Package 5 Rishworth

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1. Works quantities

Table 1 shows the proposed work quantities for the Rishworth site, Package 5.

Treatment	Grand Total
Grip/Gully Blocking - Stone (Dam unit)	32
Grip/Gully Blocking: Heather (Bale)	82
Grip/Gully Blocking: Peat Dam (units)	298
Molinia Cutting (ha)	16.5
Re-profiling (m)	84
Bunding (ha)	26.35
Heather brash (bags)	33
Initial lime, seed and fertiliser (ha)	0.23
Maintenance lime and fertiliser	0.16
Standard Sphagnum planting (@1250 per ha) (ha)	54
Sedge/dwarf shrub Plug plants (@2,500 per ha) (ha)	28

Table 1

Standard works specifications can be found in Appendix 9. Site specific works technique information is included in Section 4. Location Maps are provided in Section 5.

2. Works dates

2.1. Start date:

Monday 18 July* 2022

**Subject to confirmation of end date of 2022 bird nesting restriction which may be subject to delay if evidence of "late" bird nesting activity. Delays may extend to 15 August 2022.*

2.2. End date

1 March 2025

2.3. Restricted dates

Nesting bird season 2023: 1 April 2023 to 17 July 2023*
Nesting bird season 2023: 1 April 2024 to 22 July 2024*

**end date of bird nesting restriction subject to delay dependent on evidence of "late" bird nesting activity. Delays may extend to 15th August.*

2.4. Works Phasing

Table 2 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

Year	Period	Works element
2022-2023	May 2022 to July 2022	Contractor prepares/finalises HSSE & CDM documentation.
	July/August 2022 to March 2023	Molinia cutting
		Machine work: peat dams, peat bunding and re-profiling
		Supply, fly & install heather bale dams and stone dams

Year	Period	Works element
		Supply, fly and spread brash to reprofiled slopes and other bare peat
	March 2023	Apply initial lime, seed and fertiliser (hand)
2023-2024	April 2023– July 2023	Update/prepare/finalise HSSE & CDM documentation (as required)
	July/August 2023 to March 2024	*Contingency for completing machine work*
		Sphagnum plug planting
		Sedge/dwarf shrub plug planting
	February 2024 to March 2024	Apply maintenance lime and fertiliser (hand)

3. Works Site Details

3.1. Work Site Name:

Rishworth.

3.2. Work Site Grid Reference

Approximate site centre at OS GR SD9983116113

3.3. Description of location:

The Works Site is part of the Rishworth stakeholder area in the Metropolitan Borough of Calderdale, West Yorkshire approximately 4 km east of the town of Littleborough and north of Junction 22 of the M62 motorway. The site comprises open moorland/blanket bog areas of Rishworth Moor, draining to the east towards Yorkshire Water reservoirs and is owned by Yorkshire Water Services.

Rishworth Moor lies within the South Pennine Moors 'Special Area of Conservation' (SAC) and the South Pennine Moors 'Special Protection Area' (SPA). It is also within the South Pennine Moors SSSI, and the Works Site includes the SSSI units 110, 130 and 131. The SSSI units are indicated on Figure 1 (inset below).

