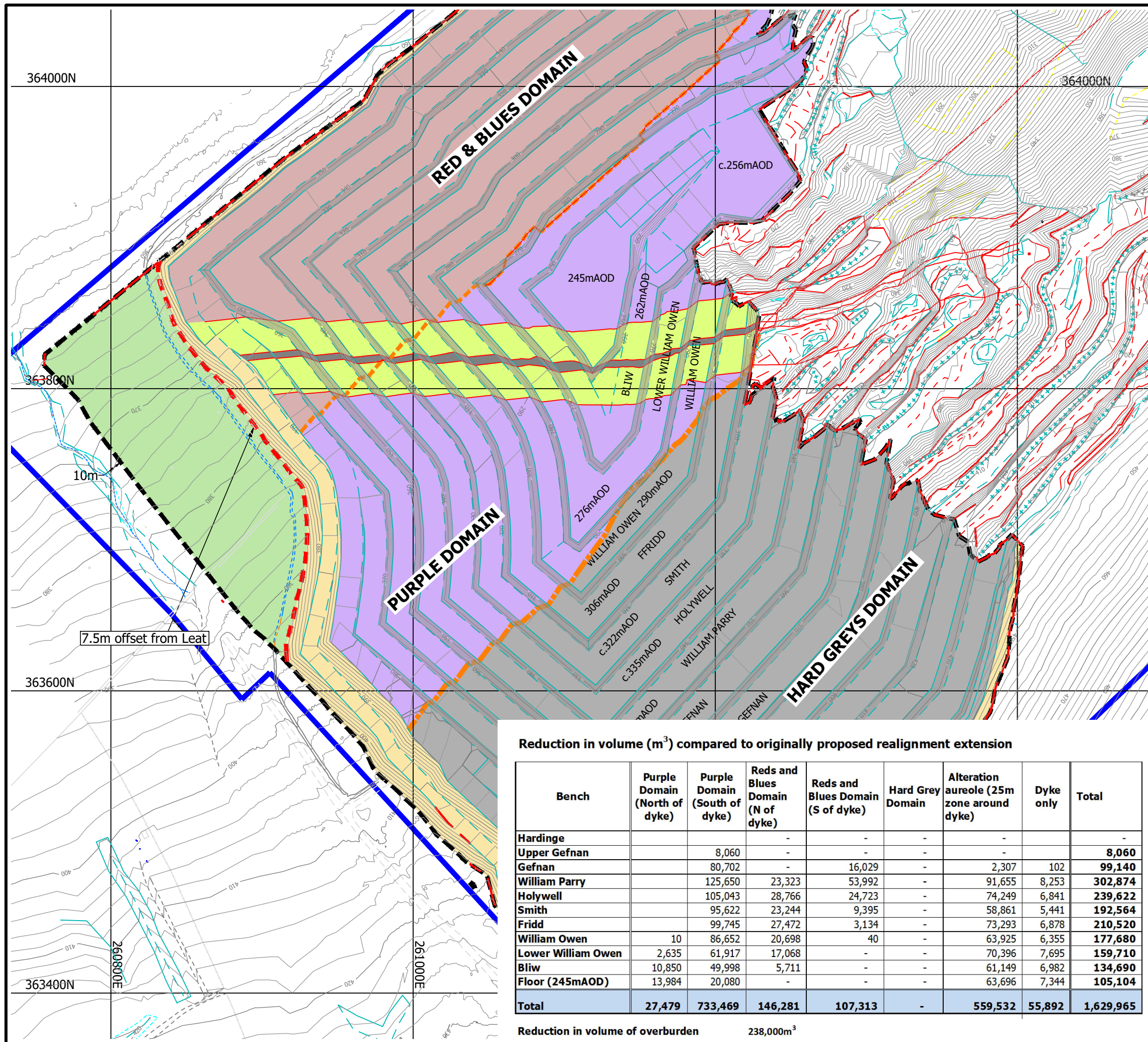



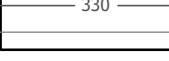












**APPENDIX 9/1
DEVELOPMENT PLAN**



LEGEND

-  Company Land Holding
-  Crest of existing quarry face
-  Crest of other slopes
-  Ground surface contours (m AOD)
-  Reduction in excavation area to avoid habitat mapped as Blanket Mire M19A
-  Originally proposed realignment extension excavation limit
-  Excavation limit with 7.5m stand-off from Leat

Inferred geology in proposed excavation

-  Excavated slopes in Boulder Clay
-  Slate within the Hard Greys Domain
-  Slate within the Purple Domain
-  Slate within the Red and Blues Domain
-  Dyke (extrapolated from outcrop) 25m envelope around dyke
-  Conjectural position of Hard Grey Boundary Fault
-  Conjectural position of Purple Boundary Fault

Version	Revision and compilation notes	Date
a	Draft	11.03.2021

Reduction in volume (m³) compared to originally proposed realignment extension

Bench	Purple Domain (North of dyke)	Purple Domain (South of dyke)	Reds and Blues Domain (N of dyke)	Reds and Blues Domain (S of dyke)	Hard Grey Domain	Alteration aureole (25m zone around dyke)	Dyke only	Total
Hardinge			-	-	-	-		-
Upper Gefnan		8,060	-	-	-	-		8,060
Gefnan		80,702	-	16,029	-	2,307	102	99,140
William Parry		125,650	23,323	53,992	-	91,655	8,253	302,874
Holywell		105,043	28,766	24,723	-	74,249	6,841	239,622
Smith		95,622	23,244	9,395	-	58,861	5,441	192,564
Fridd		99,745	27,472	3,134	-	73,293	6,878	210,520
William Owen	10	86,652	20,698	40	-	63,925	6,355	177,680
Lower William Owen	2,635	61,917	17,068	-	-	70,396	7,695	159,710
Bliw	10,850	49,998	5,711	-	-	61,149	6,982	134,690
Floor (245m AOD)	13,984	20,080	-	-	-	63,696	7,344	105,104
Total	27,479	733,469	146,281	107,313	-	559,532	55,892	1,629,965

Reduction in volume of overburden 238,000m³

Client
Welsh Slate Ltd.

Project
Penrhyn Quarry

Reduced excavation void and slate quantities resulting from retention of area mapped as Blanket Mire M19A



Upton House
Market Street, Charlbury
Oxfordshire OX7 3PJ
United Kingdom

tel +44 (0)1608 810374
fax +44 (0)1608 810093
e-mail info@gwp.uk.com
web www.gwp.uk.com

Date 11.03.2021	Drawn IB	Checked DJ	Scale 1:2,500 at A3
Drawing Ref WPENG2103	Drawing No 1	Version a	