

Morecambe Offshore Windfarm: Generation Assets Environmental Statement

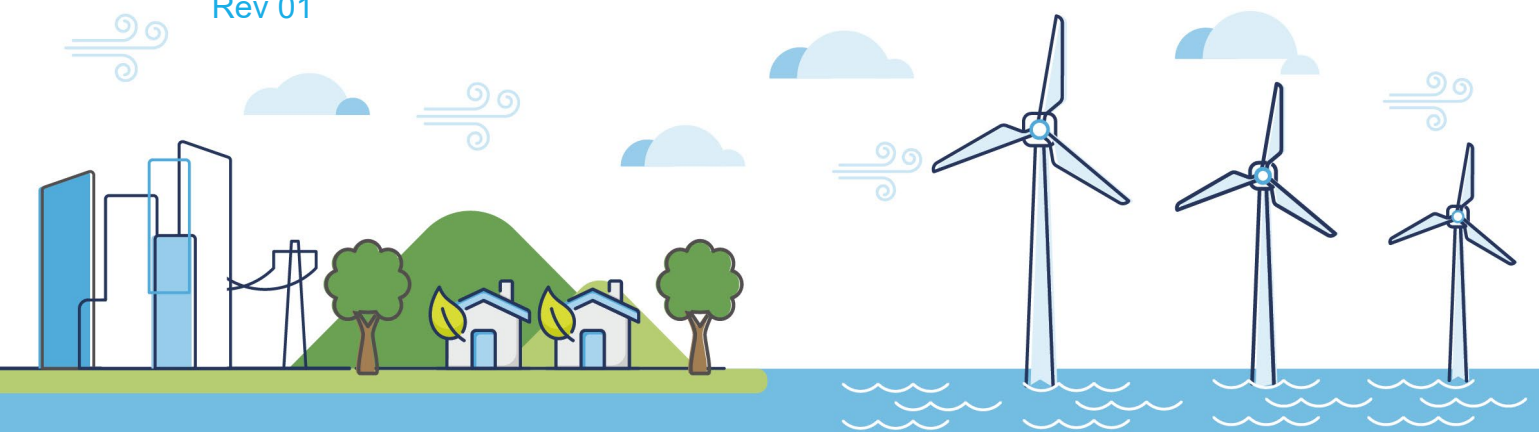
Volume 5

Chapter 18 SLVIA Figures (Part 2 of 34)

PINS Document Reference: 5.3.18.2

APFP Regulation: 5(2)(a)

