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|--|---|---------------------------|---------------------|--------------------------------|---------------|
| Coal Tip Name | Godre'r-graig Quarry / Cilmaengwyn | | UID | T37552 | |
| Located in | Godre'r Graig, Neath-Port Talbot | | Tip Category | D | |
| Inspection Led by | | Date of Inspection | 12/02/2025 | Date of last Inspection | 09/09/2024 |
| Weather | Overcast | | Damp | | Breeze |
| Comments on access and any limitations | 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. 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 largely prevented/limited 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. | | | | |
| | 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 | 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 forces 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. | | | | |
| | Name | | Signature | | Date |
| Author | | | | | 12/02/2025 |
| Approver | | | | | 12/3/2025 |

| OBSERVATIONS | | | | |
|---|-----------------------------|--------------------------|---|--|
| GEOTECHNICAL | | | | |
| ID | Feature | Location | Comment | Change to Condition (New, Worse, None or N/A) |
| 25/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. | N/A |
| 25/G/02 | Other | N/A | Previously recorded (by ESP) issues/springs above and below the tip. | N/A |
| Recommendations | | | - Consider following the guidance and remediation options provided in the ESP geotechnical report. | |
| DRAINAGE | | | | |
| ID | Feature | Location | Comment | Change to Condition (New, Worse, None or N/A) |
| N/A | | | | |
| Recommendations | | | | |
| ENGINEERING INFRASTRUCTURE | | | | |
| ID | Feature | Location | Comment | Change to Condition (New, Worse, None or N/A) |
| N/A | | | | |
| Recommendations | | | | |
| INSTRUMENTATION & MONITORING | | | | |
| ID | Feature | Location | Comment | Change to Condition (New, Worse, None or N/A) |
| 25/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. | None |
| Recommendations | | | - Continue to utilise the monitoring equipment across the site. | |

LAND USE

| ID | Feature | Location | Comment | Change to Condition (New, Worse, None or N/A) |
|---------|------------------|--------------------------|---|--|
| 25/L/01 | Vegetation Cover | E – 275025 N - 207030 | The surfaces of the tip are densely vegetated with grass, bracken and gorse. | None |
| 25/L/02 | Signage | E – 274780 N - 206748 | 'Private Property Keep Out' signage situated on the access track which leads to Pentwyn Farm. | None |

Recommendations

- Consider conducting vegetation clearance (clear pathways) to enable a more detailed inspection to be undertaken.

CONTAMINATION / GEO-ENVIRONMENTAL

| ID | Feature | Location | Comment | Change to Condition (New, Worse, None or N/A) |
|-----|---------|----------|---------|--|
| N/A | | | | |

Recommendations**OTHER**

| ID | Feature | Location | Comment | Change to Condition (New, Worse, None or N/A) |
|-----|---------|----------|---------|--|
| N/A | | | | |

Recommendations**Any other remarks**

| | | | |
|----------------------|------------------------------------|-------------------|--------|
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| | | Tip Category | D |
| Date of Inspection | 12/02/2025 | Inspection led by | |



| | | | |
|-------------------|----------|----------------|---|
| Photo No. | 1 | Comment | Piezometer borehole located on the site access track, downslope (outside the provided site boundary). |
| Feature ID | 25/IM/01 | | |



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|-------------------|-----|----------------|---|
| Photo No. | 2 | Comment | A small exposure of overburden and sandstone spoil material, adjacent to the site access track. |
| Feature ID | N/A | | |

| | | | |
|----------------------|--|-----|--------|
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| | | | |
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| | | | |
|-------------------|----------|----------------|---|
| Photo No. | 3 | Comment | Monitoring well located on the site access track, downslope (outside the provided site boundary). |
| Feature ID | 25/IM/01 | | |



| | | | |
|-------------------|----------|----------------|---|
| Photo No. | 4 | Comment | View looking towards the 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 | 25/IM/01 | | |