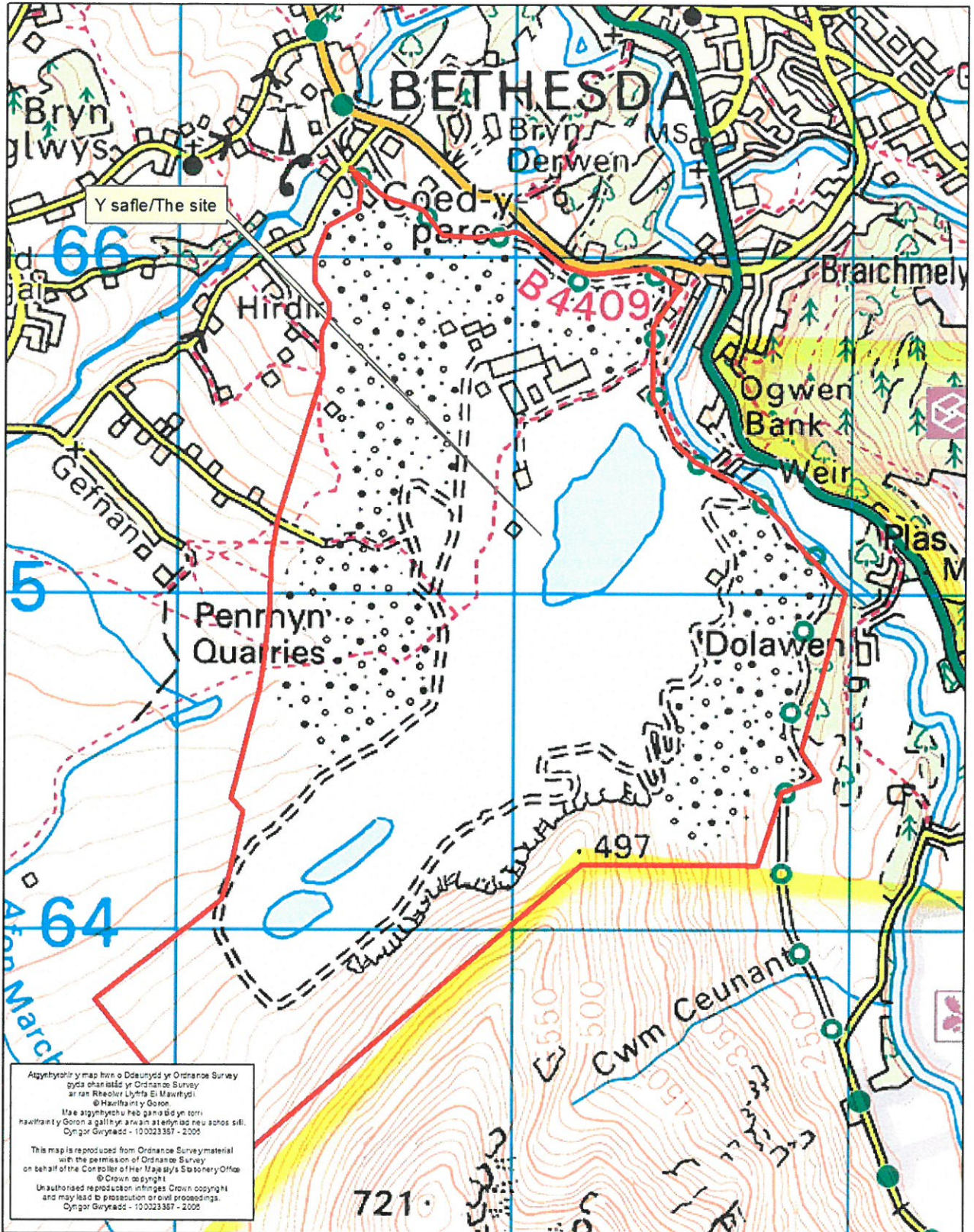


Rhif y Cais / Application Number : C16-1164-16-MW

Cynllun lleoliad ar gyfer adnabod y safle yn unig. Dim i raddfa.
Location Plan for identification purposes only. Not to scale.



