		Tim Dof Number		1.0440
Coal Tip Name	Godre'r-Graig Higher / Pentwyn No. 3 Levels	Tip Ref Number Ownership Status		L044C nknown
Located in	Godregraig, NPT	Tip Category		D
Inspection led by		Undertaken on behalf of	Welsh	Government
Date of inspection	15/02/2022	Date of last inspection	U	nknown
Weather	Drizzle Wet Gentle Breeze			tle Breeze
	DIIZZIE	VVCt	Ger	ille Dieeze
Comments on access and any limitations	Access to the tip was gained along an access track that begins on Graig Road and leads to Pentwyn Farm. A limited visual inspection of the tip was conducted due to dense vegetation growth and a steep sided flank. Therefore, instability features may exist on the body of the tip but could not be inspected at the time of inspection.			
	<u> </u>			I
		Description		Status
	Consider constructing formali unnamed issue.	sed drainage along the len	gin of the	2
RAG Status: Capital & Maintenance Works	Consider constructing a retaining wall along the length of the toe adjacent to the access track. 2			2
	Consider liaising with the local planning officer to investigate whether planning permission was given for the quarry rock tip to be deposited on the tip plateau. Also potentially consider undertaking a more detailed geotechnical assessment of the stability of the tip due to loading of the tip plateau.		2	
General Remarks	The small tip consists of a steep sided elongated lobe of end tipped colliery orientated northeast – southwest on the steep lower slopes of Mynydd Allt-y-grug. According to BGS sheet 230 the underlying bedrock geology comprises of the Llynfi mudstone, siltstone and sandstone member from the Upper Coal Measures and the superficial geology is recorded as diamicton till. There are several recorded adits across the hillside that are likely related to the Tareni Colliery works that was operational from 1903 to 1952. Later minor works in the area occurred during the late 1990s and early 2000s. The tip is generally densely vegetated with brambles, bracken and mature trees. A section of the tip plateau has been loaded with a quarry waste rock tip which was sourced from the nearby Cwar Pentwyn quarry. An unnamed issue flows through sections of the tip along the eastern boundary down to the access track at the toe of the tip. Flows are then conveyed along a scoured access track into highway drainage at the beginning of the access track. There are several minor slips and seepages present on the toe along the access track. Several residential properties are located downslope of the tip.			
	Name	Signature		Date
Author			17/02/2022	
Approver		5	21-02-2022	

OBSER	OBSERVATIONS			
	GEOTECHNICAL			
ID	Feature	Location	Comment	
22/G/01	Seepages	E-274839	Several seepages observed on the eastern section of the	
		N-206817	tip plateau adjacent to an unnamed issue.	
22/G/02	Creep	E-274855	Several distorted trunks on mature trees indicated that	
		N-206823	historical or ongoing creep was present within sections of the tip.	
22/G/03	Erosion	E-274862	Sections of the flank along the eastern boundary were	
		N-206815	scoured due to the strong flows from an unnamed issue flowing down the hillside.	
22/G/04	Erosion	E-274885	Where the unnamed issue cascaded onto the access	
22/0/04	LIOSIOII	N-206778	track, sections of the toe had been scoured and undercut.	
22/G/05	Minor slip	E-274838	Several minor slips were present along the toe adjacent	
		N-206764	to the access track.	
22/G/06	Seepages	E-274819 N-206758	Several seepages were observed emanating from natural ground and colliery spoil along the toe of the tip adjacent to the access track.	
22/G/07	Erosion	E-274807	Sections of the access track adjacent to the toe of tip	
		N-206751	were heavily scoured from surface water run-off. At the	
			time of inspection a strong flow was conveyed along the	
			access track.	
			Consider constructing formalised drainage along the	
			length of the unnamed issue to prevent water seeping into	
	Recommer	ndations	the body of the tip and further erosion of the toe.	
	Recomme	idations	Consider constructing a retaining wall along the length of	
			the toe adjacent to the access track to prevent minor slips	
			from forming.	
		ENGINEERING O	CRITICAL INFRASTRUCTURE	
ID	Feature	Location	Comment	
N/A	1 000000			
	Recommer	ndations	N/A	
	Neconnie		TATION & MONITORING	
ın	Fastana			
I D N/A	Feature	Location	Comment	
IN/A				
			Lavia	
	Recommer	ndations	N/A	
			LAND USE	
ID	Feature	Location	Comment	
			A quarry waste rock tip likely sourced from the nearby	
			Cwar Pentwyn quarry was observed on the tip plateau.	
00/1./04	Den !#	E-274831	The loading of the tip plateau may potentially cause	
22/L/01	Deposition	N-206809	instability features to form.	
			Consider liaising with the local planning officer to	
			investigate whether planning permission was given for the quarry waste rock to be deposited on the tip plateau. Also	
	_		potentially consider undertaking a more detailed	
	Recommer	ndations	geotechnical assessment of the stability of the tip due to	
			loading of the tip plateau. The assessment will highlight	
			whether the tip requires any further remediation work to	
	ensure its stable in the future.			
		CONTAMINATIO	ON / GEO-ENVIRONMENTAL	
ID	Feature	Location	Comment	
N/A				
	1		I	

Recommendations		ons	N/A
		0.	THER
ID	Feature	Location	Comment
N/A			
	<u> </u>		
	Recommendati	ons	N/A
			N/A
Any other remarks		arks	

Coal Tip Name	Godre'r-Graig Higher /	Tip Ref Number L044C	
Coal Tip Name	Pentwyn No. 3 Levels	Tip Category	D
Date of Inspection	15/02/2022	Inspection led by	

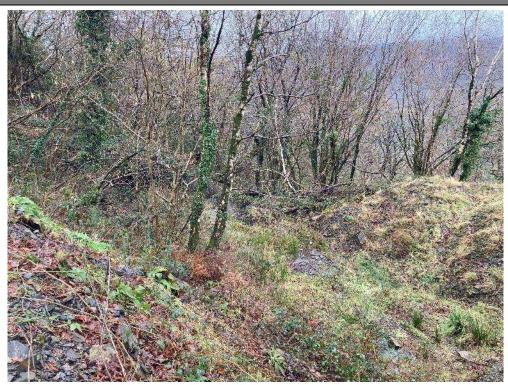


Photo No.	01	Comment	One of several seepages on the tip plateau.
Feature ID	22/G/01	Comment	



Photo No.	02	Comment	Bent / distorted mature tree trunks indicates potential historical creep of the tip.
Feature ID	22/G/02	Comment	

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Photo No.	03	Comment
Feature ID	22/G/03	Comment

The strong flows of an unnamed issue eroding sections of the flank on the eastern boundary.



Photo No.	04	Comment
Feature ID	22/G/04	Comment

Sections of the toe are undercut and scoured where the unnamed issue cascades onto the access track.

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Photo No.	05	Comment
Feature ID	22/G/05	Comment

Minor slip of the toe adjacent to the scoured access track. The photo shows that there is only a thin veneer of colliery spoil along the toe.



Photo No.	06	Comment
Feature ID	22/G/06 & 22/G/07	Comment

A scoured access track with several seepages along the toe which were emanating from the natural ground and colliery spoil.

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Photo No.	07	Comment	A quarry waste rock tip loading the tip plateau.
Feature ID	22/L/01		