



# Package 3 Longwood Catchment (Deanhead, Close Moss, Cupwith Hill Pule, Bobus, Wessenden) Whole Site Works Package

# **Table of Contents**

List of Ta	bles	2
List of fig	ures	2
	-ks Quantities	
	rks Dates	
2.1.	General Start Date:	5
2.2.	General End Date	5
2.3.	Restricted Dates	5
2.4.	Works Phasing	5
3. Wor	k Site Details	7
3.1.	Work Site Name:	7
3.2.	Work Site Grid Reference (approximate centre)	7
3.3.	Description of location:	7
3.4.	Description of Sites	9
3.5.	Land ownership	9
4. Acce	PSS	9
4.1.	Specified Vehicle Access Points:	9
4.2.	Specified lift site points	11
4.3.	Specified pedestrian access point	12



	4.4.	Public Rights of Way / Footpaths:	12
	4.5.	Overall Access Restrictions :	12
5.	Mat	erial Supply	12
	5.1.	Brash Supply	13
	5.2.	Timber Supply	13
	5.3.	Stone and Coir Logs Supply	13
	5.4.	Supply of Sphagnum Moss plugs and Vascular Plug Plants	13
	5.5.	Supply of Lime, Seed and Fertiliser	13
	5.6.	Supply of Seed	13
	5.7.	Construction of bunds	14
6.	Add	litional Information	14
	6.1.	Livestock:	14
	6.2.	Hazards associated with the Works Site:	14
	6.3.	SSSI	14
	6.4.	Scheduled Ancient Monuments and other Archaeology	15
	6.5.	Exclusion Zones	15
7.	Map	OS	15
	of Ta		
Tabl	e 1: Q	uantities of each treatment type by site being delivered by the contractors	3
Tabl	e 2 Su	gested Outline Works Phasing for Contractor	5
Tabl	e 3: Inf	ormation relating to proposed vehicle access routes	10
Tabl	e 4: Inf	ormation relating to proposed primary lift sites	11
Tabl	e 5: N	umber of individual bunds per site	14
l ist	of fig	iures	
Figui	re 1 In:	set map of SSSI units at the work site	8



# 1. Works Quantities

Table 1 shows the proposed work quantities for those techniques that are going to be delivered by the contractor in the Longwood Water Treatment Catchment area by site. Section B Item 7 in the main body of the tender focuses on the conditions that the Contractor must abide by during the installation and construction of the works.

Table 1: Quantities of each treatment type by site being delivered by the contractors

Treatment	Deanhead	Close Moss	Cupwith Hill	Bobus and Pule	Butterly	Wessenden	Grand Total
Brash (Bags)	181				72		253
Bunding (ha)	27	72.78	16.54	54.3	43	4.7	252.6
Initial Lime, Seed & Fertiliser (total) ha	1.74			1.15	0.4	0.02	3.3
Maintenance Lime and Fertiliser (total) ha	0.89			1.15	0.4	0.02	2.4
Re-profiling (m)	2,023	797		80.25		298	2321.12
Sphagnum planting behind bunds (@1250 per ha) (ha)		72.8	16.5	54.3		4.7	148.3
Sphagnum planting in cuts (@1250 per ha) (ha)	8.4	73.6			65.2		172.92
Standard Sphagnum planting (@1250 per ha) (ha)			6				6
Sedge/dwarf shrub Plug plants (@2,500 per ha) (ha)	8.64				0.49		9.13
Grip/Gully Blocking: Peat (Dam)	520	15		3	13	112	663
Grip/Gully Blocking: Low Peat (Dam)	101					69	170
Grip/Gully Blocking: Timber (Dam)	66						66
Grip/Gully Blocking: Stone (Dam)	106	221	23	116	37	330	833



Grip/Gully Blocking: Coir	182			5		68	255
(logs)							
Molinia Cutting Y1 (ha)	8.4	73.6	0.4		65.1		148
Molinia Cutting Y2 (ha)	8.4	73.6	0.4		65.1		148
Cutting Heath (ha)			3.2				3.2

Please refer to the main Tender "MFF 133 2022-2025 Whole Site Works" Appendix 9 for the Standard works specifications. All work highlighted in this package must be delivered to the specification highlighted in Appendix 9.



### 2. Works Dates

2.1. General Start Date: 15 August 2022

2.2. General End Date 31st March 2024

### 2.3. Restricted Dates

Nesting bird season Year 1: 1st April 2022 to 15th August 2022 Nesting bird season Year 2: 1st April 2023 to 15th August 2023

General dates: There maybe days within the works season that are restricted due to landowner requirements, these will be discussed with the contractor if and when they occur.

Section C item 10 in the main body of the contract focuses on the conditions associated with restricted dates. The Contractor must adhere to these conditions.

# 2.4. Works Phasing

Table 3 below provides suggested outline phasing/timing of the different works elements. These are based on completing the works within the dates stipulated in section 2.1, 2.2 and 2.3. The Contractor is required to provide their proposed detailed programme for the works as part of the tender.

Table 2 Suggested Outline Works Phasing for Contractor

Technique	Sites	Suggested Timescales		
		Year 1	Year 2	
Contractor prepares CDM and HSSE and any other relevant documents	All sites	May to July 2022		
Re-profiling	Close Moss, Deanhead, Pule and Bobus, Wessenden	August 2022 – October 2022		
Peat Dams and Low Peat Dams	Butterly, Close Moss, Cupwith Hill, Deanhead, Pule and Bobus, Wessenden	August 2022 – January 2023		
Bunding	Butterly, Close Moss, Cupwith Hill, Deanhead, Pule and Bobus, Wessenden	There is scope to undertake part / all of this task in year1 year if time and resources permit.	August 2023 – March 2024	
Heather cutting	Cupwith Hill	August 2022		
Brash Spreading	Butterly and Deanhead	August 2022 – November 2022		
Initial Lime Seed and Fertiliser spreading	Butterly and Deanhead	February 2022 – March 2023		