Agyblychiol y map hon o Ddeunydd yr Ordnance Survey gyda oheredd yr Ordnance Survey ar ran Rheolwr Llyfta Eil Mawrtydi.
© Hawlfraint y Goron.
Mae agyblychiol hon gan a ddydd yn torri hawlfraint y Goron a gall i'w arwain at enydd neu achos sifil.
Cynllun Gwynedd - 100223357 - 2005

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Cynllun Gwynedd - 100223357 - 2005

LEGEND



MINING SITE
(MINERAL DEVELOPMENTS)



Welsh / Slate



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PENRHYN QUARRY

ENVIRONMENTAL STATEMENT

AERIAL IMAGE

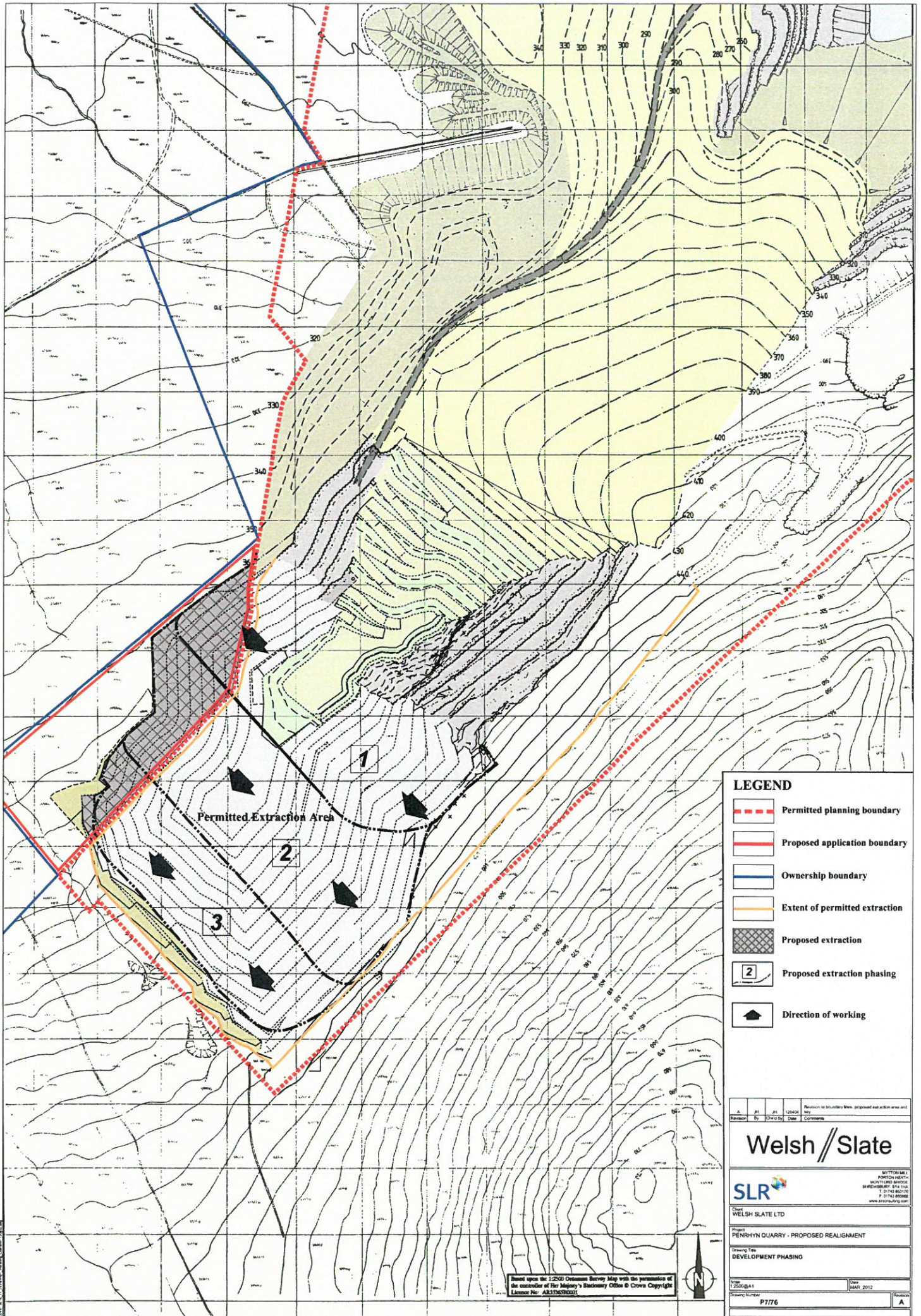
PQR 2/2

Scale 1:12 500 @ A3

Date SEPTEMBER 2016



GOOGLE EARTH ©



LEGEND

- Permitted planning boundary
- Proposed application boundary
- Ownership boundary
- Extent of permitted extraction
- Proposed extraction
- Proposed extraction phasing
- Direction of working

Revision	By	Checked By	Date	Reason for Boundary When Proposed Extraction Area and Key Comments

Welsh // Slate

SLR

Client: WELSH SLATE LTD
 Project: PENRHYN QUARRY - PROPOSED REALIGNMENT
 Drawing Title: DEVELOPMENT PHASING

Scale: 1:2500 @ A1
 Date: MAR 2012
 Drawing Number: P176

Based upon the 1:2500 Ordnance Survey Map with the permission of the controller of Her Majesty's Stationary Office © Crown Copyright Licence No: AB376920001



