Fferm Solar Larnog

Environmental Statement

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Volume IV, Appendix 6B: LANDMAP Filtering Process

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1 LANDMAP Filtering Process

1.1. Overview

1.1.1. To ensure that the detailed assessment of landscape effects focuses on potentially sensitive LANDMAP Aspect Areas and those most likely to be affected as a consequence of the Proposed Development, a filter approach is applied to existing LANDMAP evidence as outlined in *Using LANDMAP in Landscape and Visual Impact Assessments GN46*[1].

1.1.2. The results of this filtering process are presented below for each of the five aspects. The final column of each table records the results of each stage of the filtering process, and the final row details the outcome of the applied filters and confirms those aspect areas which should be taken through to the detailed assessment of effects presented in **Appendices 6C: LANDMAP Baseline Description and Sensitivity** and **6D: LANDMAP Aspect Areas Assessment** and summarised in **Chapter 6: Landscape and Visual.**

1.2. Geological Landscape

1.2.1. The filtering process relating to the Geological Landscape Aspect is set out in **Table 6B.1**.

Table 6B.1 - Filtering process and record of results: Geological Landscape Aspect Areas

Stage	Description	Record of results (Aspect IDs)
Filter 1	Identify all Geological Landscape aspect areas that overlap fully or partially or are adjacent to the **development site boundary**, these are most likely to undergo change	2 areas identified: • Penarth (VLFGLGL238)- Host; and • Sully (VLFGLGL955) – Host.
Filter 2	Identify Geological Landscape aspect areas from filter 1 that records a special relationship with other aspect areas in the LANDMAP survey question 2. Include any extra aspect areas identified.	0 additional areas identified.
Filter 3	If a Zone of Theoretical Visibility (ZTV) map is available, retain all filtered aspect areas that are visible with the development	2 areas are retained: • Penarth (VLFGLGL238)- Host; and • Sully (VLFGLGL955) – Host.
Filter 4a	Identify and retain filtered aspect areas from filters 1 to 3 that are evaluated as **outstanding** or **high** in **Geological Lan**	2 areas retained: • Penarth (VLFGLGL238)- Host - Moderate; and

[1] Natural Resources Wales. (2023). Using LANDMAP in Landscape and Visual Impact Assessments GN46. Available online at: https://naturalresourceswales.gov.uk/guidance-and-advice/business-sectors/planning-and-development/evidence-to-inform-development-planning/using-landmap-in-landscape-and-visual-impact-assessments-gn46/?lang=en [Accessed September 2026]

Stage	Description	Record of results (Aspect IDs)
	dscape survey question 33, retaining all aspect areas in which the development is located.	• Sully (VLFGLGL955) - Host - *Moderate*
Filter 4b	Identify and retain filtered aspect areas from filters 1 to 3 that are evaluated as **outstanding** or **high** in **rarity/uniqueness survey question 31**, retaining all aspect areas in which the development is located.	2 areas retained: • Penarth (VLFGLGL238)- Host – *Moderate; and* • Sully (VLFGLGL955) - Host – *Moderate.*
Outcome of all filters - 2 GLAAs are retained: • Penarth (VLFGLGL238)- Host; and • Sully (VLFGLGL955) - Host.		

1.3. Landscape Habitats

1.3.1. The filtering process relating to the Landscape Habitats Aspect is set out in **Table 6B.2**

Table 6B.2 - Filtering process and record of results: Landscape Habitats Aspect Areas

Stage	Description	Record of results (Aspect IDs)
Filter 1	Identify all Landscape Habitats aspect areas that overlap fully or partially or are adjacent to the **development site boundary**, these are most likely to undergo change	2 areas identified: • Swanbridge (VLFGLLH376) – Host; and • Cog (VLFGLLH135).
Filter 2	If a Zone of Theoretical Visibility (ZTV) map is available, retain all filtered aspect areas that are visible with the development	2 areas retained: • Swanbridge (VLFGLLH376) – Host; and • Cog (VLFGLLH135).
Filter 3a	Identify and retain filtered aspect areas from filters 1 & 2 that are evaluated as **outstanding or high** in Landscape Habitats survey question 45, retaining all aspect areas in which the development is located.	1 area retained: • Swanbridge (VLFGLLH376) – Host – *Moderate.* 1 area removed: • Cog (VLFGLLH135) – *Low.*
Filter 3b	Identify and retain filtered aspect areas from filters 1 & 2 that are evaluated as **outstanding or high** in connectivity/cohesion survey question 42, retaining all aspect areas in which the development is located.	1 areas continue as retained: Swanbridge (VLFGLLH376) – Host - *Moderate* • 1 area removed; and Cog (VLFGLLH135) - *Low.*
Outcome of all filters - 1 LHAAs is retained: • Swanbridge (VLFGLLH376) – Host		