Maintenance Lime Seed and Fertiliser spreading	Butterly and Deanhead	N/A	February 2022 – March 2023
Installation of Heather Bales	Butterly and Deanhead	February 2022 – March 2023	
Installation of Timber Dams	Butterly, Cupwith Hill and Deanhead	February 2022 – March 2023	
Molinia Cutting	Deanhead, Close Moss, Cupwith Hill, Butterly	August 2022 – December 2022	
Follow up Molinia Cutting	Butterly, Close Moss, Deanhead, Pule and Bobus	N/A	August 2022 – December 2022
Sphagnum Planting behind bunds	Butterly, Close Moss, Deanhead, Pule and Bobus	N/A	February 2022 – March 2023
Sphagnum Planting into cuts	Close Moss, Butterly, Deanhead	N/A	February 2022 – March 2023
Standard Sphagnum Planting	Wessenden	February 2022 – March 2023	

Those techniques identified within section 2.1, 2.2 and 2.3 require a significant number of excavator days in order to complete within this works season. It is therefore envisaged that the contractor will need to have multiple vehicles on different sites at any one given time to ensure that the work package is delivered on time.



### 3. Work Site Details

### 3.1. Work Site Name:

The Longwood Water Treatment Catchment Works comprises a number of sites including; Deanhead, Close Moss, Cupwith Hill, Pule, Bobus, Wessenden. Map 1 below shows how each of the sites relate to each other and the location in the wider context of the area.

# 3.2. Work Site Grid Reference (approximate centre)

Butterly - SE 04843 09590 Deanhead - SE 02948 14444 Close Moss - SE 01803 11169 Cupwith Hill - SE 04180 13975 Pule and Bobus - SE 02616 09140 Wessenden - SE 04690 07599

## 3.3. Description of location:

The Longwood Water Treatment Works Catchment is located within the county of West Yorkshire. The catchment itself covers seven of Moors for the Future Partnership's working sites (Close Moss, Cupwith Hill, Deanhead, Bobus and Pule, Butterly and Wessenden), with Deanhead being the most northern site, located 3.5 km north west of the village of Marsden, and 8.6km south east of Littleborough. The Wessenden site is the most southerly of the sites which is located approximately 5km south west from the village of Meltham and 4.3km south of Marsden.

The Longwood Water Treatment Catchment encompasses a number of designations which includes the South Pennine Moors 'Special Area of Conservation' (SAC) and the Peak District Moors 'Special Protection Area' (SPA), and includes 22 different SSSI units.



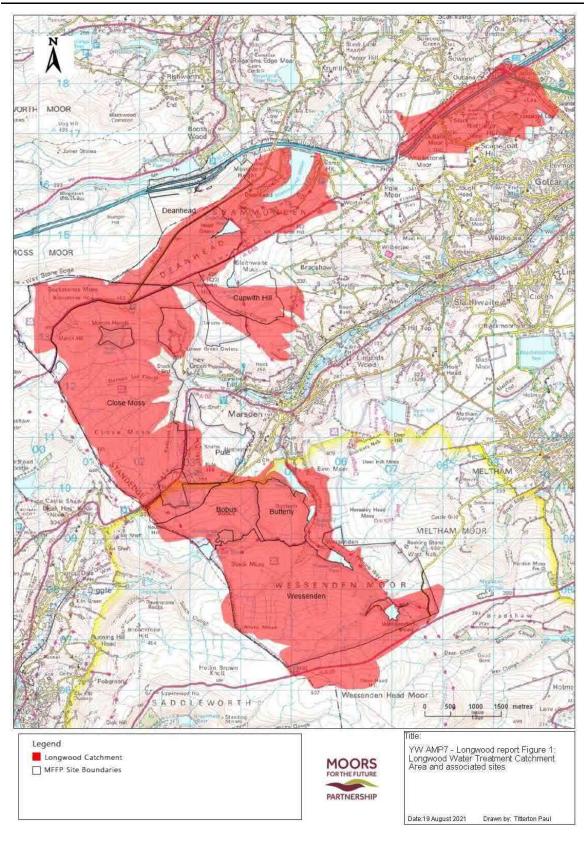


Figure 1 Inset map of SSSI units at the work site



# 3.4. Description of Sites

Butterly This site is dominated by Molinia across the whole site, the steep slopes around

the edge are dominated by Bracken and Rhododendron. There are limited gullies

on site, that are generally shallow.

Deanhead Primarily the site is classified as blanket bog. The site gently slopes from 463m

above sea level in the west then falls steeply into Deanhead Clough in the east. The steep slopes of the clough are classified as dry dwarf shrub heath and are on

shallow peaty sandstone soils.

Close Moss The site slopes from 451m in the west, and then slopes down to approximately

300m in the east. On the higher ground the habitat is dominated by cotton grass species. Whereas in the lower areas the site tends to be dominated by Molinia. There are numerous shallow and deep gullies, running West to East that will need

to be traversed by machinery.

Cupwith Hill The site is primarily dominated by Molina, with some areas dominated by heather.

There is a small number of gullies primarily running North East to South West.

Pule and Bobus The site is heavily dominated by Molinia except on the highest points where it is

dominated by heather. Gullies primarily run from the highest point in the centre to

the edges.

Wessenden This is dominated by different graminoid species, primarily common and hairs tail

cotton grass. The ground undulates at the highest point and there are a number of

steep gullies that run across the site both north to south and east to west. In

addition to this Shiny Brook runs from the east to west.

### 3.5. Land ownership

The Longwood Water Treatment Works involves working with a wide variety of stakeholders. This is because different sites are owned by different landowner including Yorkshire Water and the National Trust. Some sites also have agricultural tenants on them. The contractor will need to liaise with specific stakeholders in order to ensure a smooth deliver of the works within the timescales. They will need to abide by specific GDPR regulations where appropriate.

### 4. Access

The information on access is based upon the current conditions, it therefore may need to change if relevant agreements are not obtained. If this is the case we will need to discuss alternative arrangements with the contractor.

### 4.1. Specified Vehicle Access Points:

The proposed access points for machinery are identified within the maps below, with details provided in table 3 below. The contractor can suggest an alternative route onto the worksite but it must be in a way that maximises working efficiency, and reduces tracking across the site and avoid sensitive areas. This is to be discussed with the nominated officer ASAP on award on contract.