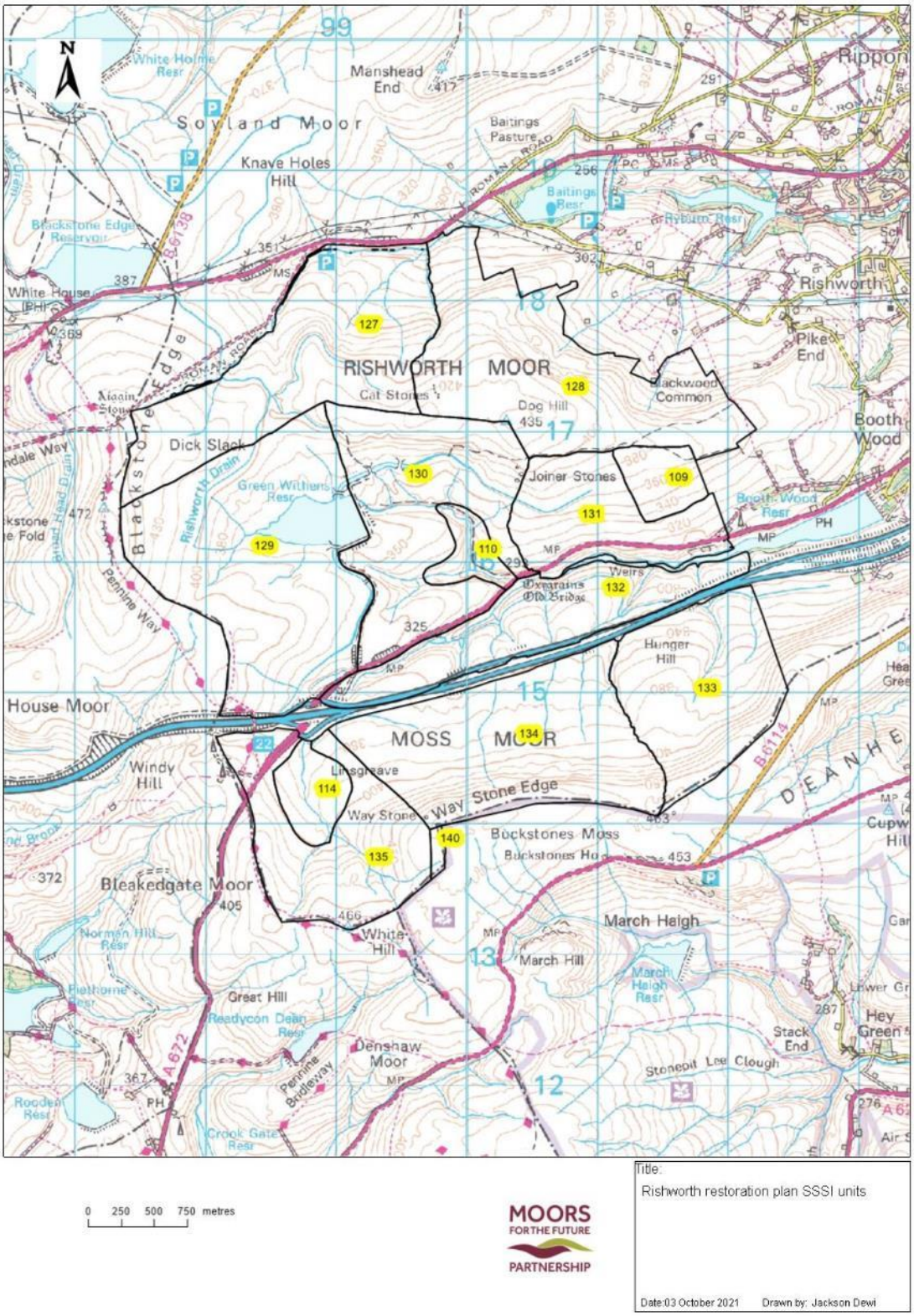


Figure 1 Inset map of SSSI units at the work site

3.4. Description of Site Areas

- Much of the Works Site including Great Wolden Edge and Little Wolden Edge) comprises deep peat draining into Green Withens Clough.
- In general, peat depth decreases to the north and east of Green Withens Clough but remains Molinia dominated.
- Where the site is gullied, the base of gullies tend to be vegetated but frequently with bare peat sides.

See Maps in Section 5.

3.5. Specified Access Points

The Works Site can be accessed

- from the A672 via the access road for Green Withens Reservoir

Machine Access

- Suggested access points for low ground pressure machinery are:
    - from SD9915515181 on the A672 north of Junction 22 of the M62 via the reservoir access road and a locked gate. As well as being used to access the reservoir infrastructure, this road is used by Green Withens Sailing Club and must remain passable at all times. The road can be used to reach Great Wolden Edge, Little Wolden Edge and Green Withens Moss.
    - The tenderer is advised to inspect the proposed machine access routes in advance of tendering to assess suitability and to determine the need for ground protection/support to allow access/prevent damage.
    - The tenderer may propose additional/alternative machine access routes with their submission; other potential machine access points include from SE0180116138 on the A672 north of Junction 22 of the M62 via an existing fence hurdle and track. however it is advised that the contractor inspect and satisfy themselves of the suitability of these or any alternative routes prior to tender.
    - See Maps 2 and 3.

Pedestrian access:

- As per machine access route, or
- From the A672 at SE0036315887 via footpath.
- The contractor may propose alternative pedestrian access routes.

3.6. Delivery and Lift Site details

The areas surrounding Rishworth are subject to high levels of anti-social behaviour, including vandalisms, theft and arson. It is not advised to store machinery or materials within sight of public roads and access tracks.

- The tenderer is advised to inspect their proposed delivery and lift sites in advance of tendering to assess suitability and to determine the need for traffic management, ground protection and security measures.
- The Contractor may wish to propose the use of different lift sites through the programme, if beneficial for execution of the works.
- The use of any such lift sites are subject to MFFP obtaining relevant stakeholder consents/permissions.

- The Contractor should liaise with the Nominated Officer at least 48hrs before requiring initial access to the Lift Site, in order that any Landowner and other stakeholders can be advised.

Suggested delivery and lift site locations are:

- From Green Withens access road at SD9915715364.
    - A road used to access Green Withens Reservoir and associated sailing club. Access must remain clear at all times. The track is also accessible on foot to members of the public.
    - There is a locked gate at the bottom of the access track. This gate must remain locked when the site is not in use. A code/key will be provided for this purpose. The Lift Site is in a small area of hard standing at the side of the track.
    - Storage is limited to the track side.
    - Trackway will be required for vehicle movement away from the track.
    - Banksmen and marshals will be required for deliveries and aerial load lifting. Traffic management will not be required.
- From Green Withens Reservoir at SD9908216539.
    - As above but with additional hard standing for materials.
- From Blackwood Farm off Long Causeway Road at SE0169717729.
    - A private farm with track and hard standing, suitable for most vehicles.
    - Storage is available.
    - Trackway is not required.
    - Traffic management is not required.
- These are indicated on Maps 2, 4 and 5.

3.7. Access Restrictions

Contractor access is to be restricted to daylight hours only during the Contract Period.

All tracks on to the moorland are secured by locked gates. Access will be arranged for the Contractor.

Previous works have been undertaken on the site, including construction of dams. 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. Maps indicating locations of such previous works are included as Map 7.

