



Bamford Works – Packages 2a & 2b

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1. WORKS QUANTITIES

The works on the Bamford site have been split into 2 packages (2a & 2b). Tenderers may tender for any number of packages, but each package should be costed separately. Table 1 below identifies the quantity of work to be delivered for each package. Detailed requirements of each works package can be found in sections 3 and 4. Works site and lift site information can be found in sections 5 and 6. Works maps can be found in section 7.

Table 1 Table of Quantities

Treatment & Unit	Delivery Year	Package 2.a	Package 2.b
Gully Blocking: Stone (Dam)	2023-24	1022 dams (1109 loads)	-
Heather Brash (Bags) Phase 1	2023-24	700	-
Re-profiling (m) Phase 1	2023-24	1000	-
Brash onto reprofiled slopes Phase 1	2023-24	120	-
Year 1 Lime, Seed & Fertiliser (1 unit per bag of brash) Phase 1	2023-24	820	-
Year 2 Lime & Fertiliser (1 unit per bag of brash) Phase 1	2024-25	820	-
Heather Brash (Bags) Phase 2	2024-25	426	-
Re-profiling (m) Phase 2	2024-25	6851	-
Brash onto reprofiled slopes Phase 2	2024-25	823	-
Year 1 Lime, Seed and Fertiliser (1 unit per bag of brash) Phase 2	2024-25	1249	-
Gully Blocking: Heather Bale (Bale)	2024-25	217 (87 dams)	-
Gully Blocking: Peat (Dam)	2024-25	121	-
Gully Blocking: Timber (Dam)	2024-25	373	-
Area 6 Sphagnum planting (@1250 plugs per ha) (plugs)	2023-24		93,750
Area 1-4 Sphagnum planting (@2500 plugs per ha) (plugs)	2024-25		272,500
Area 5 Sphagnum planting (@1250 plugs per ha) (plugs)	2024-25		96,250

2. WORKS DATES & PROGRAMME

2.1. Start Date:

Pending award of Nature for Climate Peatland Grant Scheme funding, expected to be September 2023.

2.2. End Date

31st March 2025

2.3. Restricted Dates

No ground works to be completed between 1st April and 11th August each year.

The lift site can only be used for the airlifting of materials between 15th August and 31st March (inclusive).

There may be restricted access between 12th August and 4th December each year for sporting activities.

2.4. Works Phasing

Table 2 below provides suggested outline phasing/timing of the different works elements (across works packages 2a and 2b). 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.

Note that the phasing of the works must ensure that stone dams or baffles are installed before reprofiling, where applicable, followed by brash and LSF

Table 2 Outline Works Phasing

Year	Period	Works element
2023-2024	August 2023 to March 2024	Stone Gully Blocking
		Reprofiling
		Brash for reprofiled slopes
		Brash
		Sphagnum planting (standard)
	February 2024 to March 2024	Initial LSF
2024-2025	August 2024 to March 2025	Reprofiling
		Brash for reprofiled slopes
		Gully blocking (heather bales)
		Gully blocking (timber)
		Gully blocking (peat)
		Brash
		Sphagnum planting (standard)
		Sphagnum planting (dense)
		Initial LSF
	February 2025 to March 2025	Follow up Lime and Fertiliser

3. WORKS REQUIREMENTS – PACKAGE 2.a

Information on the works required to be delivered by the Contractor is provided below. Standard works specifications can be found in Appendix 8. Any site specific or works package specific requirements are stated below.

3.1. Materials Supply - Heather Brash

The supply of the heather brash will be tendered separately. (See works package 7). The Authority will supply lime, seed and fertilizer.

3.2. Materials supply – Gully Blocking

The Contractor will be required to supply a total of 832 tonnes of gully blocking stone for 1109 stone dam units, and timber for 373 dams, including 33 that are wider than 2m, and 340 that are 2m or less. The access track to the lift site is not suitable for repeated

movements of HGV's. Deliveries of stone should be delivered to the layby on the A628 and forwarded to the lift site by a small vehicle such as tractor and trailer / dumper.
The supply of heather bales will be tendered separately. (See works package 7).

3.3. Preparation of materials for aerial load lifting

The Contractor is required to sort the Materials into loads for transportation to the Works Sites by aerial load lift. 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. The Contractor is responsible for supplying all Equipment (except airlifting strops) and Machinery required for preparing the loads for transport.

Materials that will require airlifting are as follows;

- Brash
- Heather bales (for gully blocking)
- Timber (for gully blocking)
- Stone (for gully blocking)

Materials that will require terrestrial transportation:

- Sphagnum
- Lime, Seed and Fertiliser

3.4. Marshalling of Aerial Load Lifting & material deliveries

The Contractor will be responsible for all marshalling of Aerial Load Lifting and material deliveries at the lift sites and works sites. Please refer to the main Tender "MFF 142 2023-2025" for detailed information on marshalling requirements.

The lift site is adjacent to the Trans Pennine Trail and therefore marshalling must include safely managing the public while vehicles and helicopters are in use. There are no PROWs on the works site, but the site is open access land with some desire lines so the Contractor must ensure this is taken into account.

3.5. Spreading of heather brash, installation of stone, timber and heather bale dams

The Contractor will be required to spread 2069 bags of heather brash at the works sites. The Contractor will be required to install & construct 1022 stone dams (1109 loads), 373 timber dams and 217 heather bales at the works sites.

Notes on quantities and timings:

In total 2069 bags of brash will need to be spread.

1126 bags are for bare peat, 943 are for reprofiled slopes.

Heather brash will be sourced from a separate donor site and its supply will be tendered separately (Package 7).

Stone dams must be in place before reprofiling takes place. Brash for reprofiled slopes must be spread after reprofiling, and followed up with LSF. Where reprofiling, brash and LSF take place in Year 1, follow up Lime and Fertiliser will be applied in Year 2. Where reprofiling, brash and LSF take place in Year 2, follow up treatment will not be required within this tender.

3.6. Reprofilling of gully systems and peat dams

The Contractor will be required to re-profile 7851 metres of gully sides, of which 6661m will be between 0 and 2m high, and 1190m will be between 2m and 3m high.