1.4. Visual & Sensory

1.4.1. The filtering process relating to the Visual & Sensory Aspect is set out in **Table 6B.3**. VSAAs are illustrated in **Figure 6.3: LANDMAP Aspect Areas - Visual and Sensory** of the ES. Note that in accordance with Using LANDMAP in Landscape and Visual Impact Assessments GN46 Filters 3a, 3b and 3c are applied to all Aspect Areas identified in Filter 2 in turn, they are not applied consecutively. Therefore, while there may be different results of identified Aspect Areas in each of Filter 3a, 3b and 3c it is the sum of all Aspect Areas across Filters 3a, 3b and 3c that are taken into Filter 4.

Table 6B.3 - Filtering process and record of results: Visual & Sensory Aspect Areas

Stage	Description	Record of results
Filter 1	Identify all LANDMAP Visual & Sensory aspect areas within the 1km study area.	10 areas identified: • Lavernock hinterland (VLFGLVS787) – host; • Sully Ridge (VLFGLVS637); • Cosmeston Country Park and Golf Course (VLFGLVS532); • Penarth (VLFGLVS152); • Penarth to Swanbridge cliffs (VLFGLVS308); • Swanbridge to Barry Coast (VLFGLVS444); • Glamorgan Coast Intertidal (VLFGLVS920); • Sully Island (VLFGLVS903); • Bristol Channel (VLFGLVS765); and • Barry (VLFGLVS219).
Filter 2	If a Zone of Theoretical Visibility (ZTV) map is available, retain all filtered aspect areas that are visible with the development up to the limit of the study area.	8 areas identified: • Lavernock hinterland (VLFGLVS787)-Host; • Sully Ridge (VLFGLVS637); • Cosmeston Country Park and Golf Course (VLFGLVS532); • Penarth (VLFGLVS152); • Penarth to Swanbridge cliffs (VLFGLVS308); • Glamorgan Coast Intertidal (VLFGLVS920); • Sully Island (VLFGLVS903); and • Bristol Channel (VLFGLVS765); 2 areas removed: • Swanbridge to Barry Coast (VLFGLVS444); and • Barry (VLFGLVS219).

Stage	Description	Record of results
Filter 3a	Identify and retain filtered aspect areas that are evaluated as **outstanding or high** in Visual & Sensory overall evaluation (survey question 50), retaining all aspect areas in which the development is located.	5 areas retained: • Lavernock hinterland (VLFGLVS787) - Host – Moderate; • Penarth to Swanbridge cliffs (VLFGLVS308) - *High;* • Glamorgan Coast Intertidal (VLFGLVS920) - *Outstanding; and* • Sully Island (VLFGLVS903) – *Outstanding;* and • Bristol Channel (VLFGLVS765) – *Outstanding.* 3 areas removed: • Sully Ridge (VLFGLVS637) – *Moderate;* • Cosmeston Country Park and Golf Course (VLFGLVS532) – *Moderate;* and • Penarth (VLFGLVS152) – *Moderate.*
Filter 3b	Identify and retain filtered aspect areas that are evaluated as **outstanding or high** in Visual & Sensory scenic quality (survey question 46), retaining all aspect areas in which the development is located.	1 additional retained: • Sully Ridge (VLFGLVS637) – *High.* 2 areas removed: • Cosmeston Country Park and Golf Course (VLFGLVS532) – *Moderate;* and • Penarth (VLFGLVS152) – *Moderate.* In all 6 areas retained: • Lavernock hinterland (VLFGLVS787) - Host – Moderate; • Penarth to Swanbridge cliffs (VLFGLVS308) - *High;* • Glamorgan Coast Intertidal (VLFGLVS920) - *Outstanding; and* • Sully Island (VLFGLVS903) – *Outstanding;* • Bristol Channel (VLFGLVS765) – *Outstanding;* and • Sully Ridge (VLFGLVS637) – High.
Filter 3c	Identify and retain filtered aspect areas that are evaluated as **moderate** in Visual & Sensory overall evaluation (survey question 50) and evaluated as **outstanding or high** in character (survey question 48), retaining all aspect areas in which the development is located.	1 additional retained: • Penarth (VLFGLVS152) – *High.* 2 areas removed: • Sully Ridge (VLFGLVS637) – *Moderate;* and • Cosmeston Country Park and Golf Course (VLFGLVS532) - *Moderate.* In all 6 areas retained:

