into account roads, footways, bioretention areas, gardens, landscaping and driveways. The approved finished levels for the site used to generate the cut and fill volumes are shown on Drg No. HGV-AJP-XX-00-DR-C-1400 Rev P09 prepared by AJP Consulting Engineers (Appendix A), together with existing site levels. On the basis of the cut and fill model the volumes of material that will be generated are approximately: Topsoil – 15,250 m³, of which 4,450 m³ will be reused in gardens and soft landscaped areas, leaving a surplus of approximately 10,800 m³. Natural superficial deposits – 14,800 m³, of which 10,800 m³ will be reused in gardens and soft landscaped areas, leaving a surplus of approximately 4,000 m³. Made Ground – 1,250 m³. It is anticipated that the made ground materials will not be required to be re-used on site, leaving a surplus of approximately 1,250 m³.
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	Planning permission for the wider development site has been granted (under LPA Ref: 20/00399/OUT included within Appendix B), and Countryside Partnerships Merseyside and Cheshire West intend to re-use site won materials within fill areas, and site won topsoil and subsoil within gardens and soft landscaping areas. It is the intention that excess topsoil and natural superficial deposit materials are to be exported under future Direct Transfer arrangements, under the DowCoP to other (preferably nearby) Receiver development site(s), requiring this material to achieve/satisfy specified development formation levels/soft cover requirements. Full details of these Receiver site(s) to be added in future revision(s) of this MMP or in the MMP(s) produced by the individual Receiver Site(s), once identified.
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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 treated (if applicable) and where materials are to be reused.	Plan Document Reference(s): Receiver Site – Halsnead Garden Village GM13232-001 – Halsnead Garden Village Site Location Plan MR-M-DWG-03 – Site Layout - Halsnead Garden Village (Appendix C) HGV-AJP-XX-00-DR-C-1411 – Cut and Fill Total Areas Plan Phase 1 – Halsnead Garden Village areas requiring placement of imported clean cover soils. (Appendix A) HGV-AJP-XX-00-DR-C-1400 Rev P09 – Finished Levels and Retaining Walls Masterplan (Appendix A)
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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: The topsoil and subsoil materials will be excavated from validated areas of the site and placed into temporary stockpiles. The stockpiled materials will then be re-used on site in soft landscaping areas and gardens - see HGV-AJP-XX-00-DR-C-1411 – Cut and Fill Total Areas Plan Phase 1. A schematic of stockpiles on the site has been provided by the groundworkers contractor, attached as Appendix G with yellow representing a subsoil/natural superficial soils stockpile and orange representing a topsoil stockpile. Suitable site won materials will be used directly from cut areas and placed into fill areas as required prior to placement of required subsoil and topsoil materials. Made Ground materials will be segregated and placed into temporary stockpile prior to testing and either removal from site if unsuitable or re-use immediately if suitable and required.
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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.	MV Kelly, Unit 4B, Birchwood One Business Park, Dewhurst Road, Birchwood, Warrington, 01925 988340
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8b. Main earthworks contractor(s) (full address and contact details) - Where excavated materials are arising from.	MV Kelly, Unit 4B, Birchwood One Business Park, Dewhurst Road, Birchwood, Warrington, 01925 988340
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.	N/A
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 applicable)).	TBA
11. Provide Local Authority contact details (full address and named contacts) where excavated materials are to be reused.	Helen Bradshawe Knowsley Council Knowsley Metropolitan Borough Council Municipal Buildings Huyton L36 9UX
12a. For the site where materials are to be reused and for Hub Site locations provide	Environment Agency Richard Fairclough House

Environment Agency contact details (full address and named contacts):	Knutsford Road Latchford Warrington Cheshire WA4 1HT Lee Beveridge - Technical Specialist, Groundwater, Hydrology & Contaminated Land team Tel: 02030250768 Email: lee.beveridge@environment-agency.gov.uk
For all Cluster Projects: 12b. Attach any relevant documentation from the EA relating to the excavation and reuse of the materials to demonstrate no objection to the proposals (see 3.37 of DoW CoP) If the EA has not been consulted please explain why (see paragraph 3.39 of the DoW CoP).	EA references: N/A – site is not a Cluster Project