Legend

Date DECEMBER 2015

Drawing Number PQ 2/4

Drawing Title

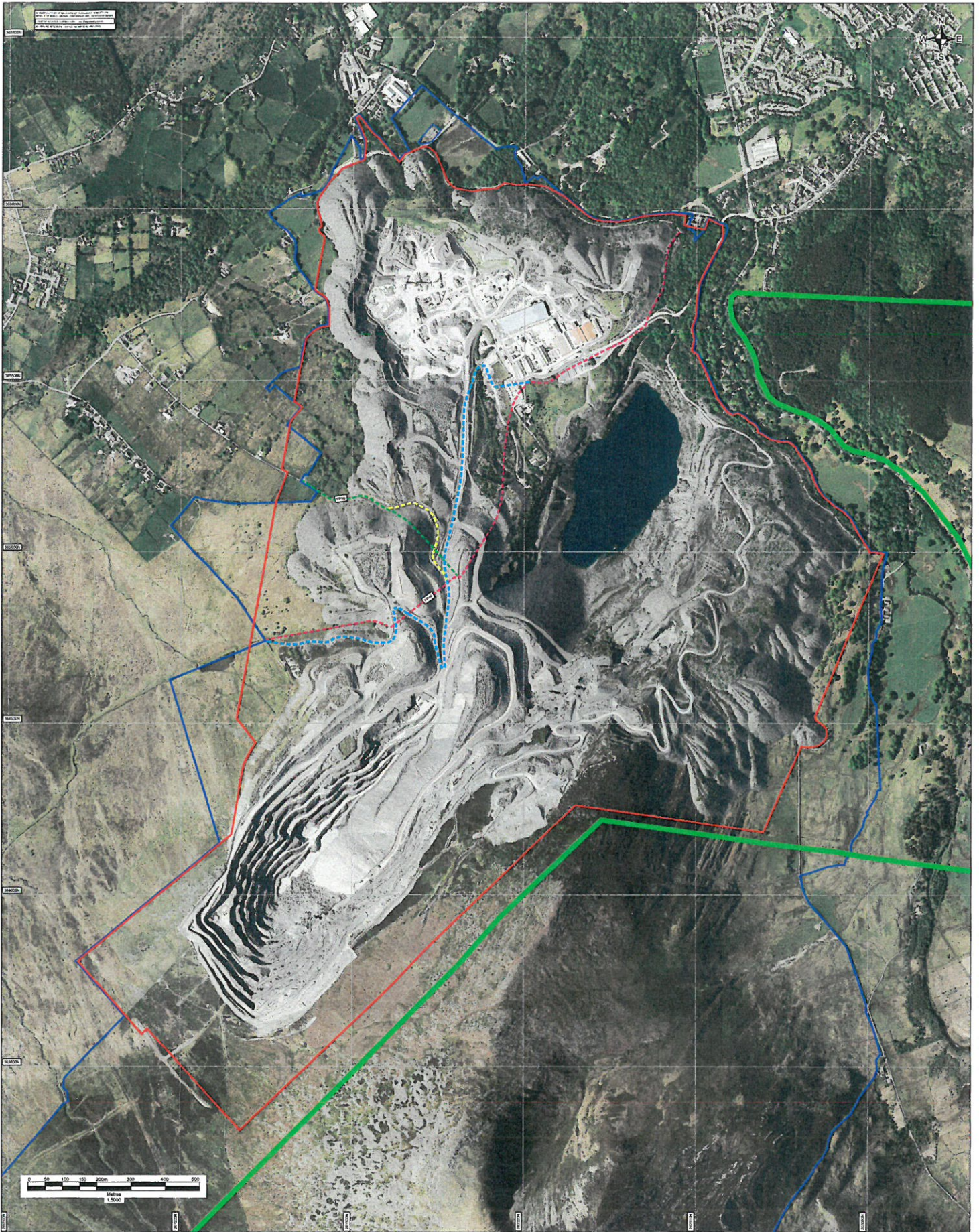
AERIAL PHOTOGRAPH

Site **PENRHYN QUARRY**

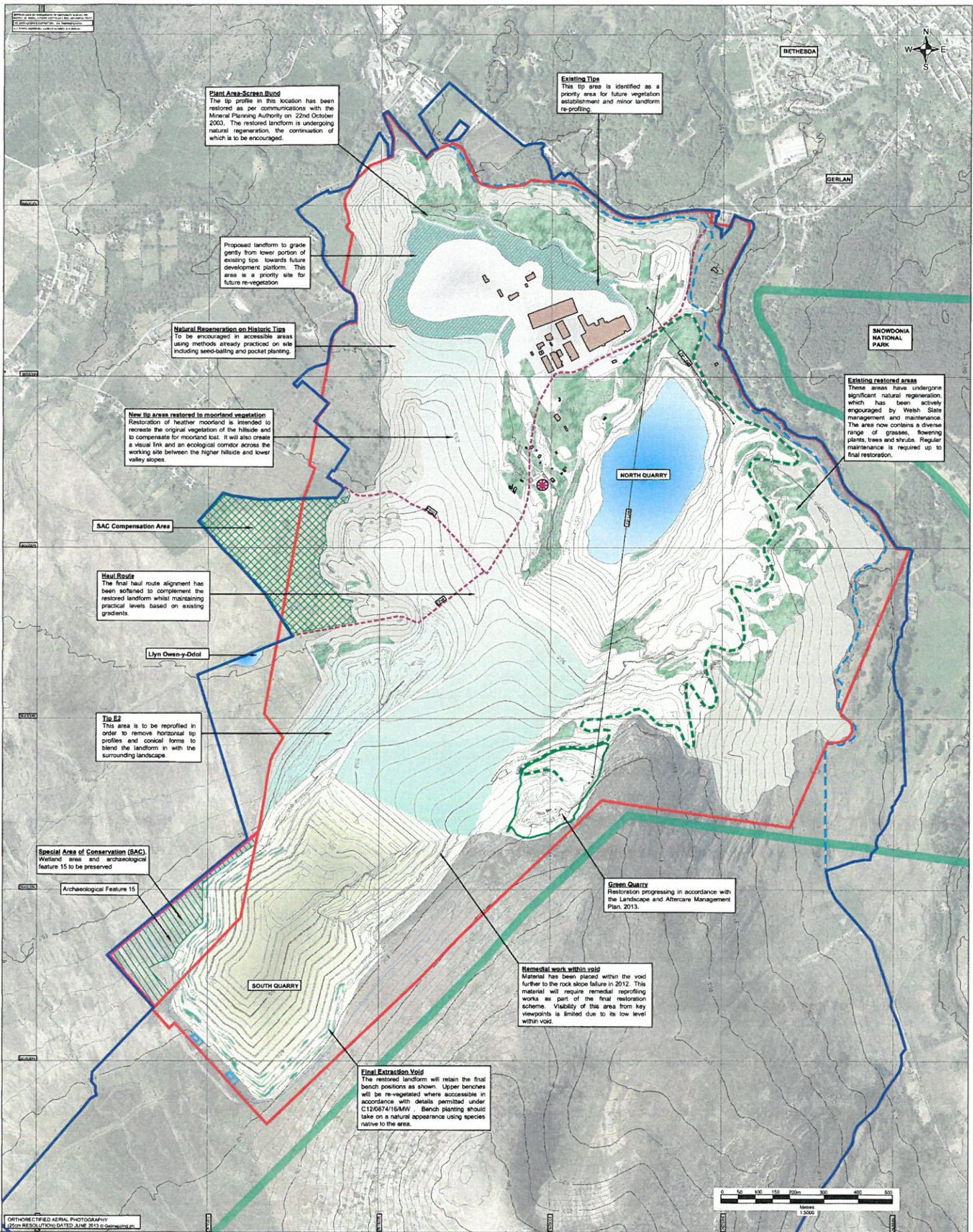
Project **WORKING OF SLATE TIPS**

8 PARKER COURT
STAFFS TECHNOLOGY PARK
STAFFORD, ST18 0WP
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F: 01785 241780
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<p>LEGEND</p> <ul style="list-style-type: none"> PERMITTED PLANNING BOUNDARY COMPANY LANDHOLDING BOUNDARY SNOWDONIA NATIONAL PARK BOUNDARY FOOTPATH 50 - PERMITTED ROUTE, 2002 FOOTPATH 46 - PERMITTED ROUTE, 2002 FOOTPATH 50 - PROPOSED ROUTE MODIFICATION FOOTPATH 46 - PROPOSED ROUTE MODIFICATION 	<p>ORTHORECTIFIED AERIAL PHOTOGRAPHY (25cm RESOLUTION) DATED JUNE 2013 © GeoMapping plc</p>	<p>Welsh//Slate</p> <p>SLR <small>11 FAWCER