

GLANLASH : HABITAT AREA MEASUREMENTS

rev 10 August 2024

HABITAT AREAS BEFORE START OF MINING

UNDISTURBED HABITATS m ²	REVISED EXTENSION SITE UNDISTURBED HABITATS (within application boundary) m ²
Woodland	29,388
Scrub	2,000
Agricultural Grassland	52,479
Rush Grassland	2,116
Molinia Grassland	14020
Reedbed	0
Pond	0
Total	100,003
Hedgerows in linm	698
Molinia Grassland outside Extension Application Boundary within Land under Control of Applicant	23144

**REMOVALS FROM SITE DUE TO CLEARANCE TO
ENABLE EXCAVATION AND STORAGE**

REMOVED HABITATS m ²	REVISED EXTENSION SITE REMOVED HABITATS (within application boundary) m ²
Woodland within Storage Area	3810
Woodland within Excavation Area	19345
Scrub	500
Agricultural Grassland	43166
Rush Grassland	1453
Reed Bed	0
Pond	0
Total	68274
Hedgerows in linm	441

RESTORATION

RESTORED HABITATS m ²	REVISED EXTENSION SITE RESTORED HABITATS (within application boundary) m ²	RESTORED HABITATS (within area in Control of Applicant) ADVANCED PLANTING m ²	RESTORED HABITATS (within area in Control of Applicant and Tirydall) m ²	REVISED EXTENSION SITE RESTORED HABITATS (within area in Control of Applicant and Tirydall) m ²
Woodland	21320			21320
Advance woodland planting	5700	20190	12800	38690
Scrub	6880			6880
Agricultural Grassland	25899			25899
Rush Grassland	8280			8280
Reedbed	40			40
Pond	155			155
Total	68274	20190	12800	101264
Hedgerows in linm	443		571	1014

The hedgerows removed in Glan Lash Extension and Original Area is 441linm and double mitigation is 882linm. 1014linm of new hedgelines achieved

Woodland to be removed is 23155m² and double mitigation is 46310m² - actual woodland planting 60160m² achieved
Woodland Advance Planting where woodland removed in Extension Excavation Area is 19345m² and double mitigation would be 38690m²

MITIGATION WOODLANDS ADVANCE PLANTING MW1-MW9

PROPOSED DORMOUSE MITIGATION WOODLANDS m ²	RESTORED HABITATS (within area Application Site) m ²	RESTORED HABITATS (within area in Control of Applicant) m ²	RESTORED HABITATS (within area in Control of Applicant Tirydall) m ²	TOTAL RESTORED HABITATS m ²
MW1 Woodland		1700		1700
MW2 Woodland		1900		1900
MW3 Woodland		500		500
MW4 Woodland		900		900
MW5 Woodland		6520		6520
MW6 Woodland		4420		4420
MW7 Woodland	5700			5700
MW8 Woodland		4250		4250
MW9 Woodland 2018			12800	12800
Total	5700	20190	12800	38690

RESTORATION WOODLANDS ON EXTENSION AREA

MW10 Woodland	4950			4950
MW11 Woodland	12830			12830
MW12 Woodland	3690			3690
Total	21470	0	0	21470
TOTAL WOODLAND REPLANT	27,170	20,190	12,800	60,160

MARSH FRITILLARY HABITAT RETAINED, RESTORED AND MANAGED:

THE TOTAL AREA OF PURPLE MOOR-GRASS (MOLINIA)- RUSH PASTURE TO BE RETAINED, RESTORED AND MANAGED .	
Area outside application boundary within area under Control of Applicant	
Area within Application Area	23144m ²
TOTAL AREA	41799m²

HABITAT AREA GAIN/LOSS

HABITATS	REVISED EXTENSION SITE EXISTING HABITATS (within application boundary)	REVISED EXTENSION SITE EXISTING AREAS RETAINED HABITATS (within application boundary)	REVISED EXTENSION SITE HABITATS AREAS RESTORED (within application boundary and incl land in Applicants Control and Tirydail)	REVISED EXTENSION SITE HABITATS AREAS RETAINED AND RESTORED (within application boundary and incl land in Applicants Control and Tirydail)	REVISED EXTENSION SITE EXISTING HABITAT AREA PERCENTAGES (within application boundary)	REVISED EXTENSION SITE HABITATS RETAINED AND RESTORED HABITAT AREA PERCENTAGES (within application boundary and incl land in Applicants Control and Tirydail)	REVISED EXTENSION SITE HABITATS TOTAL AFTER RESTORATION (within application boundary and incl land in Applicants Control and Tirydail) AREA INCREASE/LOSS FOR INDIVIDUAL HABITATS AND OVERALL HABITAT AREA INCREASE
m2	m ²	m ²	m ²	m ²	m2	%	%
EXTENSION SITE							
Woodland	29,388	6233	27020	33253	29.40	33.25	3.85% % Gain-Increased Area
Scrub	2,000	1500	6880	8380	2.00	8.38	6.38% % Gain-Increased Area
Agricultural Grassland	52,479	9313	25899	35212	52.47	35.12	-17.35% %Loss- Reduced Areas
Rush Grassland	2,116	663	8280	8943	2.11	8.94	6.83% % Gain-Increased Area
Molinia Grassland	14020	5395	8625	14020	14.02	14.02	8.60% Area requiring restoration before it can be managed to provide an increased area of Marsh Fritillary Habitat
Reedbed	0	0	40	40	0	0.04	0.04% % Gain-New Habitat Area
Pond	0	0	155	155	0	0.16	0.16% % Gain-New Habitat Area
OUTSIDE EXTENSION SITE							
Woodland within Applicant's Control and Tirydail			32990	32990	32.99	32.99	32.99% % Gain-Increased Area
Molinia Grassland outside Extension Application Boundary within Land under Control of Applicant		17394	5750	23144	17.39	23.14	5.75% Area requiring restoration before it can be managed to provide an increased area of Marsh Fritillary Habitat
Total	100003.00	40498.00	115639.00	156137.00			47.25% TOTAL OVERALL INCREASE IN HABITAT AREAS
Hedgerows in linm	698	257	1014	1271	698	1271	82% HEDGEROW TOTAL INCREASE

Net Gain of Habitat Areas for the Molinia Grass and Marsh Fritillary potential Habitat only considers gain where restoration operations are necessary to bring an area in a suitable condition for ongoing management suitable for the Marsh Fritillary Butterfly.

Areas with Marsh Fritillary potential only requiring management are not considered.