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.

3.8. Public Rights of Way / Footpaths

The site and access routes are located within Access Land pursuant to the CRoW Act and there are informal paths in vicinity of the access route and works site. Marshalls will be required to maintain safety.

3.9. Vehicles allowed on Works Site

Contractors may park vehicles at the car park at Windy Hill Transmitter or in laybys along the A58, A62 and B6114. Contractors should satisfy themselves as to the safety, suitability and rights to use such car parking and access routes.

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.

Access for excavators and other low ground pressure vehicles can be made at the access points and outline route as per section 3.5. Contractors should assess to their own satisfaction the exact route to be taken.

3.10. Livestock

Sheep and cattle graze the Work Site seasonally. The contractor must ensure their works do not allow stock to escape.

3.11. Hazards associated with the Works Site

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.

The Work Site is on Open Access land (pursuant to the CRoW Act) so the Contractor must be aware of and have due regard to members of the public, who may be present at the Site, and ensure appropriate mitigation measures are in place.

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

No known belowground services/utilities at the site. Contractors must work to the standards set out in HSG47 *Avoiding danger from underground services*.

No known aboveground/overhead services at the site.

3.12. SSSI

The site is located within the South Pennine Moors 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.

3.13. Scheduled Ancient Monuments and other archaeology

Based on previous engagement with the West Yorkshire Archaeological 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 site, 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 (i.e. as outlined in section Error! Reference source not found. for peat dams).

4. Work techniques: site specific details

Site specific details pertaining to the proposed works are outlined in following sections, to be read in conjunction with MFFP standard specifications.

4.1. Reprofiling

Where possible, existing vegetation should be used to re-vegetate/stabilise the reprofiled slopes. Where existing vegetation is not sufficient to revegetate the reprofiled slopes, the reprofiling should be followed-up by standard bare peat restoration techniques (i.e. brash and application of lime, seed and fertiliser); likely necessary for the larger re-profiling sections identified at Rishworth.

4.2. Bare Peat Restoration: Heather Brash & LSF application

For steep gully sides/hagg edges, re-profiling to reduce the slope angle is considered necessary to help stabilise and revegetate such bare peat. Re-profiling work is outlined in section 4.1, however the subsequent bare peat restoration works are key to ensuring revegetation of re-profiled slopes.

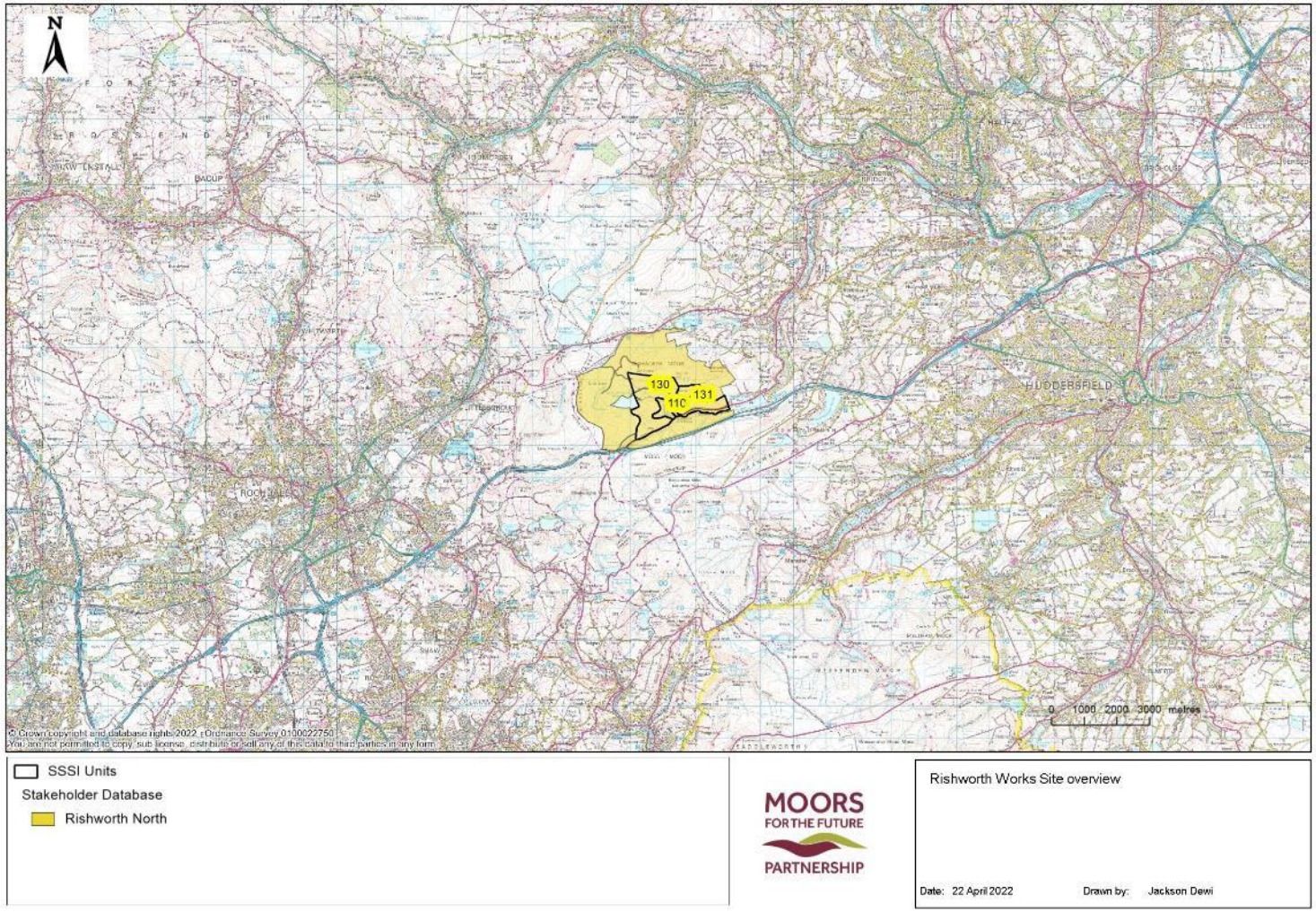
On the Rishworth site, there is not considered sufficient heather suitable for cutting to provide heather brash for these works. Therefore, heather brash will need to be sourced from a suitable donor site elsewhere and imported to the site. Suitable biosecurity checks from the donor site/donor material will need to be undertaken prior to importing to site. MFFP has an established protocol for this.