The Contractor will be required to construct 121 peat dams, the average size of the gullies is 1.5m and 1m deep.

3.7. Application of lime, seed & fertiliser

The Contractor will be required to take delivery of initial and maintenance lime, seed and fertiliser for the works. The Contractor will be required to transport the lime, seed and fertiliser on to the works site and apply the materials by hand to the bare peat areas that have been treated with Brash. LSF will be delivered in bags of around 25kg and should be transported to site terrestrially. Spreading of LSF must occur during March only.

In total, 2069 units of LSF (one unit for each bag of brash) will be applied across the two seasons. Additionally, in the second season, 820 units of follow-up lime and fertiliser will be applied in the second year. This must be phased with reprofilling where needed, and brash spreading. The rest of the LSF will be applied in March 2026 and IS NOT INCLUDED in this tender.

3.8. Temporary Trackway

The Contractor will be required to supply & install a temporary trackway at the Lift Site, prior to the delivery of materials. The Contractor must remove the temporary trackway promptly as soon as airlifting work has been completed. The Trackway should provide an area that is large enough to allow access and egress to forwarding vehicles without them driving on any vegetation, and to allow storage of any Materials delivered to the Lift Site without affecting the surrounding vegetation. The Authority estimates the size of the trackway surface required to be approximately 20 metre x 20 metre (400m² total area). The Authority is requesting weekly rates from the Contractor for the supply & installation of temporary trackway in the itemised costs.

The trackway should be installed no more than a week before the commencement of the works, and should be removed within one week of the last materials being removed from site. It is anticipated that the trackway will be required for 9 weeks per year.

3.9. Traffic management

A banksman will be required to ensure safe movement of stone from the A628 to the lift site.

4. WORKS REQUIREMENTS - PACKAGE 2.b

Information on the works required to be delivered by the Contractor is provided below. Standard works specifications can be found in Appendix 8. Any site specific or works package specific requirements are stated below.

4.1. Planting of Sphagnum Moss Plug Plants

The Contractor will be required to take delivery of, appropriately store and plant 462,500 Sphagnum moss plugs. The Contractor will be required to transport the Sphagnum Moss Plugs on to the works site. (The supply of sphagnum will be provided by the Authority) Areas within the Bamford Catchment that are cotton grass dominated and that have not previously had any sphagnum planting will be planted at a density of 2500 plugs per hectare.

Areas within the Bamford Catchment that are more heather dominant and on steeper slopes will be planted at an average density of 1250 plugs per hectare, following to standard MFFP planting specification. Table 3 below shows the phasing and quantities of sphagnum planting.

Table 3 Sphagnum Planting Phasing

Activity	Activity Type	Ha	Density plugs per ha	Total no. plugs	No. plugs in year 23/24	No. plugs in year 24/25
Sphagnum Areas 1-3	Sphagnum dense	89ha	2500	222500	0	222500
Sphagnum Area 4	Sphagnum dense	20ha	2500	50,000	0	50000
Sphagnum Areas 5,6	Sphagnum standard	152ha	1250	190,000	93750	96250
Grand Total		261		462,500	93750	368,750

5. WORKS SITE DETAILS

5.1. Work Site Name: Bamford Catchment – Ronksley Swains Greave and Birchinlee Westend Head

5.2. Description of Works Site location:

The site identified for restoration is blanket bog and located on and around the catchment watershed on Bleaklow. Figure 1 below shows the site. This is made up of two areas, Ronksley Swains Greave and Birchinlee West End Head and are entirely owned by the National Trust. The site lies within the South Pennine Moors 'Special Area of Conservation' (SAC) and the Peak District Moors 'Special Protection Area' (SPA). The site lies within the Dark Peak Site of Special Scientific Interest (SSSI) and the Peak District National Park (PDNPA).

5.3. Specified Access Points/Routes:

The access routes require access through locked gates. Keys will be provided to the Contractor, and the gates should be kept locked at all times.

Table 4 below shows the available access for each site, along with suitable lift sites. Details of each route can be found in table 4, and on the map in section 7.

Table 4 Access Points and Routes

Ronksley Swains Greave				
Object ID	Access route	Description	Vehicle Type	Grid Ref of start point
109	From A628	Pedestrian access only	Pedestrian	413939 400006
108	Far Black Clough	Machine access from A628	Excavator, 4x4, pedestrian	411169 399852

1695	From Far Black Clough	Machine Access (from A628 side)	Excavator, pedestrian	412172 398653
2097	From Far Black Clough	Possible machine access (walked by MFFP staff April '23)	Excavator, pedestrian	412286 398000
2098	From Far Black Clough	Possible machine access (walked by MFFP staff April '23)	Excavator, pedestrian	412318 397885
2099	From Far Black Clough	Possible machine access (walked by MFFP staff April '23)	Excavator, pedestrian	412269 397976
7	Salters Brook lift site	Lift Site and bridleway access from A628	Helicopter, bridleway track 4x4, tractor, small wagon.	414064 400178
Birchinlee Westend Head				
106	From Westend	Machine and 4x4 access from Westend	Excavator, 4x4, pedestrian	415492 392751
496	From Ronksley Moor	Machine access (from Westend side)	Excavator, pedestrian	413995 395453
497	From Ronksley Moor	Machine access (from Westend side)	Excavator, pedestrian	413862 395756
498	From Ronksley Moor	Machine access (from Westend side)	Excavator, pedestrian	413029 395898
N/A	Walk in from Snake Summit	Walk in from Snake Summit along Pennine Way	Pedestrian	408799 392918
7	Salters Brook lift site	Lift Site and bridleway access from A628	Helicopter, bridleway track 4x4, tractor, small wagon.	414064 400178

Contractor to provide works notice & helicopter warning signs on the Trans Pennine Trial at the point where the helicopter overflies the footpath. (approx. 100metres apart either side of the lift site).

Works notice & helicopter warning signs on the entrance and exit points of the footpaths crossing the Work Site are also required.