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

13. Please describe or provide copies of the required specification(s) for the materials to be reused on each site.	Document Reference(s): The suitability of the stripped topsoil and subsoil material for re-use as clean cover materials at Halsnead Garden Village was determined by field and laboratory analysis detailed within the “Ground Investigation Report” prepared by Wardell Armstrong, dated August 2023 included within Appendix D. The investigation recorded isolated pockets of made ground across the site from historic coal mining, however the report states that ‘the overall risk associated with soil contamination is low’. The future use of the materials on the Halsnead Garden Village Site will be in accordance with the “Remediation Strategy and Verification Plan”, dated June 2024, prepared by Wardell Armstrong LLP (see Appendix E), refer to Sections 6.1, 6.2 and 6.3. Materials to be re-used on site shall comply with the following assessment criteria:
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Table 1: First Generation (Greenfield) Imported Soils Chemical Acceptance Criteria

Contaminant	Acceptance Criteria (mg/kg)	Source
Arsenic	37	C4SL Residential with Plant Uptake
Cadmium	22	C4SL Residential with Plant Uptake
Chromium Total	910	S4UL Residential with Plant Uptake
Chromium VI (Hexavalent)	21	C4SL Residential with Plant Uptake
Copper	2400	S4UL Residential with Plant Uptake
Lead	200	C4SL Residential with Plant Uptake
Mercury	40	S4UL Residential with Plant Uptake
Nickel	180	S4UL Residential with Plant Uptake
Selenium	250	S4UL Residential with Plant Uptake
Zinc	3700	S4UL Residential with Plant Uptake
Asbestos Screen and Quantification	***	***
pH	***	***
FOC	***	***
Polycyclic Aromatic Hydrocarbons		
naphthalene	2.3	S4UL*
acenaphthylene	170	S4UL*
acenaphthene	210	S4UL*
fluorine	170	S4UL*
phenanthrene	95	S4UL*
anthracene	2400	S4UL*
fluoranthene	280	S4UL*
pyrene	620	S4UL*
benz[a]anthracene	7.2	S4UL*
chrysene	15	S4UL*
benzo[b]fluoranthene	2.6	S4UL*
benzo[k]fluoranthene	77	S4UL*
benzo[a]pyrene	2.2	C4SL*
indeno[1,2,3-cd]pyrene	27	S4UL*
dibenz[a,h]anthracene	0.24	S4UL*
benzo[ghi]perylene	320	S4UL*

*(assumes 1% SOM)

*** No acceptance Criteria Available

Table 2: Second Generation (Recycled/Brownfield) Imported Soils Chemical Acceptance Criteria

Contaminant	Acceptance Criteria (mg/kg)	Source
Arsenic	37	C4SL Residential with Plant Uptake
Cadmium	22	C4SL Residential with Plant Uptake
Chromium Total	910	S4UL Residential with Plant Uptake
Chromium VI (Hexavalent)	21	C4SL Residential with Plant Uptake
Copper	2400	S4UL Residential with Plant Uptake
Lead	200	S4UL Residential with Plant Uptake
Mercury	40	S4UL Residential with Plant Uptake
Nickel	180	S4UL Residential with Plant Uptake
Selenium	250	S4UL Residential with Plant Uptake
Zinc	3700	S4UL Residential with Plant Uptake
Asbestos Screen and Quantification	***	***
pH	***	***
FOC	***	***
Total Petroleum Hydrocarbons (TPH)		
Aliphatic EC 5-6	42	S4UL*
Aliphatic EC >6-8	100	S4UL*
Aliphatic EC > 8-1	27	S4UL*
Aliphatic EC > 10-12	130 (48)v	S4UL*
Aliphatic EC > 12-16	1100 (24)s	S4UL*
Aliphatic EC > 16-35	65000 (8.48)s	S4UL*
Aromatic EC 5-7 (benzene)	70	S4UL*
Aromatic EC > 7-8 (toluene)	130	S4UL*
Aromatic EC > 8-10	34	S4UL*
Aromatic EC > 10-12	74	S4UL*
Aromatic EC > 12-16	140	S4UL*
Aromatic EC > 16-21	26	S4UL*
Aromatic EC >21-35	1100	S4UL*
Benzene	0.087	C4SL*
Toluene	130	S4UL*
Ethyl benzene	47	S4UL*