Based on the small extent and/or linear nature of the identified bare peat and re-profiling areas, it is envisaged that lime, seed and fertiliser application would be undertaken by hand rather than through helicopter based aerial application. The contractor should consider and specify in their tender return the proposed methodology for hand application to ensure consistent even application (i.e. pre-weighed bags of materials and use of backpack spreaders or similar). It is suggested that initial LSF materials are transported on to site in pre-weighed sealed bags included with each brash bag. However, the contractor may propose their own methodology.

Allowance should be made for 2 years of lime and fertiliser application (i.e. year one lime, seed and fertiliser applied after brash application, then maintenance lime and fertiliser in year 2). Follow-up ("maintenance") Lime and fertiliser application will be applied approximately 12 months after initial LSF application. The contractor shall specify in their tender return the proposed methodology for transporting materials on to site and method for waste removal.

5. Maps

Map 1: Works Site overview
Map 2: Access and Lift Site Overview
Map 3: Machine Works and Access
Map 4: Works Requiring Aerial Lifting & Lift Sites
Map 5: Sphagnum and vascular plug planting
Map 6: Previous Completed Works


N
130
131
110
HUDDERSFIELD
0 1000 2000 3000 metres
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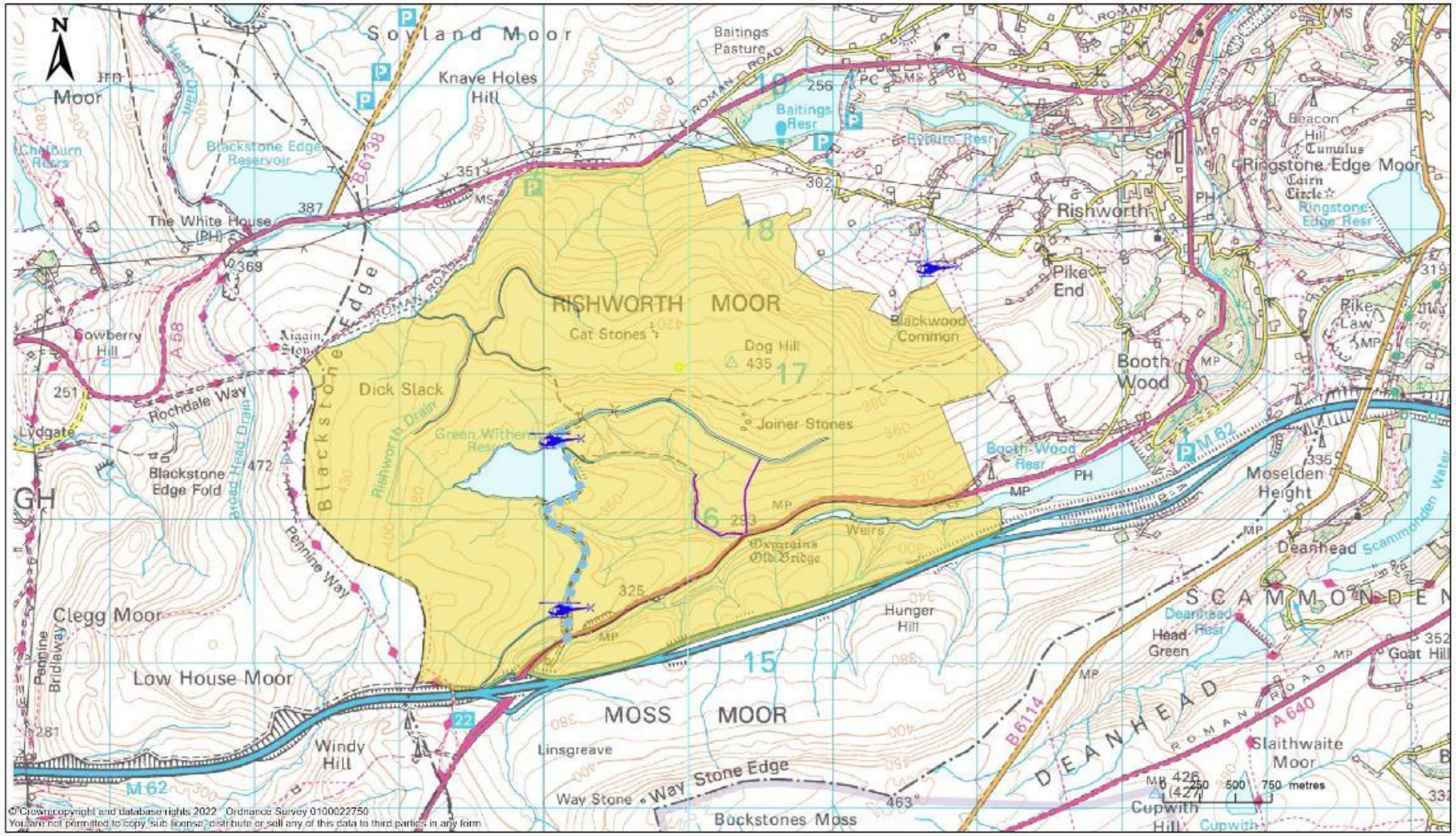
SSSI Units
Stakeholder Database
Rishworth North
MOORS FOR THE FUTURE PARTNERSHIP
Rishworth Works Site overview
Date: 22 April 2022
Drawn by: Jackson Dewi