When looking at route all effort must be undertaken to reduce impact to the ground and sensitive features.

Table 3: Information relating to proposed vehicle access routes

Site	Butterly	Deanhead	Close Moss	Cupwith Hill	Pule, Bobus,	Wessenden
Gate(s) type	Forester gate	Pedestrian gates Forester gates Hurdles	Pedestrian gate, Forester gate	Pedestrian gate, Forester gate	None	Pedestrian gate
Gates locked	Yes – Key required from a private land owner and Yorkshire Water (YW)	Yes – Key required from private land owner	Yes – Key required from the NT	Yes – Key required from NT and private land owner	None	None
Access Restrictions	Access is from Pule and Bobus meaning vehicles are required to track 4km onto site	Access immediately adjacent to the A640 Huddersfield Road. Therefore traffic will need to be stopped	Some access points are immediately adjacent to the A640 Huddersfield Road. Therefore traffic on these sites will need to be stopped	Access immediately adjacent to the A640 Huddersfield Road. Therefore traffic will need to be stopped	Boggy ground on site, therefore bog mats maybe required in places	Access is from Pule and Bobus meaning vehicles require a 3km track onto site
	Boggy ground on site, therefore bog mats maybe required in places	Boggy ground on site, therefore bog mats maybe required in places	Boggy ground, therefore bog mats will be required for access from the A640	Depending on access route chosen there is a small ford vehicles will need to cross or a boggy field	Depending on access chosen a small ford may need to be crossed	Boggy ground on site, therefore bog mats maybe required in places
	Depending on access chosen a small ford may need to be crossed			333		Depending on access chosen a small ford may need to be crossed

Section B item 3 and where applicable item 6 in the main tender "MFF 133 2022-2025 Whole Site Works", focuses on the conditions which the contractor must adhere to for all sites identified within this package.



Access for excavators and other low ground pressure vehicles can be made at the access points and outline route as per the maps.

Contractors should also assess to their own satisfaction the exact route to be taken.

The Contractor is restricted to the specified storage areas notified to it by the Nominated Officer for the unloading, loading of Materials, parking of vehicles, and storage of Materials, fuels and oils.

# 4.2. Specified lift site points

Section B Item 6 in the main body of the tender "MFF 133 2022-2025 Whole Site Works" focuses on the conditions that the Contractor must adhere to during the delivery of the Works for the Transportation of materials to the site.

The lift sites associated with the individual sites are identified in the maps and table 5 below. Unless an issue arises, it is assumes that the primary lift site identified in the maps and in table 5 will be used.

Table 4: Information relating to proposed primary lift sites

Sites primary lift site serves	Close Moss, Cupworth Hill, Deanhead	Butterly, Wessenden Pule and Bobus
Grid reference	SE 01808 13622	SE 05549 08809
Description of location	An existing car park located at the junction of New Hey Road and Saddleworth Road	A layby on the track
Access Track / Road Surface	Tarmac,	Hard packed stone surface
Access Restrictions	None	A YW key maybe required for the gate that leads from Binn Road
Lift Site Surface	Tarmac and cobbled areas	Hard packed stone surface
Trackway Required	None	None
Storage of Materials allowed at lift site	Yes – Site approximately 50m by 17m	Yes – will be stacked along the trackway
Helicopter refuelling permitted:	Yes - Used as a lift site previously	Yes -Used previously for a lift site
Traffic management required	Yes – Lift site adjacent to the A640 Huddersfield Road	No – Although one property is located adjacent to the lift site which requires vehicle assess
PROW present	Yes – There are public footpaths leading out from the carpark down	Yes – A public right of way runs along the track used to access the site and on
	onto the moor	the adjacent side of the valley
Overhead Cables	None	None

As specified within the main tender "MFF 133 2022-2025 Whole Site Works". The contractor will be responsible for all marshalling of Aerial Load Lifting and material deliveries at the lift sites and works sites.



# 4.3. Specified pedestrian access point

Pedestrian access is presumed to be either along the public footpaths identified on the maps or following the same route as the machine access.

# 4.4. Public Rights of Way / Footpaths:

Contractor access is to be restricted to daylight hours only during the contract period.

Previous works have been undertaken on the site, including construction of peat dams and wider sphagnum planting. The contractor shall, so far as is practicable, avoid disturbing or damaging these completed works, although machine and pedestrian access across the wider areas previously subject to sphagnum planting is considered acceptable.

The Authority cannot confirm what rights there are (if any) to use any car parking or access routes or their suitability (whether of a safety nature or otherwise) for any use (including but not limited to in connection with the Works. Such information is for indicative purposes only and without any liability or obligation on the Authority. The Contractor agrees and confirms that it has not placed any reliance on such information and that it uses such car parking or access routes wholly at its own risk. Contractors should satisfy themselves as to the safety, suitability and rights to use such car parking and access routes.

### 4.5. Overall Access Restrictions:

Section C Item 4 in the main body of the tender, focuses on the conditions that the contractor and any sub-contractors must adhere to regarding access.

The sites within the Longwood Water Treatment Catchment is located within Access Land pursuant to the CRoW Act and there are informal paths in vicinity of the access route and across the works site. There are also more formal well used public rights of way across all the sites identified in the maps below. Therefore it is expected that the public will be present in areas where the works are taking place and the contractor must take appropriate measures when members of the public are in the vicinity. Additionally the sites are unsecured and must remain open to the public at all times. They should therefore be kept clear of debris and be left in a safe condition.

# 5. Material Supply

Section B Item 4, 5, 6 and 8, and section C item 3, 4, and 5 in the main tender "MFF 133 2022-2025 Whole Site Works" focuses on the conditions that the Contractor and any sub-contractors must adhere to for supply of materials and removal of waste materials. The information below outlines the specific information related to the Longwood Water Treatment Catchment.

The Contractor is required to sort the Materials into loads for transportation to the Works Sites. It is the Contractor's responsibility to ensure that the means of sorting the Materials into loads and the transportation of loads are suitable and safe.