Contaminant	Acceptance Criteria (mg/kg)	Source
O-Xylene	60	S4UL*
M-Xylene	56	S4UL*
P-Xylene	56	S4UL*
Polycyclic Aromatic Hydrocarbons		
naphthalene	2.3	S4UL*
acenaphthylene	170	S4UL*
acenaphthene	210	S4UL*
fluorene	170	S4UL*
phenanthrene	95	S4UL*
anthracene	2400	S4UL*
fluoranthene	280	S4UL*
pyrene	620	S4UL*
benz[a]anthracene	7.2	S4UL*
chrysene	15	S4UL*
benzo[b]fluoranthene	2.6	S4UL*
benzo[k]fluoranthene	77	S4UL*
benzo[a]pyrene	2.2	C4SL*
indeno[1,2,3-cd]pyrene	27	S4UL*
dibenz[a,h]anthracene	0.24	S4UL*
benzo[ghi]perylene	320	S4UL*

*(assumes 1% SOM)

** Please note that this assessment criteria exceeds its lower saturation limit (indicated in brackets). The largest value should be used as a screening value, however, if the contamination is free phase, i.e. the oil contamination is visible and discernable from the soil matrix, then the lower value should be used and further assessment will be required.

*** No Acceptance Criteria Available

Where contamination is suspected or known to be present 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:	Document Reference(s): Section 7.2.2 of the 'Ground Investigation Report', dated August 2023 prepared by Wardell Armstrong (Appendix C) concludes that the made ground can remain on site providing it is beneath a cover system and/or hardstanding. Section 6.1.4 of the "Remediation Strategy and Verification Plan", dated June 2024, prepared by Wardell Armstrong LLP (Appendix E) details the proposed clean cover system.
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)	LA Document references: The remediation strategy and remediation criteria for the development of the Halsnead Garden Village Site have been approved under planning permission LPA Ref: 20/00399/OUT. Knowsley Council Planning Consultation Response dated 2 July 2024 (Appendix B) states that the "Remediation Strategy and Verification Plan", dated June 2024, prepared by Wardell Armstrong LLP '<i>addresses the queries raised in my memo dated 24 May 2024 (points 3 to 9 inclusive) relating to made ground, the clean cover system and re-use and validation of site won and imported soils</i>'.

14c. Please attach any relevant documentation from the EA relating to the excavation and reuse of the materials to demonstrate no objection (see 3.37 and Table 2 of the CoP)	EA Document references: Please refer to planning permission 20/00399/OUT Agenda item 3b 'Officer Report' which details in Section 7 that the Environment Agency had no objection to the development following consultation (Attached within Appendix B).
14d. Please attach any relevant 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)	Document Reference(s): N/A

Where contamination is not suspected 15a. Please attach copies or relevant extracts from the Desk Top Study that demonstrates that there is no suspicion of contamination.	Document Reference(s): The Halsnead Garden Village site has been the subject to a "Desk Study Assessment Report" prepared by Brownfield Solutions Ltd., dated July 2017, ref: LC/C3593/7001 (see Appendix D) which details the location, historical use and general geo-environmental condition of the Halsnead Garden Village Site. Based on the site history it is considered that the Halsnead Garden Village site can be classified as a 'greenfield' site that has not been significantly impacted by contamination, and as stated in the "Remediation Strategy and Verification Plan", no significant contamination was found during any of the ground investigations.
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	The topsoil will be stripped and stockpiled on the Halsnead Garden Village site, under the agreed Remediation Strategy. The topsoil and subsoil will be stockpiled on site according to the schematic prepared by MV Kelly attached as Appendix G. The results testing undertaken during the site investigation works are in accordance with the required specification for future use detailed in the “Remediation Strategy and Verification Plan”, dated April 2024, prepared by Wardell Armstrong LLP (Appendix E). Should any materials be exposed that are made ground or suspected to be potentially contaminated these will be tested in accordance with the Remediation Strategy and Verification Plan dated June 2024 (Appendix E) and if assessed as being unsuitable for re-use on site will be disposed of off-site.
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): “Desk Study and Ground Investigation Report”, dated July 2017, by Brownfield Solutions Ltd. for Halsnead Park, Whiston (Ref: LC/C3593/7001) (Within Appendix D) “Ground Investigation Report”, dated August 2023, by Wardell-Armstrong LLP (Ref: GM11373-RPT-003) (Appendix D) “Remediation Strategy and Verification Plan”, dated June 2024, by Wardell-Armstrong LLP for Countryside Partnerships Merseyside and Cheshire West (Ref: GM13232 Halsnead Remediation Strategy v2.0). (Appendix E)
15c. Please attach copies of any other relevant information (if available) confirming that land contamination is not an issue.	Document Reference(s) N/A