5.4. Access Restrictions:

Access is restricted in Bird Breeding Season from 1 April to 11 August Inclusive.

Airlifting is restricted in Bird Breeding Season from 1 April to 15th August Inclusive.

There may be restricted access between 12th August and 4th December each year for sporting activities.

5.5. Public Rights of Way / Footpaths:

The delivery & Lift Site is to the West of the Trans Pennine Trail bridleway. The Contractor will need to marshal this while delivery and airlifting is taking place. There are no PROWs on the site, but the site is on open access land under the CROW Act, so the Contractor is expected to take this into account.

5.6. Vehicles allowed on Works Site:

Only suitably low-ground-pressure vehicles (<3psi) may be taken onto the works site for machine works, cutting, refuelling or transport of required materials associated with the works. Vehicles shall not be used for the sole purpose of personnel transport. The mitigations outlined here and in Appendix 1 are considered sufficient and appropriate for preventing damage to blanket bog or localised dry heath habitats routes may cross.

Access for excavators and other low-ground-pressure vehicles can be made at the access points and outline routes as per Figure 4 and Table 4.

Existing established (aggregate and/or tarmacadam) tracks may be used for normal road vehicle / 4x4 access onto site.

5.7. Livestock:

Sheep graze parts of the Work Site seasonally. The Contractor must ensure their works do not allow sheep to escape.

5.8. Hazards associated with the Works Site:

Grouse shooting takes place on the Woodhead Estate to the north of the work site.

5.9. SSSI

The site is located within the Dark Peak SSSI. SSSI Consent/Assent will be arranged by MFFP in co-ordination with the National Trust (and United Utilities for the lift site). No works shall commence prior to confirmation from MFFP that SSSI consent/assent has been granted.

5.10. Scheduled Ancient Monuments and other Archaeology

There are no identified Scheduled Monuments or Listed Buildings on the sites, however there are 17 cultural heritage assets or findspots, 13 on Birchenlee Westend Head and 4 on Ronksley Swains Greave.

An archaeological survey is pending. Results of the survey will be shared with the Contractor. Any planned changes are not expected to alter the scope of the works, but exact locations may change.

6. LIFT SITE DETAILS

6.1. Description of Lift Site location:

The delivery & Lift Site is to the West of the Trans Pennine Trail bridleway, south of the A628 at Salter's Brook (SE 14049 00131). The lift site location is shown in figures 1,2 and 3.

6.2. Specified Access points/routes:

A key is required for the gate at the top of the access track for the lift site.

Access Track / Road Surface: Aggregate surface.

The width of the gates is estimated to be 10' and has been used for deliveries by tractor and trailer previously.

6.3. Access Restrictions:

The lift site will be used for delivery and storage of materials between 12th August and 31st March (inclusive). The lift site will be used for the airlifting of materials between 15th August and 31st March (inclusive).

There may be restricted access between 12th August and 4th December each year for sporting activities.

6.4. Lift Site Surface/ Temporary Trackway Requirements:

A temporary trackway and operating area measuring approx. 20m x 20m will be located on the site of the old peat cutting, on the West side of the Trans Pennine Trail bridleway approximately 350m from the carriageway. This site is proposed for use for delivery and airlifting of brash, stone, timber, heather bales, lime, seed and fertiliser.

6.5. Public Rights of Way / Footpaths:

The delivery & Lift Site is to the West of the Trans Pennine Trail bridleway. The Contractor will need to marshal this while delivery and airlifting is taking place.

6.6. Vehicles allowed on Lift Sites:

Tractors, trailers and delivery of trackway can access lift site along the Trans Pennine Trail. Stone lorries will not be able to access the lift site. Stone should be delivered to the gateway/ layby off Woodhead, (A628) opposite the lift site, subject to agreement with the Authority. The Contractor is then responsible for transporting the stone to the lift site using a vehicle suitable for the track.

6.7. Hazards associated with the Works Sites:

This area is close to the A628 Woodhead pass and may suffer from theft and anti-social behaviour. Contractors should consider this when planning to leave materials or vehicles unattended. Grouse shooting takes place on the Woodhead Estate to the north of the work site.

6.8. SSSI:

Yes. SSSI consent pending.

6.9. Storage of Materials allowed at lift site:

Yes, only on hard standing or temporary track way.

6.10. Helicopter refuelling permitted:

Yes, only on hard standing or temporary track way.

6.11. Traffic management required:

No. It is expected that the Contractor will use a banksman. The Contractor should take extra care to avoid spilling rocks on the road when transporting them to the lift site.

7. WORKS MAPS

Maps 1-9 below show the locations of the works.