# 5.1. Brash Supply

The contractor is required to cut & supply a total of 253 bags of Heather Brash from Cupwith Hill as identified by the authority.

The amount of heather cutting on Cupwith Hill is identified in table 1 above, and comprises part of the work identified on site. It is intended that this brash is supplied to the neighbouring sites, therefore the material can be flown straight from the cutting site to the drop location.

The Cupwith Hill site has recently experienced a number of wildfires, which may impact upon the ability for this site to be used for brash supply. If this is the case then other sites will be identified and will need to be used and the materials transported to the relevant lift site.

# 5.2. Timber Supply

The contractor is required to supply enough timber to construct 66 timber dams for the whole of the Longwood Water Treatment Catchment. The exact amount per site is specified in table 1 above.

# 5.3. Stone and Coir Logs Supply

In total the contractor is required to supply 625 tonnes of stone for the whole of the Longwood Water Treatment catchment. The exact amount per site is specified in table 1 above.

In addition to this the contractor is required to supply 255 coir logs for the whole of the Longwood Water Treatment catchment. The exact amount per site is specified in table 1 above.

5.4. Supply of Sphagnum Moss plugs and Vascular Plug Plants Moors for the Future Partnership will order and supply 409,025 Sphagnum Moss plugs (327.22ha) and 22,825 vascular plug plants (9.13ha). The contractor should be prepared to take delivery of these items and ensure they are maintained until they are planted on site.

The exact number of Sphagnum plugs and vascular plug plants to be planted on each site is specified within table 1.

The planting of sphagnum moss will follow the standard specifications as outlined in the main Tender "MFF 133 2022-2025 Whole Site Works"

### 5.5. Supply of Lime, Seed and Fertiliser

Moors for the future Partnership will supply all the lime and fertiliser for both the initial treatments and maintenance treatments at the Longwood Water Treatment Catchment.

The contractor will be responsible for receiving delivery, transporting to lift site.

# 5.6. Supply of Seed

Moors for the future Partnership will enough seed for the spreading of seed into bare peat and swards. The contractor will be responsible for receiving delivery, transporting to the lift site where applicable.



### 5.7. Construction of bunds

The areas of bunds identified in table one represent the total area where bunding will be constructed, not the footprint of the bunds. When constructing the bunding we would expect approximately 44 scallop bunds per ha, depending upon topography. Table 5 below identifies the number of bunds per site.

Table 5: Number of individual bunds per site

Site	Approximate number of individual bunds
Deanhead	1,188
Close Moss	3,202
Cupwith Hill	727
Pule and Bobus	2,389
Butterly	1,892
Wessenden	207

### 6. Additional Information

### 6.1. Livestock:

Sheep grazing takes place on Deanhead, with the potential for sheep grazing to occur on Butterly, but currently this right is not exercised by the agricultural tenant but maybe taken up in future. No sheep grazing currently takes place on any other site. Where sheep grazing does occur, the contractor must ensure their works do not allow sheep to escape.

### 6.2. Hazards associated with the Works Site:

Section C Item 11 in the main body of the tender "MFF 133 2022-2025 Whole Site Works", focuses on the conditions associated with utilities. The contractor must adhere to these conditions during the delivery of the works.

A summary of the main known hazards are identified to the Contractor in this section. Upon award of the Works Package further information will be provided to the Contractor in the MFFP CDM2015 Pre-Construction Information

The Works Site is on open moorland at high altitude and include waterlogged areas, deep peat, gullies, stream channels, steep slopes and unstable ground. Previous gully/grip blocking works have created pools in gullies and grips on all areas of the site.

UXO hazard is considered to be LOW (from Zetica Bomb Risk Mapping).

No known belowground services/utilities at the site.

No known aboveground/overhead services at the site

### 6.3. SSSI

The site is located within the South Pennines SSSI. SSSI Consent/Assent will be arranged by MFFP in co-ordination with Yorkshire Water. No works shall commence prior to confirmation from MFFP that SSSI consent/assent has been granted. All regulations relating to the use of SSSI must be adhered to by the contractor for using vehicles on site, working on site and accessing the site by foot.



6.4. Scheduled Ancient Monuments and other Archaeology Section B item 9 in the main body of the tender focuses on the conditions related to the scheduled ancient monuments and archaeology.

Based on previous engagement with the PDNPA cultural heritage team and the West Yorkshire archaeology service, a number of features of archaeological/historical interest are considered to be present at the site.

There is also archaeological interest in the basal peat deposits based on the presence of previous Mesolithic age flint finds in proximity to the sites, which are interpreted to represent the potential for a flint production site or temporary settlement. These may require amendment to standard methodologies for machine excavation works

### 6.5. Exclusion Zones

Moors for the Future Partnership have undertaken a number of scientific trials on the following sites:

- Buckstones Moss
- Close Moss
- Cupwith Hill

These exclusion zones are identified as a red and white stripped area on the maps below. The contractor must avoid tracking through and must avoid any work occurring in these areas to avoid damaging the trials.

GIS locations of these exclusion zones will be provided to the contractor upon award of the contract.

# 7. Maps

Map 1: All cutting work on Deanhead, with potential access points

Map 2: All proposed diversification work on Deanhead including access points

Map 3: All proposed excavator work on Deanhead including access points

Map 4: All proposed flying work on Deanhead including access points

Map 5: All potential lift sites for Close Moss, Cupwith Hill, Deanhead

Map 6: All proposed cutting work on Cupwith Hill including access points

Map 7: All proposed diversification work on Cupwith Hill including access points

Map 8: All excavator work on Cupwith Hill, with proposed access points

Map 9: All proposed cutting work on Close Moss including access points

Map 10: All proposed diversification work on Close Moss including access points

Map 11: All excavator work on Close Moss, with proposed access points

Map 12: All proposed flying work on Close Moss, including access points

Map 13: All proposed cutting work on Butterly, Pule and Bobus and access points including the tracking on required to access Wessenden

Map 14: All excavator work on Pule and Bobus and Butterly, with proposed access points, including the tracking on required to access Wessenden

