

Coal Tip Name	Godre'r-graig Quarry / Cilmaengwyn	Tip Ref Number	L044A
		Ownership Status	Private
Located in	Godre'r-graig, Neath-Port Talbot	Tip Category	D
Led by		Undertaken on behalf of	Welsh Government
Date	08/11/2023	Date of last Detailed Inspection	24/07/2023
Weather	Overcast	Damp	Calm
Comments on access and any limitations	<p>Access to the site was gained via an access path situated just off the Pentwyn Farm access track. The access path extends up the hillside in a north-easterly direction, passing through Cwar Pentwyn Quarry before reaching a narrow, overgrown path which extends up-slope towards the site.</p> <p>It should be noted that this inspection was conducted without the benefit of a detailed site plan; whilst dense vegetation significantly limited accessibility and visual inspection. Therefore, instability within these areas could exist, but was not detectable at the time of the inspection. The densely overgrown nature of the site prevented inspection of the spoil material; it is presumed that the site is comprised of sandstone quarry waste material, however some exposures of colliery spoil material were present downslope (outside the provided site boundary), adjacent to the access path.</p>		
	Description	Status	
RAG Status: Capital & Maintenance Works	Consider following the guidance and remediation options provided in the ESP geotechnical report.	2	
	Continue to utilise the monitoring equipment across the site.	2	
	Consider conducting vegetation clearance (clear pathways) to enable a more detailed inspection to be undertaken.	3	
General Remarks	<p>This site, located on the upper slopes of Mynydd Allt-y-grug is situated immediately downslope of Godre'r-graig Quarry / Cilmaengwyn. The site comprises of a series of densely vegetated tip lobes, meaning close inspection of the spoil material was prevented. It is presumed that the site is comprised of sandstone quarry waste material, however some exposures of colliery spoil material were present downslope (outside the provided site boundary), adjacent to the access path. Additionally, a series of adits are located within close proximity to the site. A series of geotechnical assessments have been carried out by ESP, regarding the stability of the site; from which the following statement was included: 'Our previous assessment suggested that the Quarry Spoil Tip was Marginally Stable, i.e., that it was likely to fail at some time in response to destabilising forced reaching a certain level of activity. The information from the inclinometers suggest that the Quarry Spoil Tip is moving and is Actively Unstable, i.e., destabilising forces are producing continuous or intermittent movements'. A resultant remediation assessment was produced by ESP, outlining a number of potential remediation options.</p>		
	Name	Signature	Date
Author			08/11/2023
Approver			28/11/2023

OBSERVATIONS			
GEOTECHNICAL			
ID	Feature	Location	Comment
23/G/01	Other	N/A	Previous investigation conducted by ESP suggesting that: monitoring has revealed a variable head of water within the tip; the Quarry Spoil Tip may be, or has become, actively unstable; downward continuous and/or intermittent movements have been recorded via inclinometers.
23/G/02	Other	N/A	Previously recorded (by ESP) issues/springs above and below the tip.
Recommendations			Consider following the guidance and remediation options provided in the ESP geotechnical report.
DRAINAGE			
ID	Feature	Location	Comment
N/A			
Recommendations			
ENGINEERING INFRASTRUCTURE			
ID	Feature	Location	Comment
N/A			
Recommendations			
INSTRUMENTATION & MONITORING			
ID	Feature	Location	Comment
23/IM/01	Piezometers & Inclinometers	E – 275048 N - 206996	Series of piezometer boreholes and monitoring wells, situated on the site access track (outside the provided site boundary). Plastic casing associated with a piezometer appears to have been discarded next to a path which ascends towards the tip. Inclinometers are recorded as being installed within some of the boreholes.
Recommendations			Continue to utilise the monitoring equipment across the site.
LAND USE			
ID	Feature	Location	Comment
23/L/01	Vegetation Cover	E – 275025 N - 207030	The surfaces of the tip are densely vegetated with grass, bracken and gorse.
23/L/02	Signage	E – 274780 N - 206748	'Private Property Keep Out' signage, situated at the site access track, located off the main access road to Pentwyn Farm.
Recommendations			Consider conducting vegetation clearance (clear pathways) to enable a more detailed inspection to be undertaken.
CONTAMINATION / GEO-ENVIRONMENTAL			
ID	Feature	Location	Comment
N/A			
Recommendations			
OTHER			
ID	Feature	Location	Comment
N/A			

Recommendations	
Any other remarks	

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Photo No.	1	Comment	Piezometer borehole located on the site access track, downslope (outside the provided site boundary).
Feature ID	23/IM/01		



Photo No.	2	Comment	Monitoring well located on the site access track, downslope (outside the provided site boundary).
Feature ID	23/IM/01		

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Photo No.	3	Comment	Piezometer located downslope (outside the provided site boundary). Recent vegetation clearance has been undertaken to provide access.
Feature ID	23/IM/01		



Photo No.	4	Comment	Minor surface erosion exposing bare spoil material along a narrow, overgrown access path; of which extends up-slope off the main site access path, towards the site. Plastic casing associated with a piezometer appears to have been discarded next to the path.
Feature ID	23/IM/01		

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Photo No.	5	Comment	View looking south-west across the very densely vegetated lobes of tip material. Image conveys associated accessibility issues.
Feature ID	23/L/01		



Photo No.	6	Comment	View looking towards an outcrop of bedrock at the rear of the tip; likely the quarry high wall.
Feature ID	23/L/01		