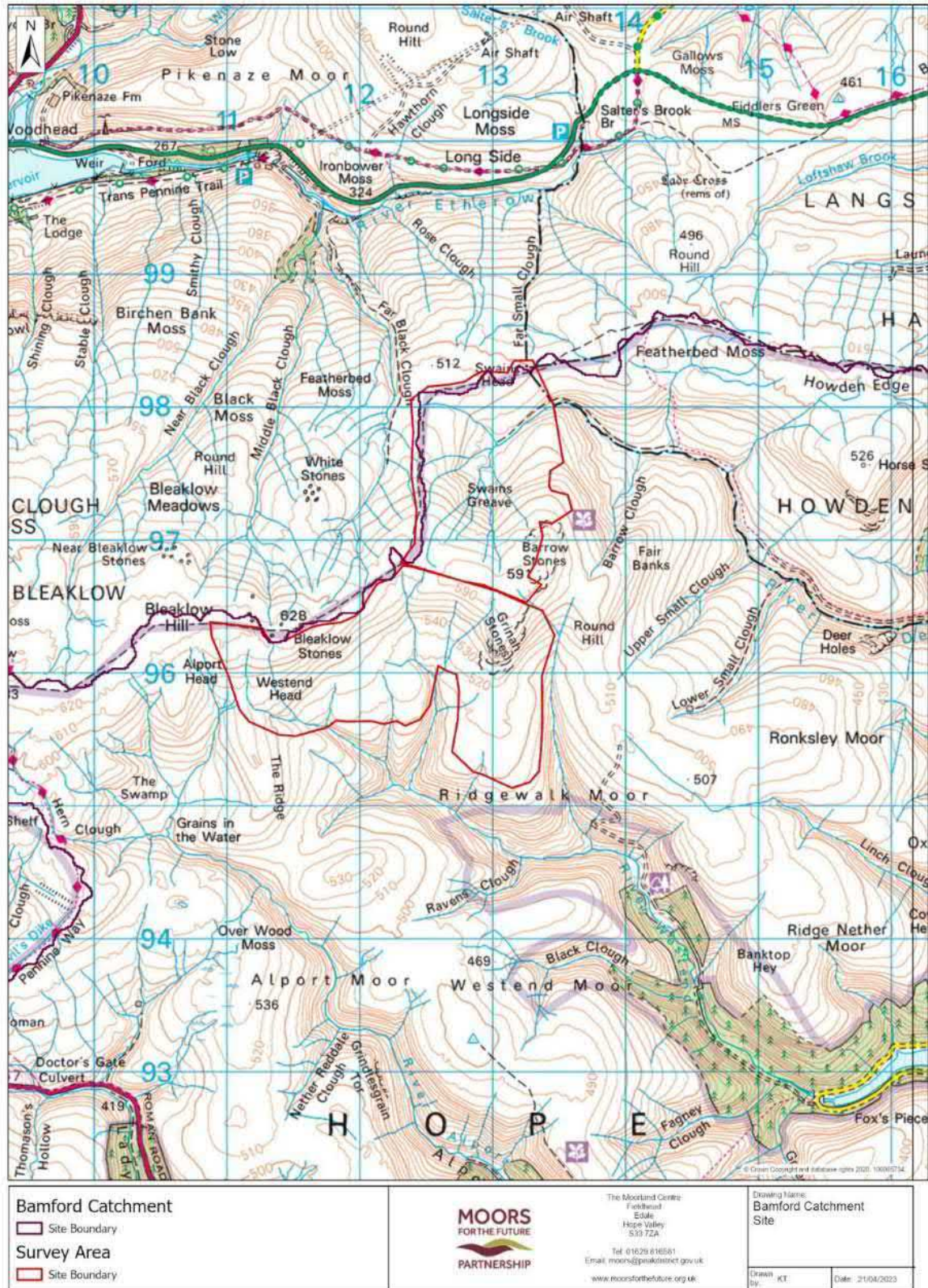
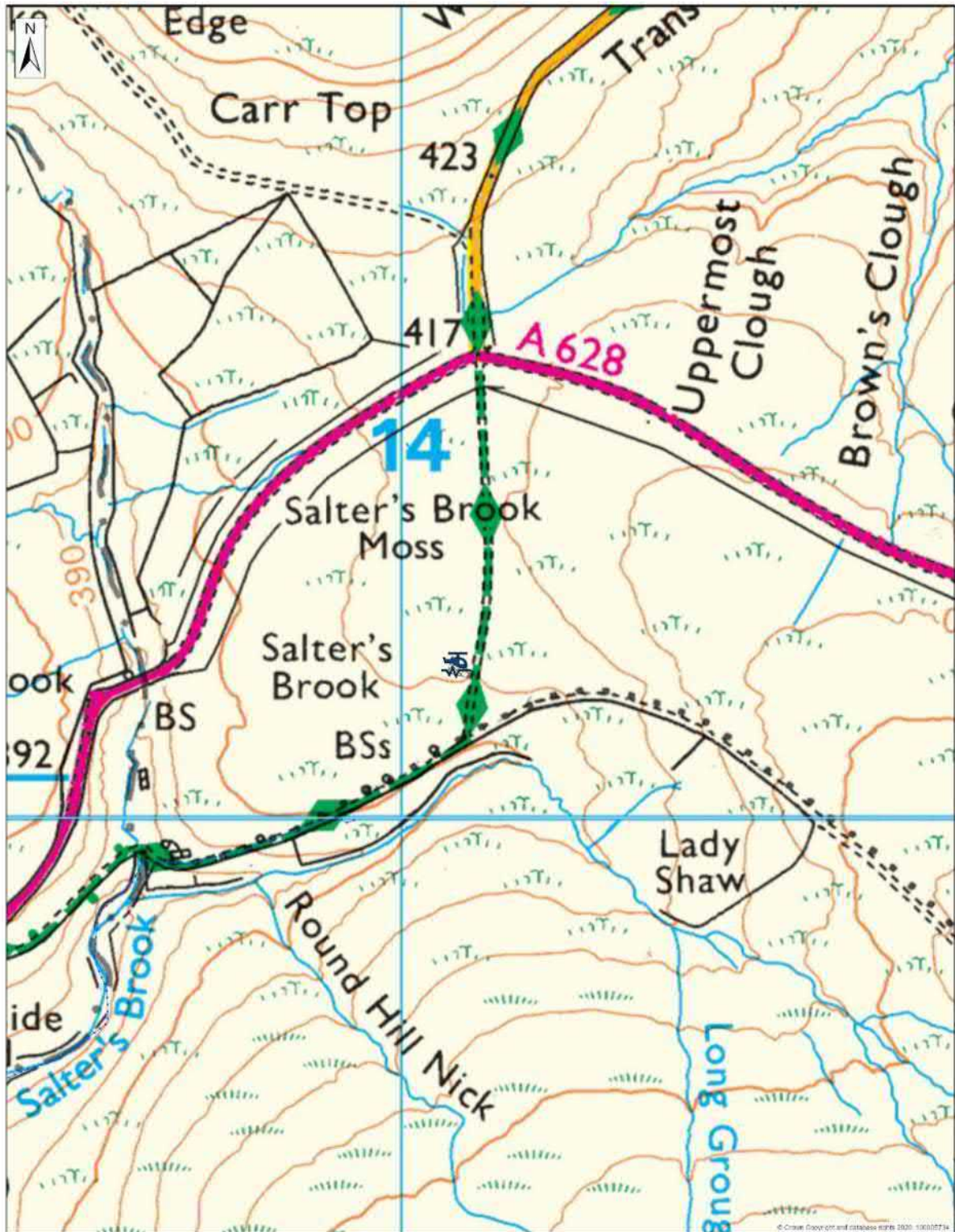