Map 15: All proposed flying work on Pule and Bobus and Butterly

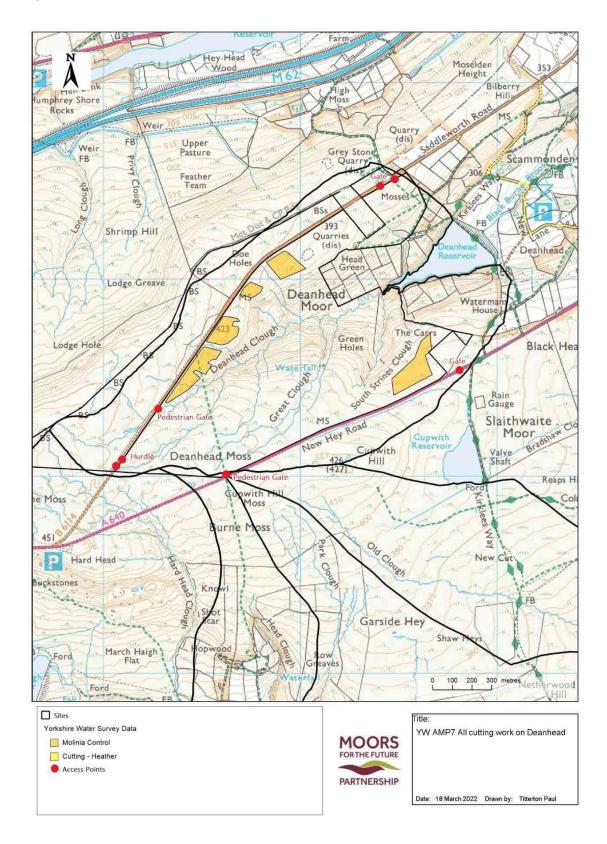
Map 16: All proposed lift sites for flying work on Butterly, Pule and Bobus and Wessenden

Map 17: All proposed diversification works on Wessenden and access points

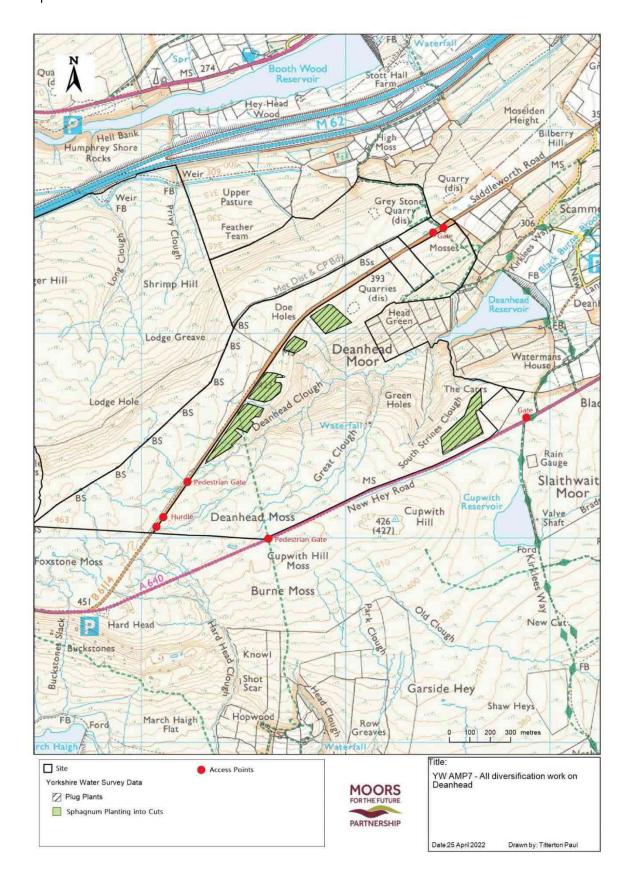


Map 18: All excavator work on Wessenden, including proposed access point Map 19: All flying work on Wessenden including proposed access points