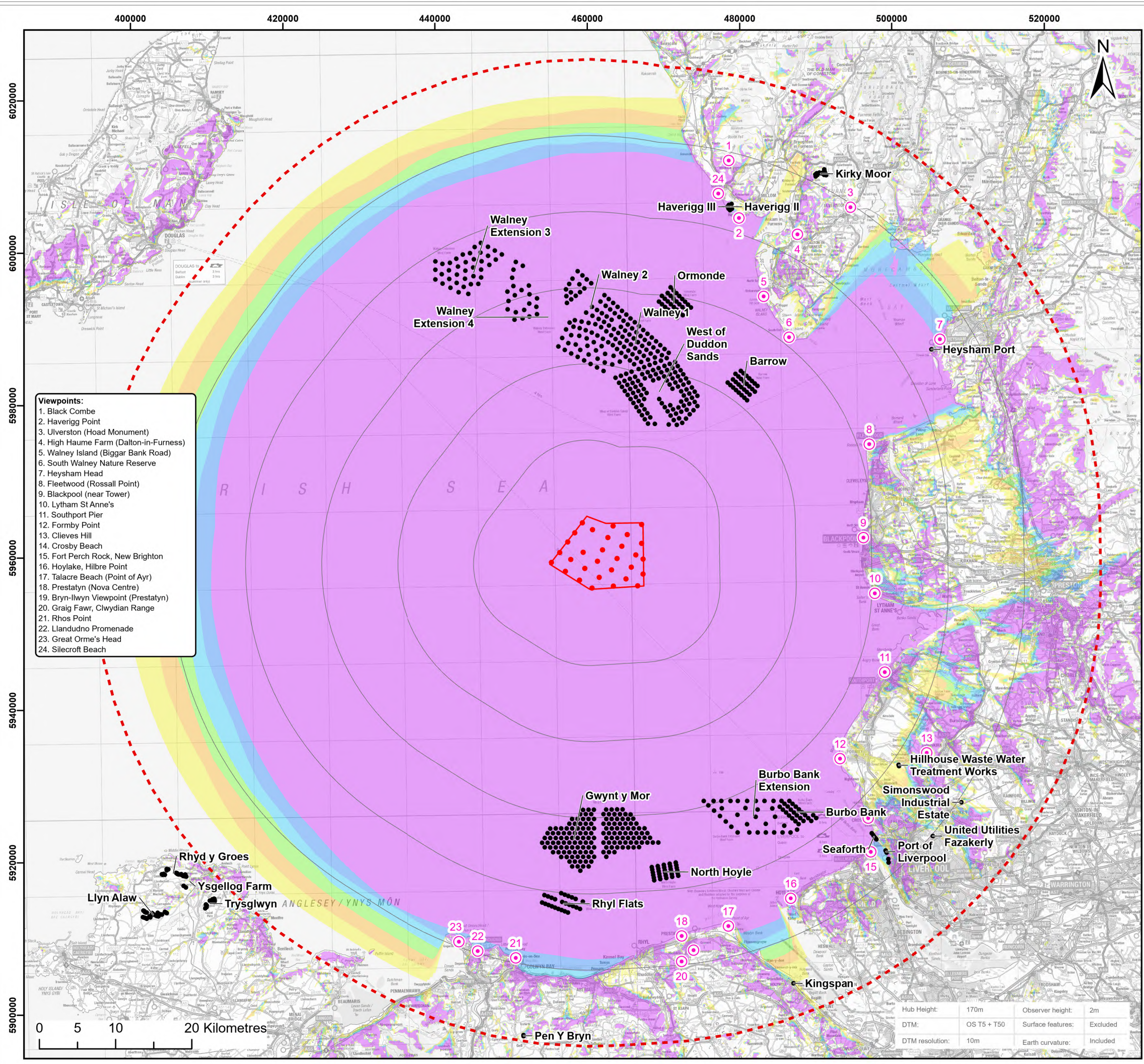
Rev 01



Document History

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01	May 2024	Approved for Use	Royal HaskoningDHV	Morecambe Offshore Windfarm Ltd	Morecambe Offshore Windfarm Ltd	n/a



- Viewpoints:**
1. Black Combe
 2. Haverigg Point
 3. Ulverston (Hoad Monument)
 4. High Haume Farm (Dalton-in-Furness)
 5. Walney Island (Biggar Bank Road)
 6. South Walney Nature Reserve
 7. Heysham Head
 8. Fleetwood (Rossall Point)
 9. Blackpool (near Tower)
 10. Lytham St Anne's
 11. Southport Pier
 12. Formby Point
 13. Clieves Hill
 14. Crosby Beach
 15. Fort Perch Rock, New Brighton
 16. Hoylake, Hilbre Point
 17. Talacre Beach (Point of Ayr)
 18. Prestatyn (Nova Centre)
 19. Bryn-Ilwyn Viewpoint (Prestatyn)
 20. Graig Fawr, Clwydian Range
 21. Rhos Point
 22. Llandudno Promenade
 23. Great Orme's Head
 24. Silecroft Beach

Legend:

- Farm - Assumed WTG locations (30 x BT 310m(HAT))
- ⊙ Viewpoints
- Operational WTG
- Morecambe Offshore Windfarm Site
- 10km Radii
- ⋯ 60km Study Area

No. Hubs Theoretically Visible

- 1 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- 21 - 25
- 26 - 30

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Report:
Morecambe Offshore Windfarm: Generation Assets
Environmental Statement