Figure 1 Works Site Location Map



 Lift Site  Temporary Trackway and Storage Area	 <p>The Moorland Centre Finlhead Edale Hope Valley S33 7ZA Tel: 01629 816511 Email: moors@peakdistrict.gov.uk www.moorsforthefuture.org.uk</p>	<p>Drawing Name: Bamford Catchment Salter's Brook Lift Site</p> <p>Drawn by: KT Date: 21/01/2023</p>
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Figure 2 Lift Site Location Map



Figure 3 Lift Site Aerial Photo

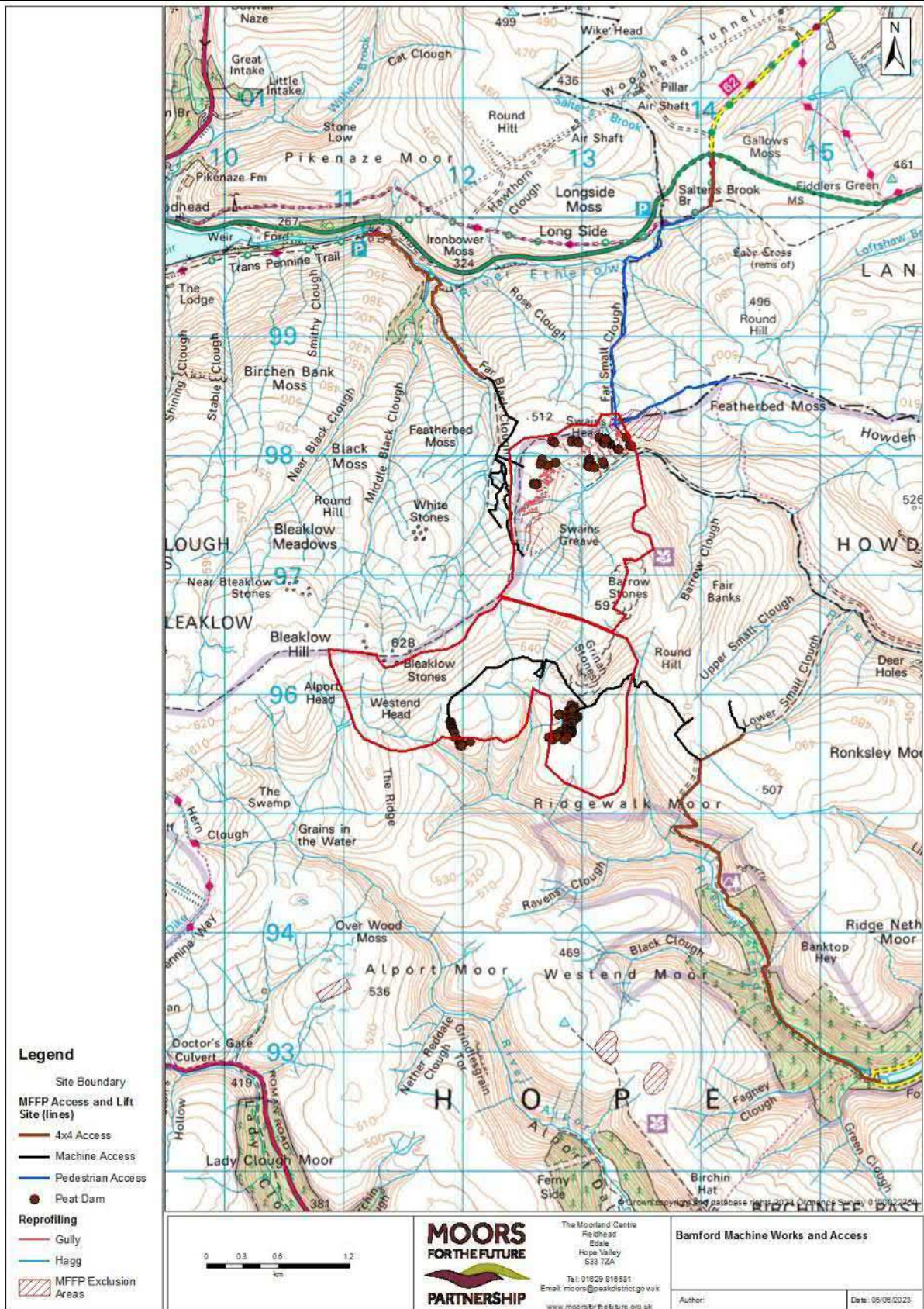


Figure 4 Machine Works and Access

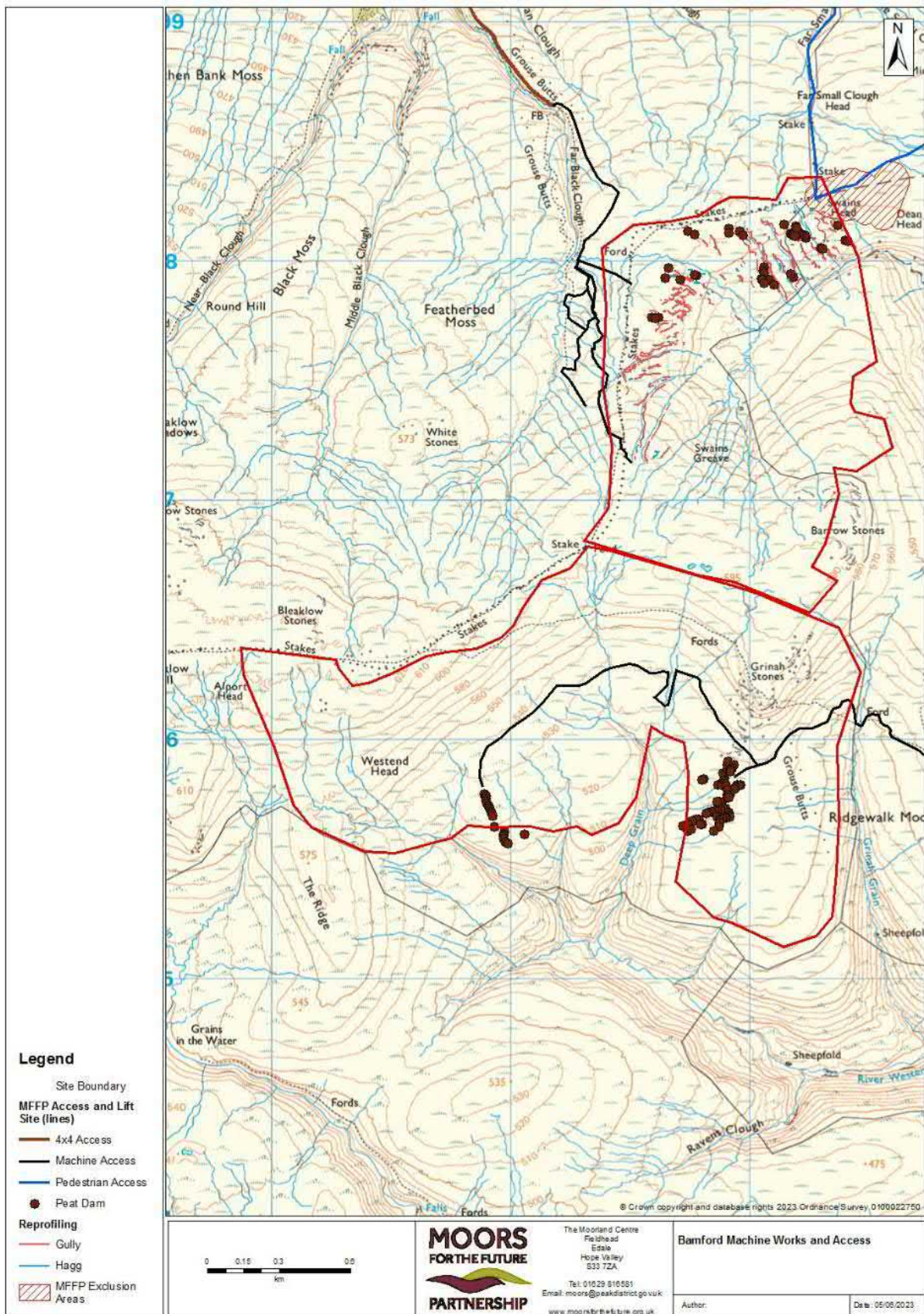


Figure 5 Machine Work - zoomed in

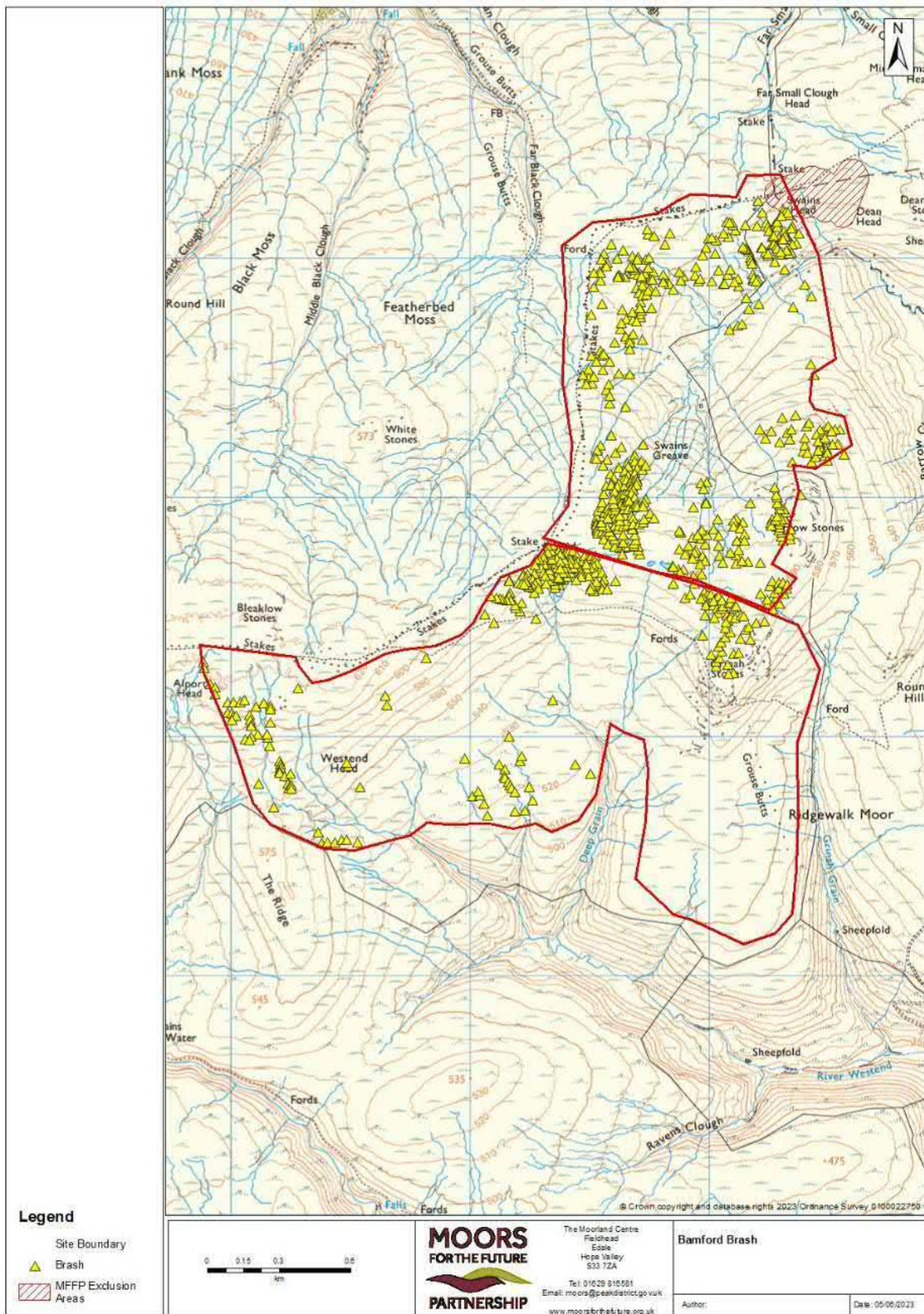


Figure 6 Heather Brash