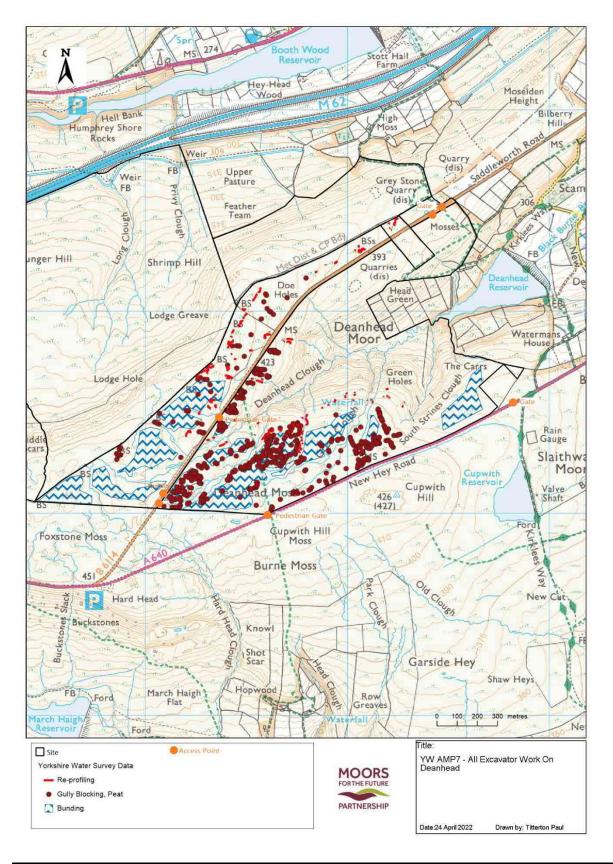




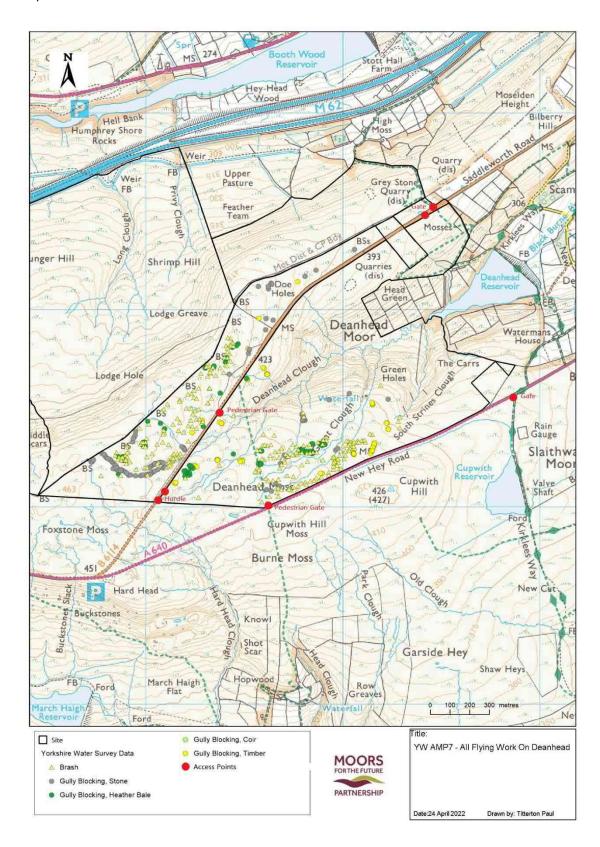




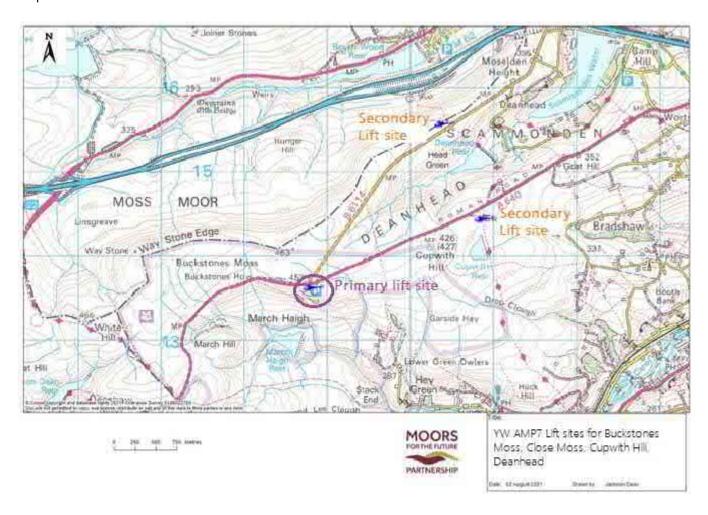




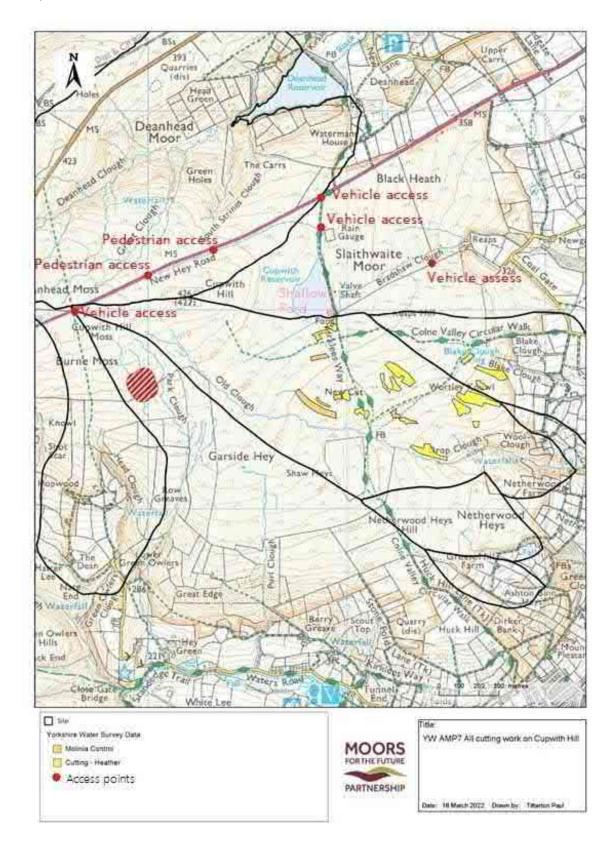