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
- 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**.

16a. Planning Permission(s) relating to the site where materials are to be reused. Please provide a copy of the relevant planning permission	Document Reference: It is intended in the future to use the site won material within the future residential development. LPA Ref: 20/00399/OUT relates to the development of up to 277 dwellings. The application was considered by the Council's Planning Committee on 01/08/23 and approved.
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16b. Explain how the reuse of the excavated materials fits within the planning permission(s) for each site.	Planning permission for the wider site has been granted under 20/00399/OUT and relates to the development of up to 277 dwellings (Appendix B). The approved finished levels for the site used to generate the cut and fill volumes are shown on Drg No. HGV-AJP-XX-00-DR-C-1400 Rev P09 prepared by AJP Consulting Engineers (Appendix A), together with existing site levels. The approved finished levels are also shown on the following Drawings (Appendix A) referenced within the Planning Permission (Appendix B): HGV-AJP-XX-00-DR-C-1401 REV P09 HGV-AJP-XX-00-DR-C-1402 REV P09 HGV-AJP-XX-00-DR-C-1403 REV P09 HGV-AJP-XX-00-DR-C-1404 REV P09 The existing site levels recorded on the above drawings indicate that to achieve the approved proposed finished levels cut and fill is required across the site. Due to the requirement for cut & fill on the site to attain suitable consented development levels and the re-use of materials on the site the “Remediation Strategy and Verification Plan”, dated November 2020, prepared by Wardell Armstrong LLP (see Appendix E) for the proposed development requires the re-use of excavated materials from cut areas within fill areas and the placement of clean cover soils within gardens and soft landscaped areas.
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	Prior to use, all materials to be re-used under this MMP would be tested in to confirm suitability for use in accordance with the Remediation Strategy and Verification Plan (see Appendix E).
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.	N/A
Where contamination is suspected or is known to be present 17. Please provide a copy of any Remediation Strategy(ies) that have been agreed with relevant regulators.	Document Reference(s): For the future residential development, a "Remediation Strategy and Verification Plan", dated June 2024, has been prepared by Wardell Armstrong LLP (see Appendix E).

Where contamination is not suspected 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).	Document Reference(s): “Desk Study and Ground Investigation Report”, dated July 2017, by Brownfield Solutions Ltd. for Halsnead Park, Whiston (Ref: LC/C3593/7001) “Ground Investigation Report”, dated August 2023, by Wardell-Armstrong LLP (Ref: GM11373-RPT-003) “Remediation Strategy and Verification Plan”, dated June 2024, by Wardell-Armstrong LLP for Countryside Partnerships Merseyside and Cheshire West (Ref: GM13232 Halsnead Remediation Strategy v2.0)
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Quantity of Use