Map 1.



MFFP Lift Sites and Access
- Lift Site
- Machine Access
- Pedestrian Access

Stakeholder Database

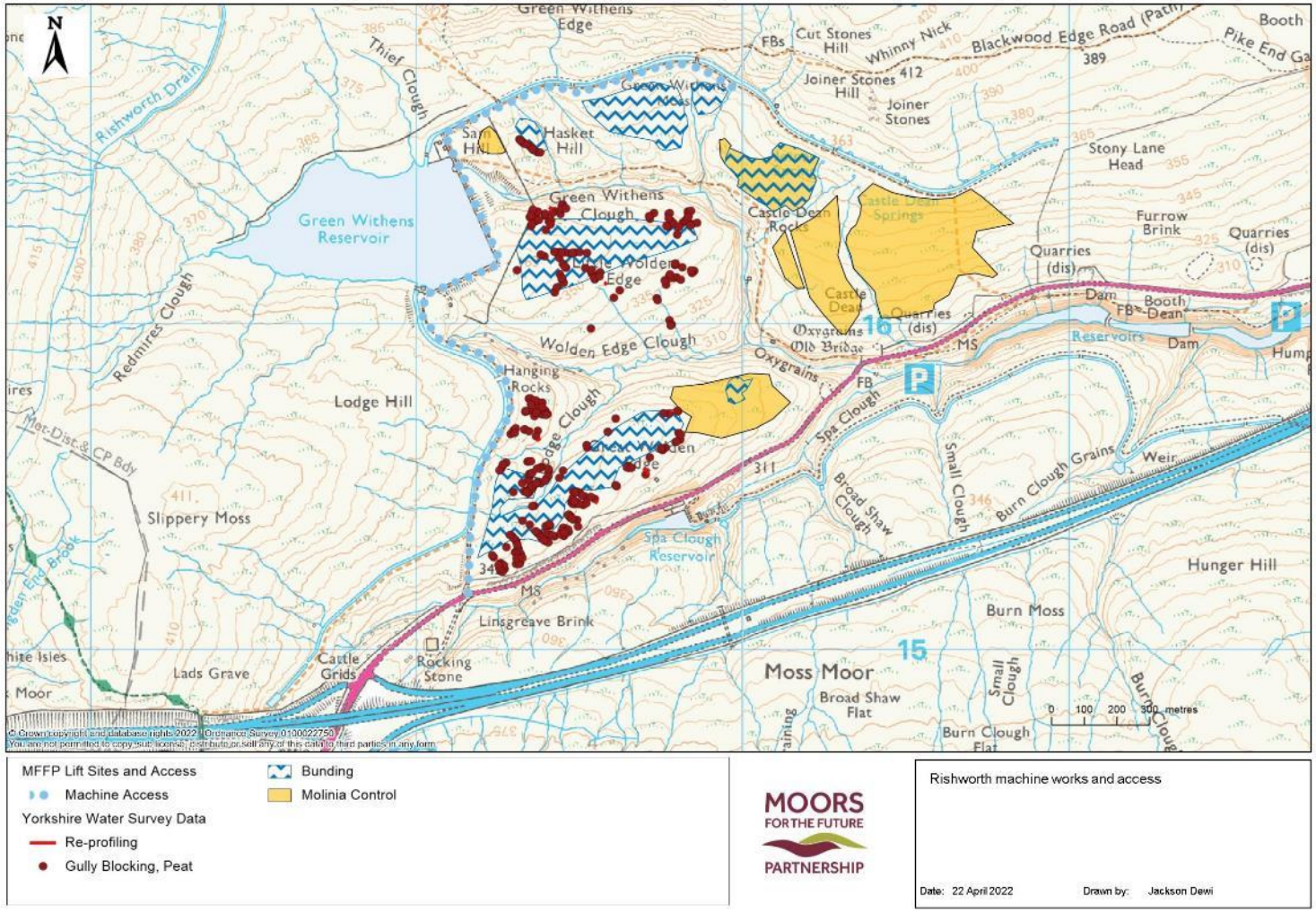
Rishworth North

MOORS FOR THE FUTURE PARTNERSHIP

Rishworth Access and lift sites overview

Date: 22 April 2022 Drawn by: Jackson Dewi

Map 2


N
Green Withens Edge
Thief Clough
Rishworth Drain
Green Withens Moss
Hasket Hill
Green Withens Reservoir
Green Withens Clough
Wolden Edge
Wolden Edge Clough