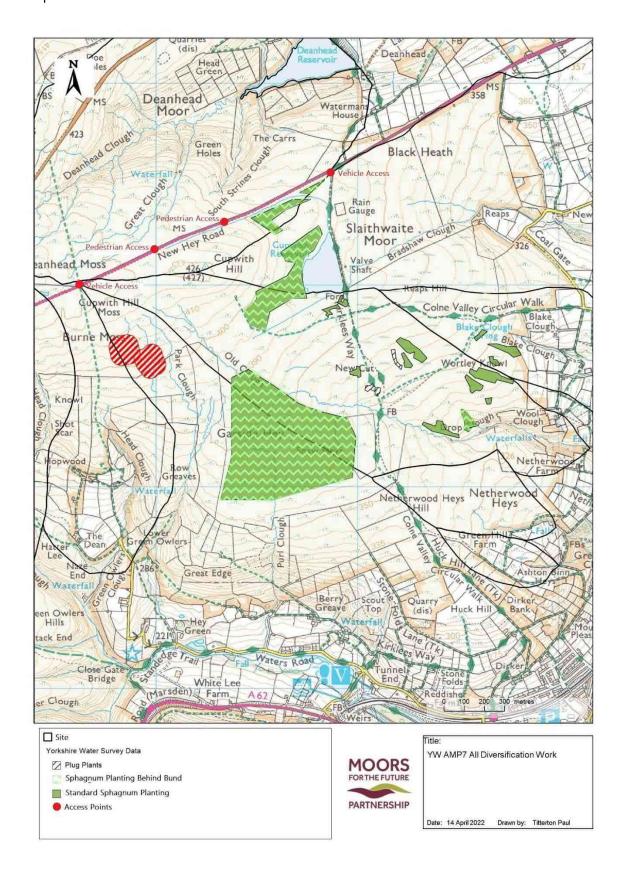




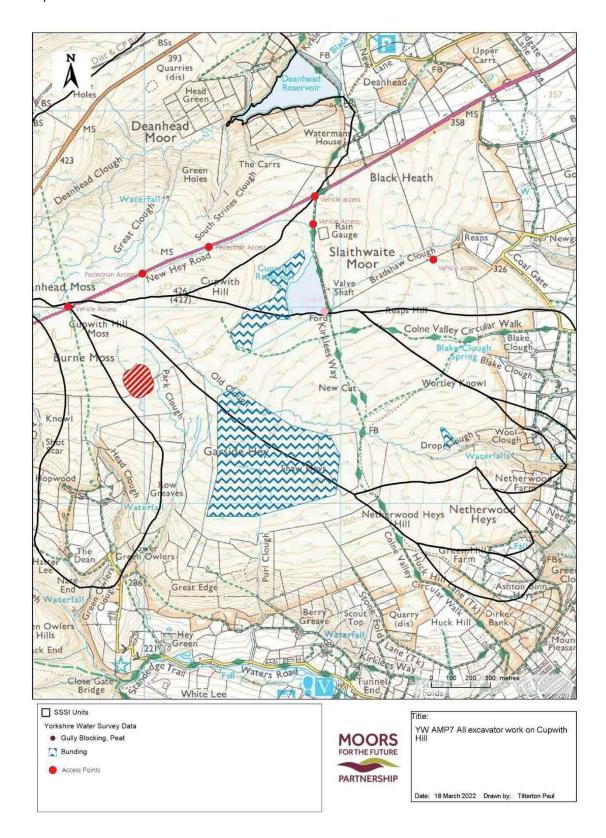




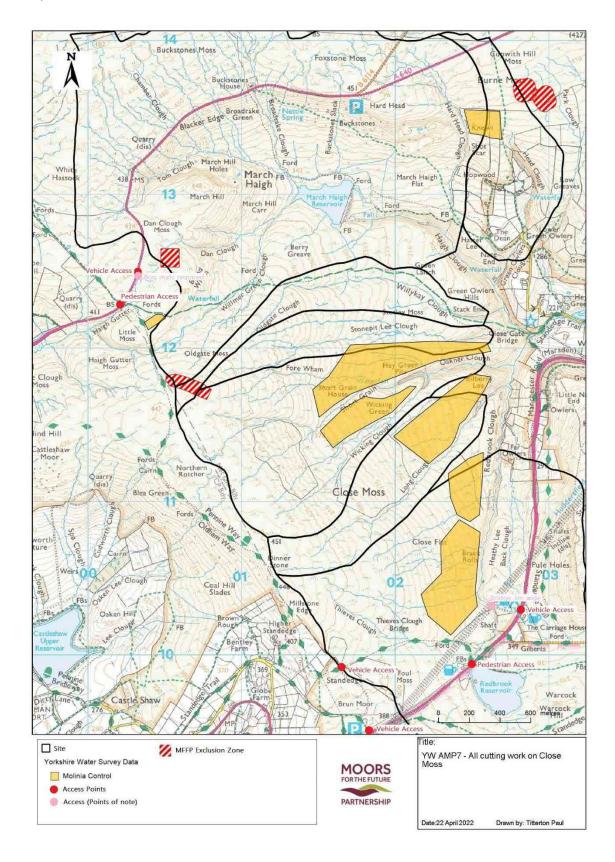




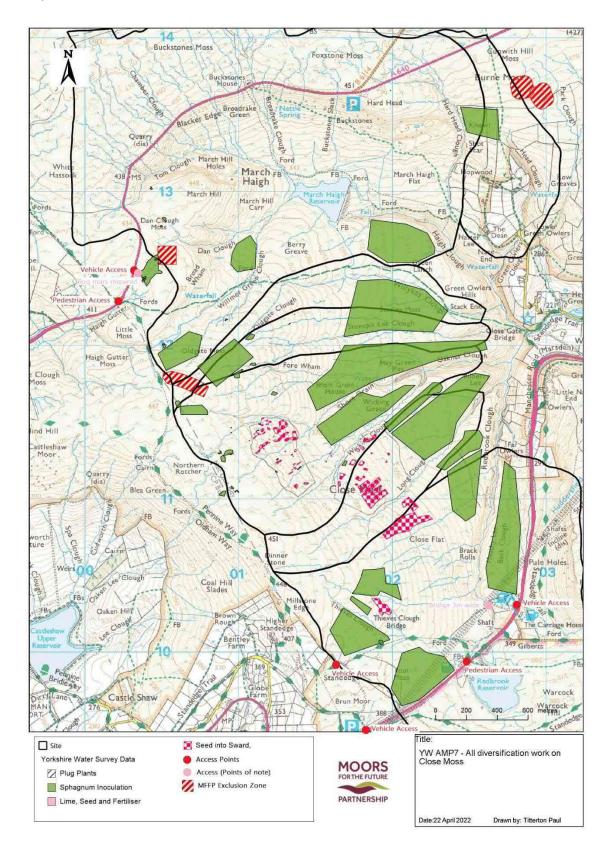




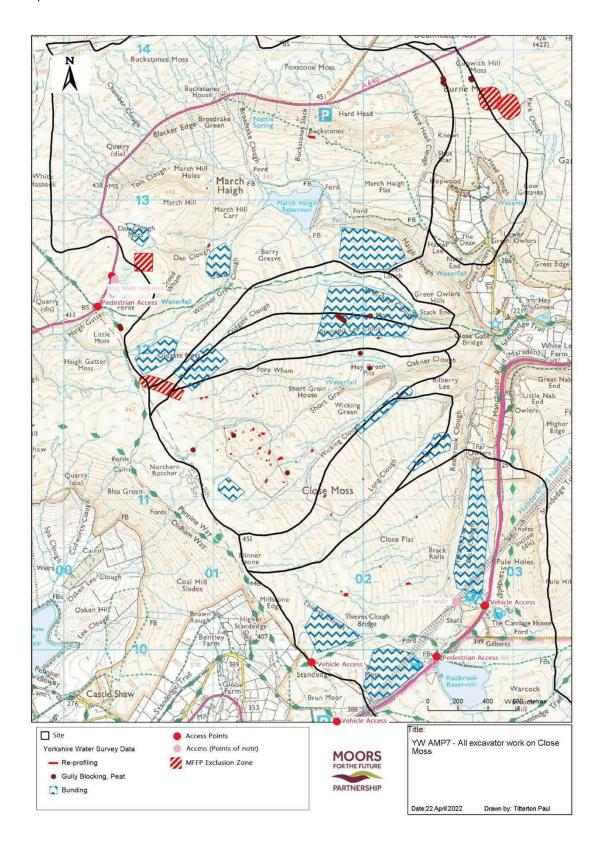