Stage	Description	Record of results
		• Lavernock hinterland (VLFGLVS787) - Host – Moderate; • Penarth to Swanbridge cliffs (VLFGLVS308) - *High;* • Glamorgan Coast Intertidal (VLFGLVS920) - *Outstanding; and* • Sully Island (VLFGLVS903) – *Outstanding;* • Bristol Channel (VLFGLVS765) – *Outstanding;* and • Penarth (VLFGLVS152) - *High.*
Filter 4	WSP assigned filter. VSAAs within LVIA study area that have more than 20% ZTV coverage within their area. (filter applied to the sum of all Aspect Areas identified across Filters 3a, 3b and 3c)	3 areas retained: • Lavernock hinterland (VLFGLVS787)- Host; • Sully Ridge (VLFGLVS637); and • Sully Island (VLFGLVS903). 4 areas removed: • Penarth (VLFGLVS152); • Penarth to Swanbridge cliffs (VLFGLVS308); • Glamorgan Coast Intertidal (VLFGLVS920); and • Bristol Channel (VLFGLVS765).
Outcome of all filters - 3 VSAAs are retained: • **Lavernock Hinterland (VLFGLVS787) – Host;** • **Sully Ridge (VLFGLVS637); and** • **Sully Island (VLFGLVS903).**		

1.5. Historic Landscape

1.5.1. The filtering process relating to the Historic Landscape Aspect is set out in **Table 6B.4**.

Table 6B.4 - Filtering process and record of results: Historic Landscape Aspect Areas

Stage	Description	Record of results
Filter 1	Identify all Historic Landscape LANDMAP aspect areas within the 1 km study area.	5 areas identified: • Lavernock (VLFGLHL010) – Host; • Cosmeston Country Park (VLFGLHL006); • Penarth and Dinas Powys Urban (VLFGLHL013); • Vale of Glamorgan coastal littoral (VLFGLHL001); and • Sully (VLFGLHL007).
Filter 2	If a Zone of Theoretical Visibility (ZTV) map is available, retain all filtered aspect areas that	4 areas retained:

Stage	Description	Record of results
	are visible with the development up to the limit of the study area.	• Lavernock (VLFGLHL010) – Host; • Cosmeston Country Park (VLFGLHL006); • Penarth and Dinas Powys Urban (VLFGLHL013); and • Vale of Glamorgan coastal littoral (VLFGLHL001). 1 areas removed: • Sully (VLFGLHL007).
Filter 3	Identify and retain filtered aspect areas that are evaluated as **Outstanding or High** in Historic Landscape overall evaluation (survey question 40) retaining all aspect areas in which the development is located.	3 areas retained: • Lavernock (VLFGLHL010) – Host – Moderate; • Cosmeston Country Park (VLFGLHL006) – *High; and* • Vale of Glamorgan coastal littoral (VLFGLHL001) – *Outstanding.* 1 areas removed: • Penarth and Dinas Powys Urban (VLFGLHL013) – *Moderate.*
Filter 4	WSP assigned filter. HLAAs within LVIA study area that have more than 20% ZTV coverage within their area.	2 areas retained: • Lavernock (VLFGLHL010) – Host; and • Cosmeston Country Park (VLFGLHL006). 1 areas removed: • Vale of Glamorgan coastal littoral (VLFGLHL001).
Outcome of all filters - 2 HLAAs are retained: • **Lavernock (VLFGLHL010) – Host; and** • **Cosmeston Country Park (VLFGLHL006).**		

1.6. Cultural Landscape Services

1.6.1. The filtering process relating to the Cultural Landscape Services Aspect is set out in **Table 6B.5**.

Table 6B.5 - Filtering process and record of results: Cultural Landscape Services Aspect Areas

Stage	Description	Record of results (Aspect IDs and name)
Filter 1	Identify all Cultural Landscape Services aspect areas that overlap fully or partially or are adjacent to the **development site**	2 areas identified: • Lavernock hinterland (VLFGLCLS050) – Host; and

Stage	Description	Record of results (Aspect IDs and name)
	boundary, these are most likely to undergo change.	• Sully Ridge (VLFGLCLS039).
Filter 2	If a Zone of Theoretical Visibility (ZTV) map is available, retain all filtered aspect areas identified from filter 1 or 2.	All areas retained
Filter 3	Cultural Landscape Services does not include landscape evaluation information, retain all aspect areas identified from filter 1 or 2.	All areas retained
Filter 4	WSP assigned filter. CLSAAs within LVIA study area that have more than 20% ZTV coverage within their area.	All areas retained
Outcome of all filters - 2 CLSAAs retained: • **Lavernock hinterland (VLFGLCLS050) – Host; and** • **Sully Ridge (VLFGLCLS039).**		