Redmires Clough
Lodge Hill
Hanging Rocks
Slippery Moss
Met-Dist & CP Bdy
Spa Clough Reservoir
Linsgreave Brink
Cattle Grids
Rocking Stone
Lads Grave
Moss Moor
Broad Shaw Flat
Burn Clough Flat
Burn Moss
Hunger Hill
Cut Stones Hill
Whinny Nick
Blackwood Edge Road (Path)
Joiner Stones Hill
Joiner Stones
Stony Lane Head
Castle Dean Rocks
Castle Dean Springs
Furrow Brink
Quarries (dis)
Booth Dean Reservoirs
Dam
Oxygrains
Old Bridge
Spa Clough
Small Clough
Broad Shaw Clough
Burn Clough Grains
Weir
15
16
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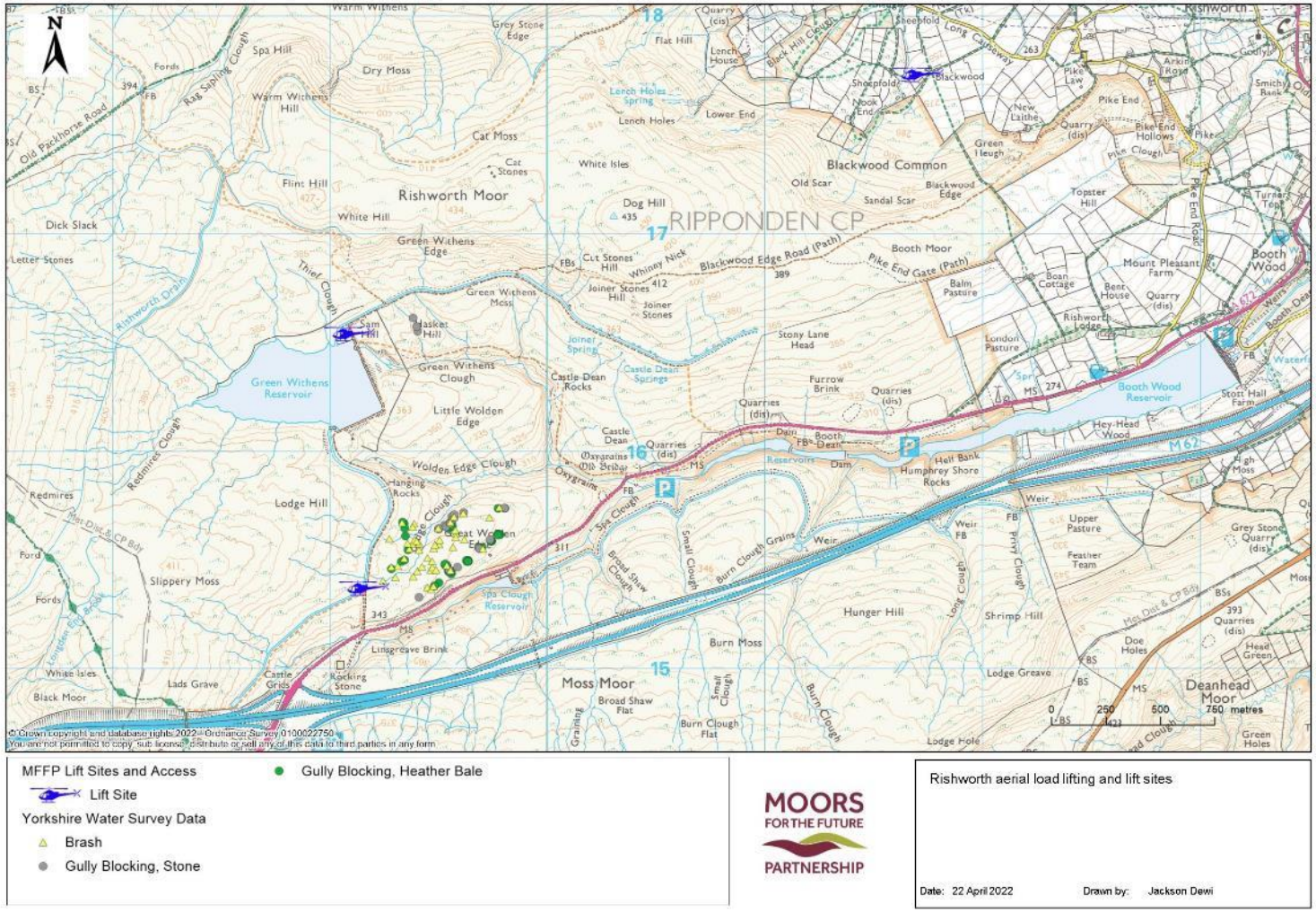
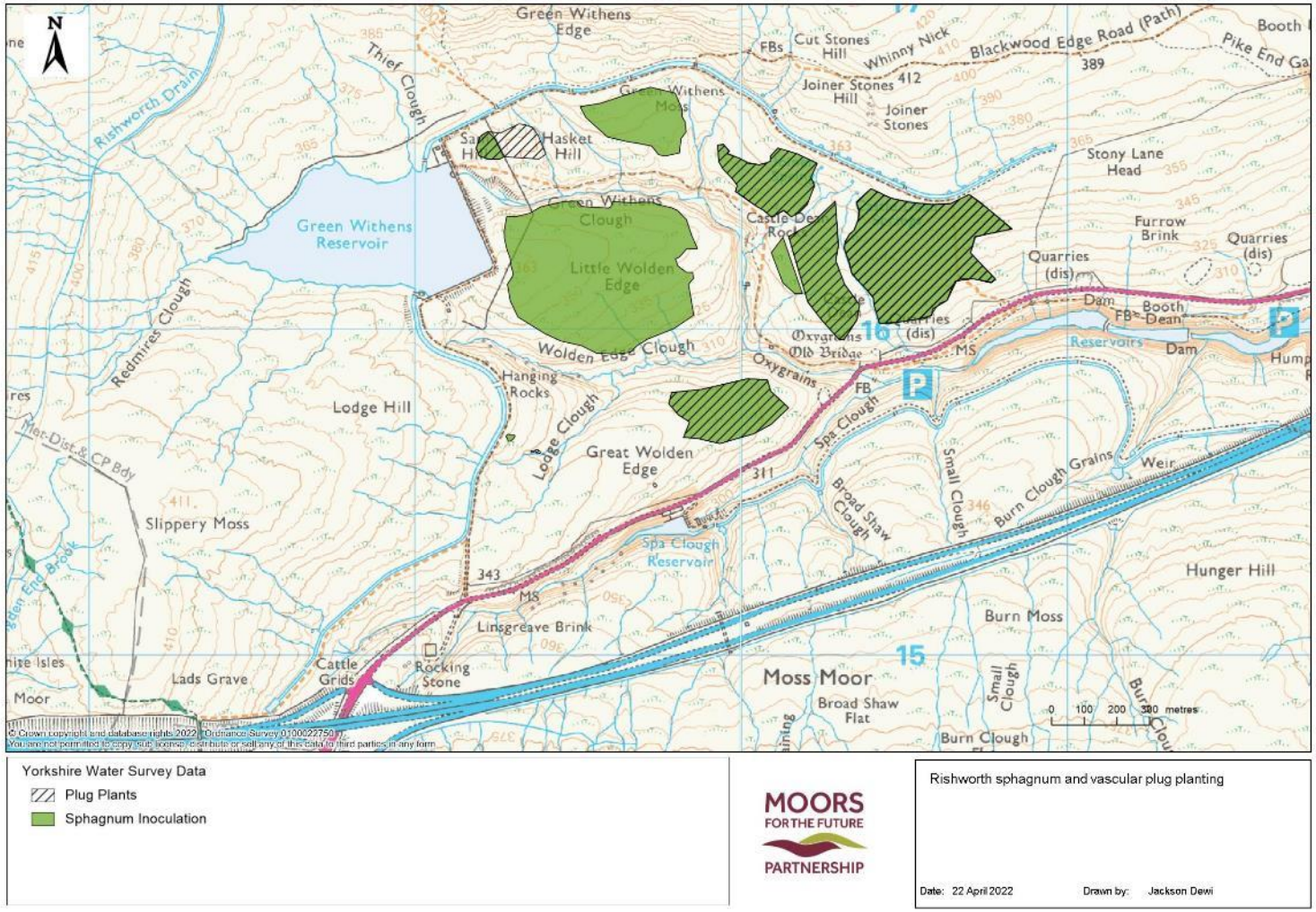
MFFP Lift Sites and Access
Machine Access
Yorkshire Water Survey Data
Re-profiling
Gully Blocking, Peat
Bunding
Molinia Control
MOORS FOR THE FUTURE PARTNERSHIP
Rishworth machine works and access
Date: 22 April 2022
Drawn by: Jackson Dewi