COURT 111 BROADWAY, ST. ASAPH NORTH, Gwynedd, LLANFYLLOU Gwynedd, LLANFYLLOU, LLANFYLLOU Gwynedd, LLANFYLLOU, LLANFYLLOU</small></p> <p>PENRHYN QUARRY ENVIRONMENT ACT 1995 REVIEW PUBLIC RIGHTS OF WAY MODIFICATIONS P7/109</p> <p>Scale: 1:5,000 @ A1 Date: SEPTEMBER 2014</p>
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Plant Area-Screen Bund
 The tip profile in this location has been restored as per communications with the Mineral Planning Authority on 22nd October 2003. The restored landform is undergoing natural regeneration, the continuation of which is to be encouraged.

Existing Tip
 This tip area is identified as a priority area for future vegetation establishment and minor landform re-profiling.

Proposed landform to grade gently from lower portion of existing tip, towards future development platform. This area is a priority site for future re-vegetation

Natural Regeneration on Historic Tip
 To be encouraged in accessible areas using methods already practiced on site including seed-baiting and pocket planting.

New tip areas restored to moorland vegetation
 Restoration of heather moorland is intended to recreate the original vegetation of the hillside and to compensate for moorland lost. It will also create a visual link and an ecological corridor across the working site between the higher hillside and lower valley slopes.

Existing restored areas
 These areas have undergone significant natural regeneration, which has been actively encouraged by Welsh State management and maintenance. The area now contains a diverse range of grasses, flowering plants, trees and shrubs. Regular maintenance is required up to final restoration.