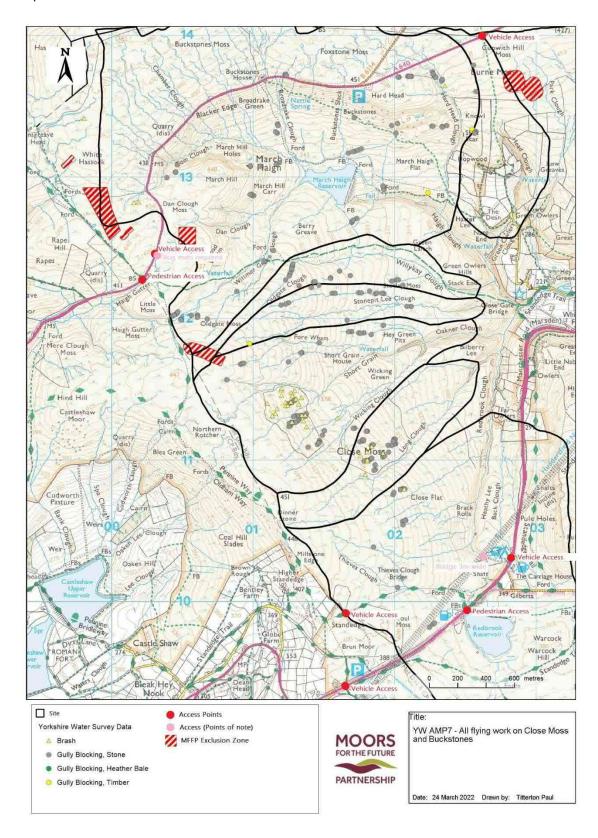




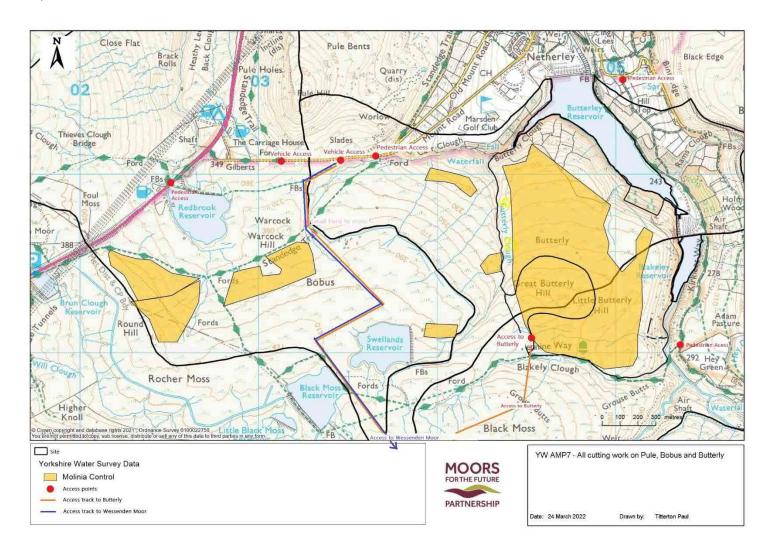




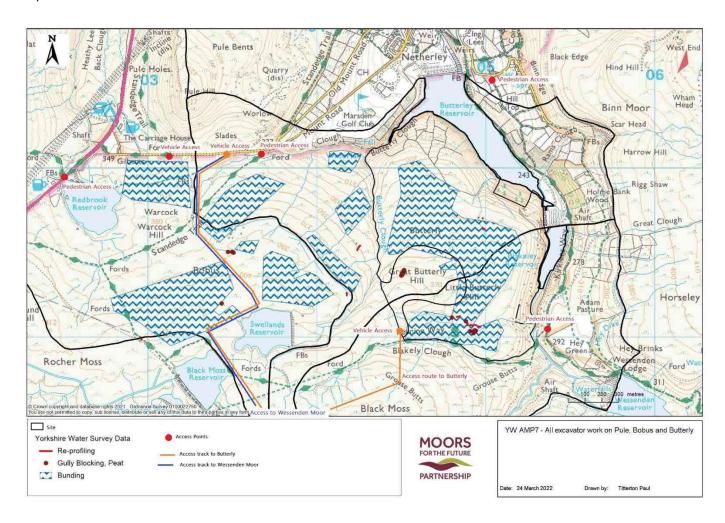




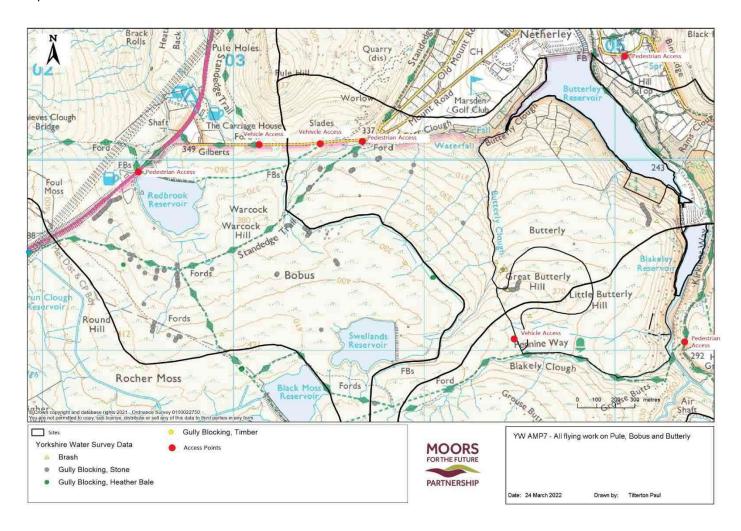














Map 16