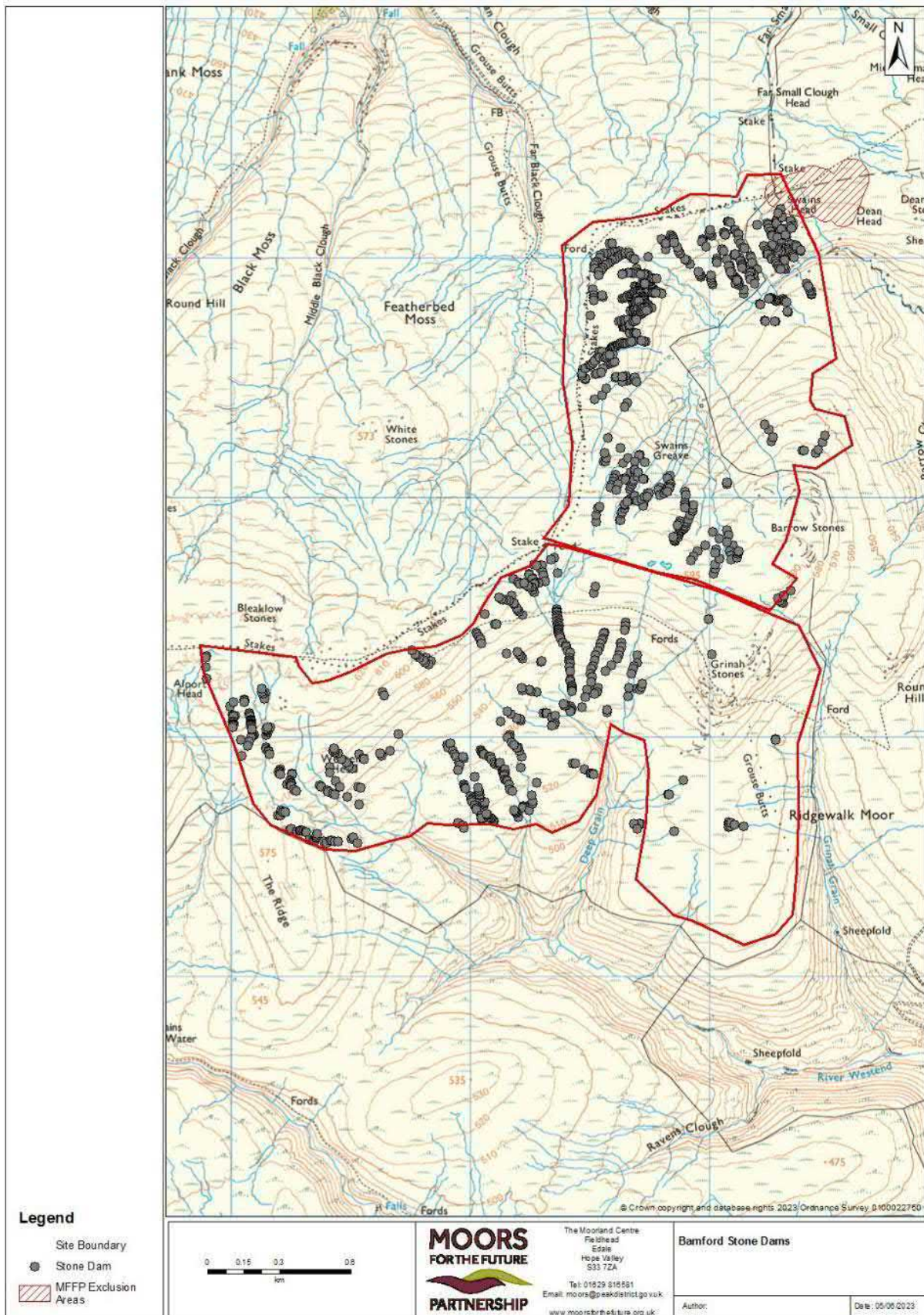


Figure 7 Stone Dams

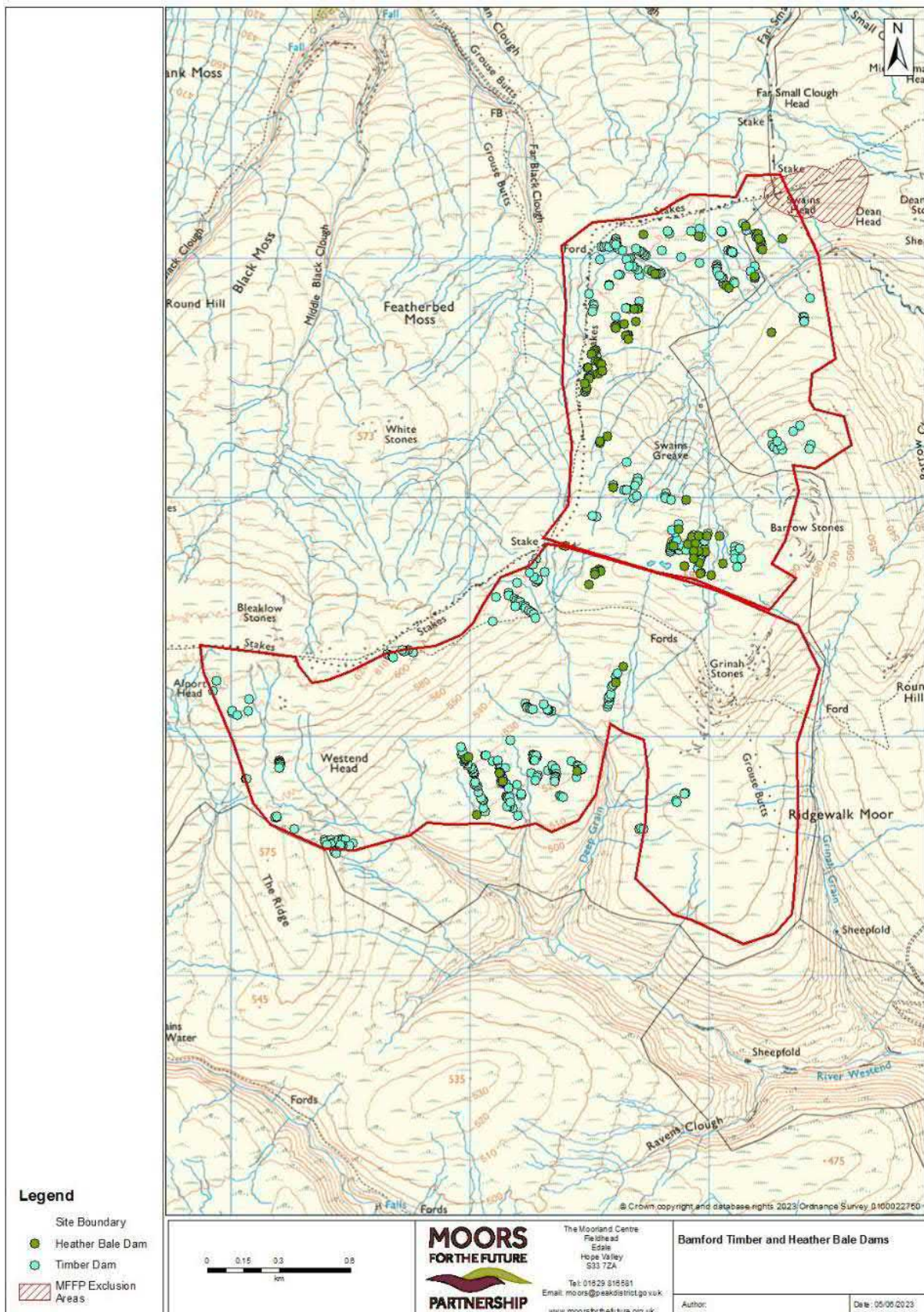


Figure 8 Heather Bale and Timber Dams

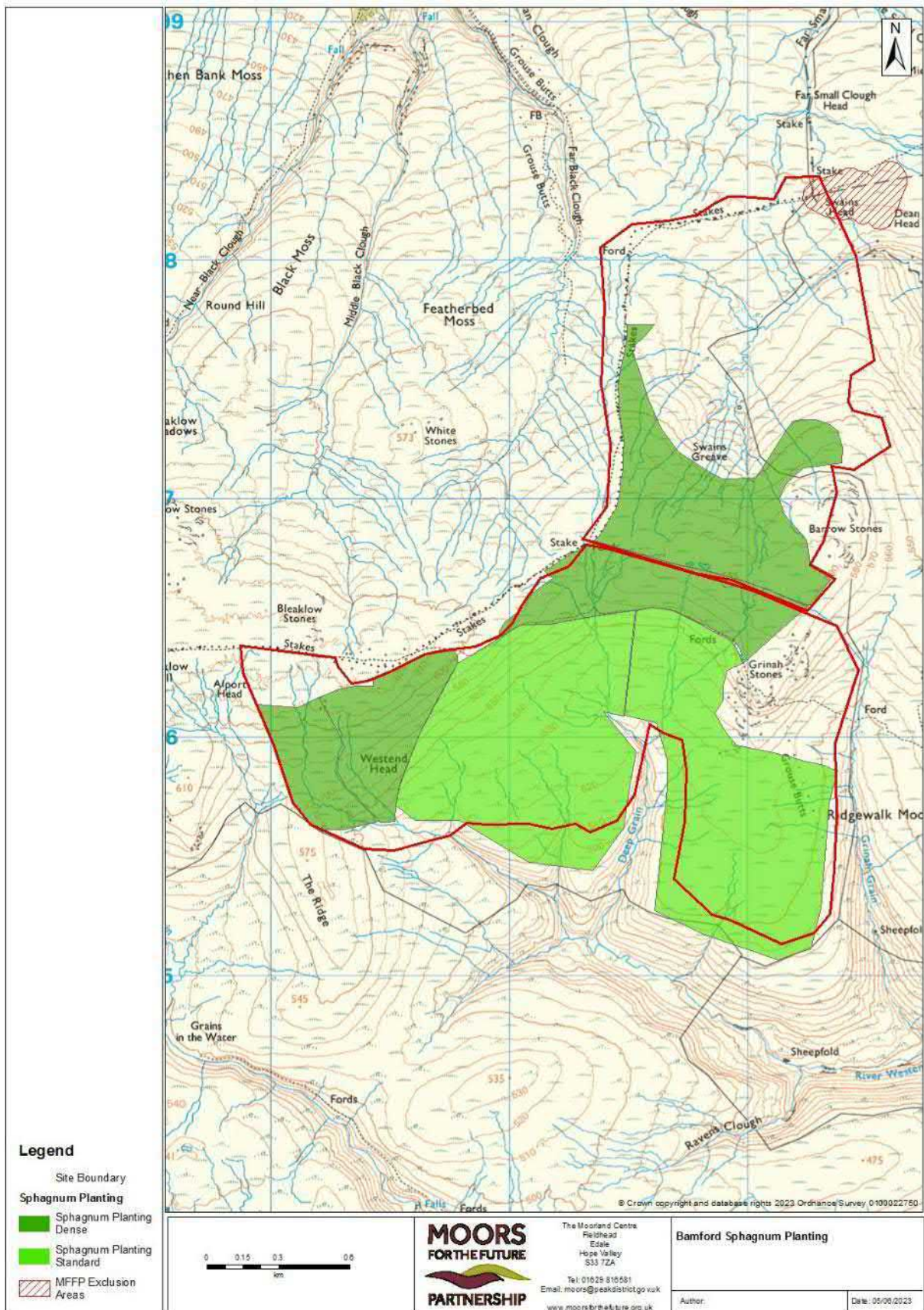


Figure 9 Sphagnum Planting