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. Where this is not specific to a single readily identifiable source refer to an annotated plan, schematic or attach a tabulated summary.	Document Reference(s): There are suitable clean cover soils present on the site and it is therefore proposed that cuts of clean cover soils from the site will be reused within gardens and soft landscaping. Cut materials will also be used as engineered fill to external area and SUDS areas on site. The soils will be placed within gardens and areas of soft landscaping highlighted on drawing titled ‘Cut and Fill Total Areas Plan Phase 1’ produced by AJP Consulting Engineers for Your Housing Group, drawing reference HGV-AJP-XX-00-DR-C-1411 dated December 2022 included within Appendix A The thickness of soils placed will be undertaken in accordance with the proposed cover system detailed in Section 6.1 of the Remediation Strategy and Verification Report (see Appendix E).
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	On the basis of the cut and fill model the volumes of material that will be generated are approximately: Topsoil – 15,250 m³, of which 4,450 m³ will be reused in gardens and soft landscaped areas, leaving a surplus of approximately 10,800 m³. Topsoil will be excavated from across the whole of the site and re-used in garden and soft landscaped materials. Any excess will be exported from site. Natural superficial deposits – 14,800 m³, of which 10,800 m³ will be reused in gardens and soft landscaped areas, leaving a surplus of approximately 4,000 m³. Natural superficial deposits will be excavated from across the whole of the site and re-used as 'subsoil' in garden and soft landscaped materials. In addition, the natural superficial deposits may also be used as engineering fill beneath buildings, roads and areas of hardstanding. Any excess will be exported from site. Made Ground – 1,250 m³. The made ground is present across the site in small isolated pockets which are not. It is anticipated that the made ground materials will not be required to be re-used on site, leaving a surplus of approximately 1,250 m³. Any excess will be exported from site.
20a. How has consolidation/compaction being considered in the above mass balance calculations?	No allowance has been made for consolidation/compaction as the excavated quantities have been assessed on pre-excavation areas and it has been assumed that any bulking

	during excavation/stockpiling will be negated by consolidation/compaction during placement.
20b. How has loss due to treatment being considered in the above mass balance calculations (if applicable)?	N/A – no treatment is required
20c. How has the addition of treatment materials being considered in the above mass balance calculations (if applicable)? Note - An exact figure is not required but one that is reasonable in the circumstances and can be justified if challenged.	N/A – no treatment is required

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: Any out of specification material will be disposed of off-site by a licenced haulier in accordance with all current regulatory requirements and records of their disposal retained. As the material will remain within the ownership of Countryside Partnerships
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	Merseyside and Cheshire West at all times, the responsibility for payment of this disposal will be with Countryside Partnerships Merseyside and Cheshire West.
21b. What is to happen to, and who is to pay for any excess materials?	Reference: The Earthworks Calculations estimate that there will be an excess of materials on the site and therefore there is a need to remove such materials after completion of earthworks. It will be the responsibility of Countryside Partnerships Merseyside and Cheshire West to arrange for their removal in accordance with all applicable waste legislation or under a Materials Management Plan. It is the intention that excess topsoil and natural superficial deposit materials are to be exported under future Direct Transfer arrangements, under the DowCoP to other (preferably nearby) Receiver development site(s), requiring this material to achieve/satisfy specified development formation levels/soft cover requirements. Full details of these Receiver site(s) to be added in future revision(s) of this MMP or in the MMP(s) produced by the individual Receiver Site(s), once identified. Any excess soils will be stored in the temporary stockpiles shown on the schematic of stockpiles attached as Appendix G, with yellow representing a subsoil/natural superficial soils stockpile and orange representing a topsoil stockpile. Any stockpiles will be tracked over to protect/seal them. Any excess soils will be removed within 2 years of excavation.
21c. What happens if the project programme slips in relation to excavated materials or materials under -going treatment?	Reference:

	The groundworks programme will remain live and evolve as the project develops. Countryside Partnerships Merseyside and Cheshire West will deal with any risk to programme as they arise and seek professional advice for anything that affects compliance with the DoWCoP and this MMP.
21d. Other identified risk scenarios for the project (relating to excavated materials)?	Reference: Stockpiled materials are to be correctly sealed to prevent waterlogging and soil degradation during periods of heavy/sustained rainfall.

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.	Countryside Partnerships Merseyside and Cheshire West will maintain a detailed record of the excavation and the placement of materials, including: • Records of volumes and types of material excavated and imported to site including waste transfer tickets/consignment notes; • Ongoing record of volume of material stored in temporary stockpile area and placed on the site; • Daily description of material used during the works including volumes and locations placed and annotated plans;
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	• Description of material type including visual and olfactory description and photographic records • Record of placement methodology. <u>Unsuitable Material</u> Records and description of any materials considered unsuitable including location of any temporary stockpiles, any compliance testing undertaken and when and where the materials are disposed of from site. An example of the tracking form to be used is attached at Appendix F.
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	No treatment proposed. Any contaminated soils that have been identified as not being suitable for re-use on site will be disposed of from site at an appropriately licenced facility.
Where contamination is suspected or known to be present, state the procedures put in place to: 22c. Prevent cross contamination of materials not in need of treatment, wastes awaiting treatment and treated materials	Stockpiles to be carefully managed on site. If contaminated soils are suspected these will be stockpiled separately and undergo chemical testing. Where materials are determined to be unsuitable for use they will be removed from site as soon as possible.

