



- Legend:
- Landfill Planning Permission boundary following Modification Order
 - SSSI/SAC boundary
 - Limit of landfilling
 - Proposed post-settlement restoration contours (mAOD)
 - Survey contours (mAOD)
 - Existing (retained) mature woodland and trees
 - Proposed areas of native woodland
 - Pastoral agricultural grassland restoration (managed as meadow and pasture)
 - Proposed new hedgerows
 - Access track
 - Proposed survey water ditches
 - Proposed and existing surface water attenuation ponds
 - Approximate routing of existing amphibian exclusion fencing (to be removed upon completion of restoration)

Notes:

Waste will be tipped to pre-settlement levels to allow for capping layer and 1.5m depth of soils over landfilled area such that settlement will result in the landform shown with intended final gradients generally ranging between 1:5 and 1:20 across the Site

Final Revision:	Date:	Description:	By:	Chk:
-	-	-	-	-

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Site: **Hafod Quarry Landfill**

Drawing Title: **Landscape Masterplan**

Date: 28 July 2010	Scale: 1:1,750	Paper Size: A2
Drawn By: KJ	Checked By: BS	Status: FINAL
CAD Ref: CE-HF-0238-DW01a - FINAL	Drawing No: CE-HF-0238-DW01a	Final Revision: a

Areas to be sown to grassland will be sown with the mix indicated below following testing of the final soils and amelioration via ripping, secondary cultivations and chemical rectification where required. A pre-seeding fertiliser will be added if required to promote early establishment.

English name	Latin name
Autumn hawkbit	<i>Leontodon autumnalis</i>
Bird's-foot-trefoil	<i>Lotus corniculatus</i>
Common bent	<i>Agrostis capillaris</i>
Common knapweed	<i>Centaurea nigra</i>
Crested dog's-tail	<i>Cynosurus cristatus</i>
Meadow buttercup	<i>Ranunculus acris</i>
Meadow vetchling	<i>Lathyrus pratensis</i>
Ox-eye daisy	<i>Leucanthemum vulgare</i>
Red clover	<i>Trifolium pratense</i>
Red fescue	<i>Festuca rubra</i>
Ribwort plantain	<i>Plantago lanceolata</i>
Sweet vernal-grass	<i>Anthriscus odoratum</i>
White clover	<i>Trifolium repens</i>
Yellow rattle	<i>Rhinanthus minor</i>
Yarrow	<i>Achillea millefolium</i>
Yorkshire-fog	<i>Holcus lanatus</i>

Ditches positioned to provide 1:250 minimum (post-settlement) gradient along length whilst maximising catchment area

Retained SSSI / SAC area (Woodland within shown indicatively as taken from aerial photographs) - no works proposed in this area

Additional woodland planting

Area kept clear of vegetation to allow ongoing access to monitoring boreholes and surface water pipework etc.

Existing (retained) mound

Discharge consent point 2

Downscaled access track for field, pond and environmental management infrastructure maintenance

Additional pond space to allow for surface water attenuation

Surface water 'cut-off grip'

Woodlands to be planted at 2m staggered centres using a combination of transplants and pot grown stock (40-60cm) with species to include: ash, blackthorn, holly, field maple, gean, goat willow, hazel, hawthorn, pedunculate oak, rowan, guelder rose, silver birch and dogwood.

Hedgerows to be planted in a double staggered row (6 plants per linear metre) using hazel, hawthorn, blackthorn, holly, guelder rose and dogwood with pedunculate oak, field maple and ash hedgerow trees.

All planting will be protected from browsing using a combination of individual shelters and stock/rabbit proof fencing.

All areas will be maintained for five years upon implementation of restoration features in each area and phase of working. Woodland and hedgerow areas will be maintained by keeping a weed-free zone up to 0.5m from each plant in accordance with best practice.

Grassland areas will be maintained to ensure noxious weeds are treated and that the sward diversity is maintained via a combination of hay cutting (in late July) and/or grazing (if cattle are available) or via a second cut in late September/early October. Failed areas will be resown.

Discharge consent point 1

Location of permitted landfill gas utilisation compound