Map 3


MFFP Lift Sites and Access
Lift Site
Yorkshire Water Survey Data
Brash
Gully Blocking, Stone
Gully Blocking, Heather Bale
MOORS FOR THE FUTURE PARTNERSHIP
Rishworth aerial load lifting and lift sites
Date: 22 April 2022
Drawn by: Jackson Dewi
RIPPONDEN CP
Rishworth Moor
Blackwood Common
Moss Moor
Deanhead Moor
Booth Wood Reservoir
Green Withens Reservoir
Spa Clough Reservoir
0 250 500 750 metres

Map 4



Yorkshire Water Survey Data

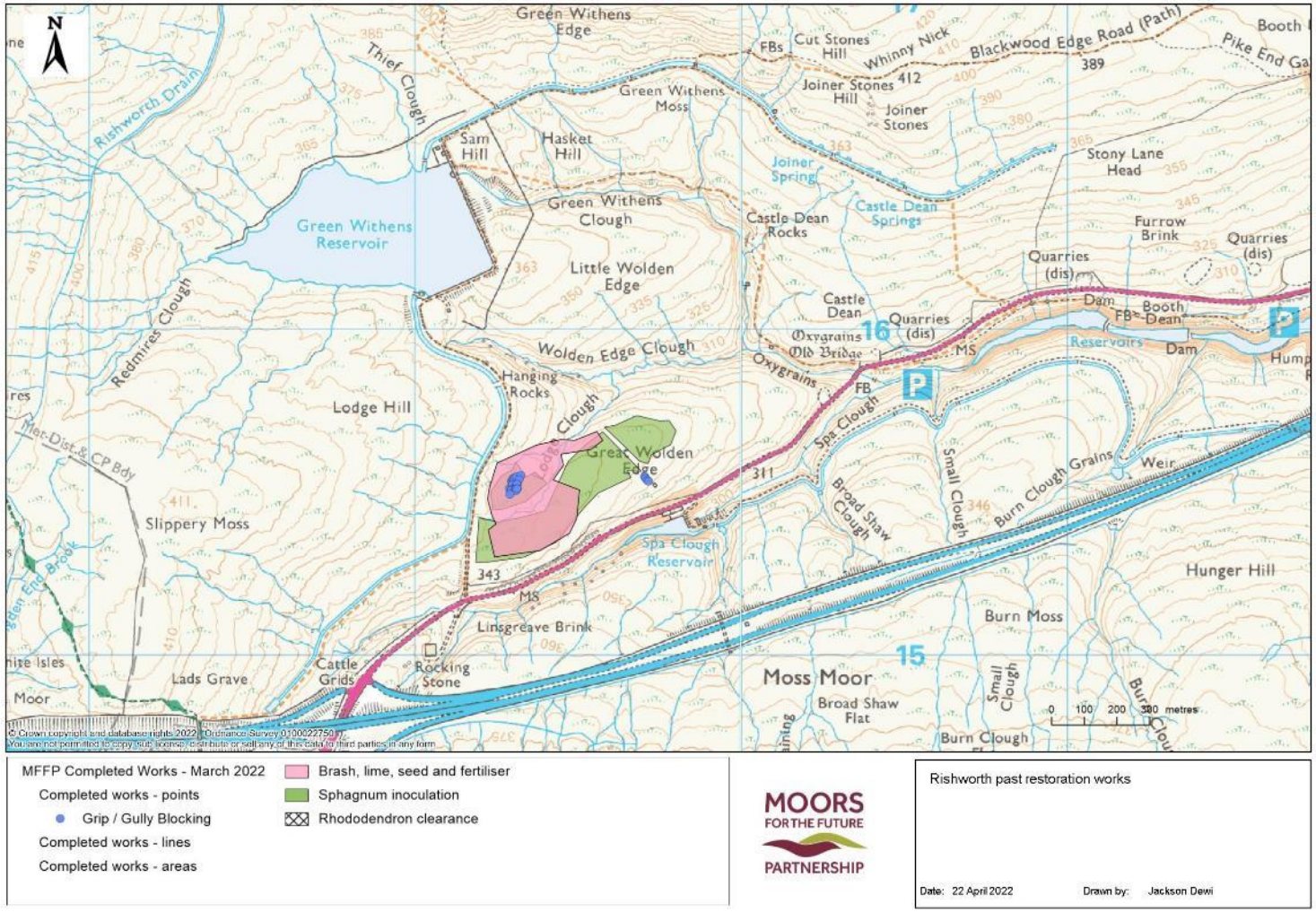
- Plug Plants
- Sphagnum Inoculation

MOORS FOR THE FUTURE PARTNERSHIP

Rishworth sphagnum and vascular plug planting

Date: 22 April 2022 Drawn by: Jackson Dewi

Map 5


Green Withens Edge
Thief Clough
Rishworth Drain
Green Withens Moss
Sam Hill
Hasket Hill
Green Withens Reservoir
Green Withens Clough
Little Wolden Edge
Redmires Clough
Wolden Edge Clough
Hanging Rocks
Lodge Hill
Met-Dist.&CP Bdy
Slippery Moss
Great Wolden Edge
Spa Clough Reservoir
Linsgreave Brink
Cattle Grids
Rocking Stone
Lads Grave
Moor
Cut Stones Hill
Whinny Nick
Blackwood Edge Road (Path)
Joiner Stones Hill
Joiner Stones
Joiner Spring
Stony Lane Head
Castle Dean Rocks
Castle Dean Springs
Furrow Brink
Quarries (dis)
Castle Dean
Oxygrains Old Bridge
Oxygrains
Reservoirs
Dam
Booth Dean
Spa Clough
Small Clough
Broad Shaw Clough
Burn Clough Grains
Weir
Hunger Hill
Burn Moss
Moss Moor
Broad Shaw Flat
Burn Clough
0 100 200 300 metres
© Crown copyright and database rights 2022 Ordnance Survey 0100022750
MFFP Completed Works - March 2022
Completed works - points
Grip / Gully Blocking
Completed works - lines
Completed works - areas
Brash, lime, seed and fertiliser
Sphagnum inoculation
Rhododendron clearance
Rishworth past restoration works
Date: 22 April 2022
Drawn by: Jackson Dewi

Map 6