Where contamination is suspected or known to be present, state the procedures put in place to: 22d. Demonstrate that materials that do not require treatment and successfully treated materials reach their specific destination	All materials will be stockpiled on site and then tested in accordance with the frequency and testing suite detailed in the “Remediation Strategy and Verification Plan” (see Appendix E). A tracking & control procedure will be undertaken to monitor materials movements from stockpiles to proposed areas of use. Validation Reports for the clean cover soils to garden and soft landscape areas will be produced in accordance with the “Remediation Strategy and Verification Plan” (see Appendix E).
Where contamination is suspected or known to be present, state the procedures put in place to: 22e. Ensure that waste for off-site disposal or treatment is properly characterised and goes to the correct facility	Where unsuitable materials are designated for offsite disposal, this material will be separated, tested and disposed of from site by a reputable contractor with an accurate record of the volumes, dates and destination of disposal being made, including waste transfer tickets to comply with Duty of Care regulations. As part of any off-site disposal processes, provision of test certificates, waste haulage and transfer notes (including weigh bridge tickets) will be required. This will confirm the nature, quality and quantity of the waste that has been disposed off-site and the location of its disposal point. If disposal is required, this information is to be provided as part of the relevant validation report documents.

23. Please attach a copy of the tracking forms / control sheets that are to be used to monitor materials movements. To include transfer of loads on site into stockpiles prior to treatment (if applicable), stockpiled after treatment (if applicable), stockpiled awaiting use (as appropriate) and final placement.	Document reference(s): It is intended that excavated materials will be transferred and stockpiled on site prior to being used directly as part of the clean cover soils. Based upon the ground investigation, no contamination is suspected within the materials. If unsuitable material is encountered, this will be separated, tested and disposed of from site by a reputable contractor with an accurate record of the volumes, dates and destination of disposal being made. Detailed Records will be made in accordance with section 22 above An example of the tracking form to be used is attached at Appendix F.
For Hub Sites within Cluster Projects & where materials need treatment before reuse 24. Please attach a copy of the Environmental Permit covering the treatment process. Alternatively if the treatment is covered by a Mobile Plant Permit and associated Deployment Form, attach a copy of the EA agreement to the Deployment Form.	Permit reference / EA letter reference: N/A

Records

25. Where, and in what form, are records to be kept? 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	Countryside Partnerships Merseyside and Cheshire West will maintain the record of the movement of materials between the sites. This will be kept on site for the duration of the works and at their offices. A Validation Engineer will visit the sites during the transfer and reuse of the material to observe the site works and ensure the material and its use is being undertaken in accordance with this Material Management Plan and the “Remediation Strategy and Verification Plan”. Countryside Partnerships Merseyside and Cheshire West will maintain the Material Management Plan, transfer records and Validation Reports for a minimum of 2 years (paper and/or electronic).
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Verification Plan

26. Provide or explain the Verification Plan which sets out how you will record the	Document Reference:
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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).	The quality of the reused material will be recorded through the Tracking System as detailed in Section 23. On completion of the cut and fill works and placement of engineered fill and clean cover soils to gardens and landscaped areas, the Validation Report will include the following: • Copies of regulatory correspondence; • A photographic record of works undertaken; • Material tracking and volume confirmation of material to be re-used; • Copy of Delivery Tickets relating to soils from the main site transported by road; • Copy of Delivery Tickets relating to the movement of any wastes to a licensed waste management facility if disposal is required; • Chemical test results and assessment confirming suitability; • Details of Qualified Persons signed declaration. On completion of the placement works a Verification Report will be completed as instructed by Countryside Partnerships Merseyside and Cheshire in accordance with the guidelines contained in the Code of Practice.
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