SAC Compensation Area

Haul Route
 The final haul route alignment has been achieved to complement the restored landform whilst maintaining practical levels based on existing gradients.

Llyn Owen-y-Ddol

Tip E2
 This area is to be reprofiled in order to remove horizontal tip profiles and conical forms to blend the landform in with the surrounding landscape.

Special Area of Conservation (SAC)
 Wetland area and archaeological feature 15 to be preserved

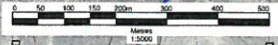
Archaeological Feature 15

SOUTH QUARRY

Green Quarry
 Restoration progressing in accordance with the Landscape and Aftercare Management Plan, 2013.

Remedial work within void
 Material has been placed within the void further to the rock slope failure in 2012. This material will require remedial reprofiling works as part of the final restoration scheme. Visibility of this area from key viewpoints is limited due to its low level within void.

Final Extraction Yield
 The restored landform will retain the final bench positions as shown. Upper benches will be re-vegetated where accessible in accordance with details permitted under C12/0874/16/MW. Bench planting should take on a natural appearance using species native to the area.



ORTHORECTIFIED AERIAL PHOTOGRAPHY
 25cm RESOLUTION DATED JUNE 2013 © Geographix Ltd.

LEGEND

	PLANNING BOUNDARY FOR C96A/0020/16/MW		HISTORIC TIPS-EXISTING CONFIGURATION TO BE PRESERVED		SPECIAL AREA OF CONSERVATION (SAC)
	PLANNING BOUNDARY FOR C12/0874/16/MW (RE-ALIGNMENT)		NEW TIP AREAS RESTORED TO MOORLAND VEGETATION		SAC COMPENSATION AREA
	LANDHOLDING BOUNDARY		RESTORATION IN PROGRESS- EXISTING CONFIGURATION TO BE PRESERVED		FOOTPATHS TO BE REINSTATED
	GREEN QUARRY BOUNDARY		RE-VEGETATION AS PART OF ONGOING RESTORATION		LON LAS OWGEN CYCLE TRACK
	SNOWDONIA NATIONAL PARK BOUNDARY		PRIORITY SITE FOR FUTURE RE-VEGETATION		EXISTING CONFIGURATION PRESERVED ALLOWING RETENTION OF VEGETATION AND ARCHAEOLOGICAL SITES
	ZIP-LINE ACCESS		PROPOSED LEAT ALIGNMENT (ENVIREAU WATER)		

Revision	By	CHK'd By	Date	Comments
A	MW	JBH	14/05/14	Final design review

SUMMARY OF VOLUMETRIC CALCULATIONS

Material	Volume	Volume	Volume	Volume
1996 - PP Jan 2000 - Volume 9 Permitted	Overburden	3,450,000 m ³		
	Final waste	29,500,000 m ³		
	Total	32,950,000 m ³		
2011 - PP Jan 2000 - Volume 9 Permitted	Overburden	1,988,000 m ³		
	Total waste	17,881,000 m ³		
Material Movements 1996 - 2011 - Volume 9	Overburden	5,438,000 m ³		
	Final waste	29,500,000 m ³		
	Total	34,938,000 m ³		
Net to be shown for 10% later waste		2,242,000 m ³		
Net to be shown for 10% later waste		18,438,000 m ³		

Material	Volume	Volume	Volume	Volume
1996 - PP 2013 - Volume 10 Tip	Overburden	1,870,800 m ³		
	Final waste	9,217,800 m ³		
	Total	11,088,600 m ³		

Welsh State

SLR
 STURGES COLBY
 SENIOR CONSULTANTS
 AND ARCHITECTS
 STAFFORD STREET
 STURGES COLBY
 STURGES COLBY

PENRHYN QUARRY
 2014 RESTORATION REVIEW SCHEME
 REVISED RESTORATION PROPOSALS

P77106A

Scale: 1:5,000 @ A1 Date: MARCH 2014