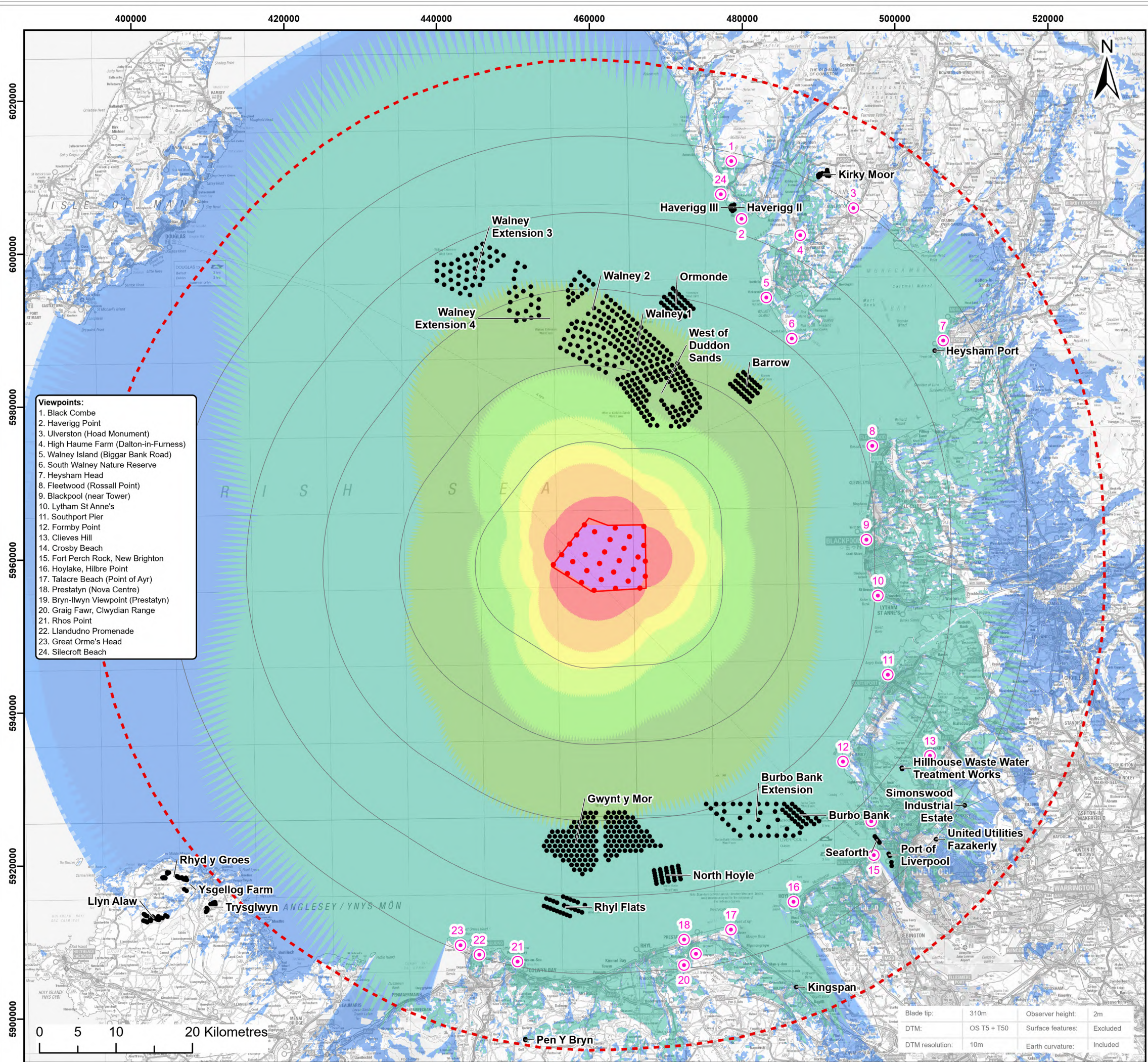
Title:
Hub Height Zone of Theoretical Visibility

Figure: 18.7	Drawing No:	211609			
Revision:	Date:	Drawn:	Checked:	Size:	Scale:
P02	18/09/2023	RA	SM	A3	1:500,000

Co-ordinate system: WGS 1984 UTM Zone 30N

Hub Height:	170m	Observer height:	2m
DTM:	OS T5 + T50	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included





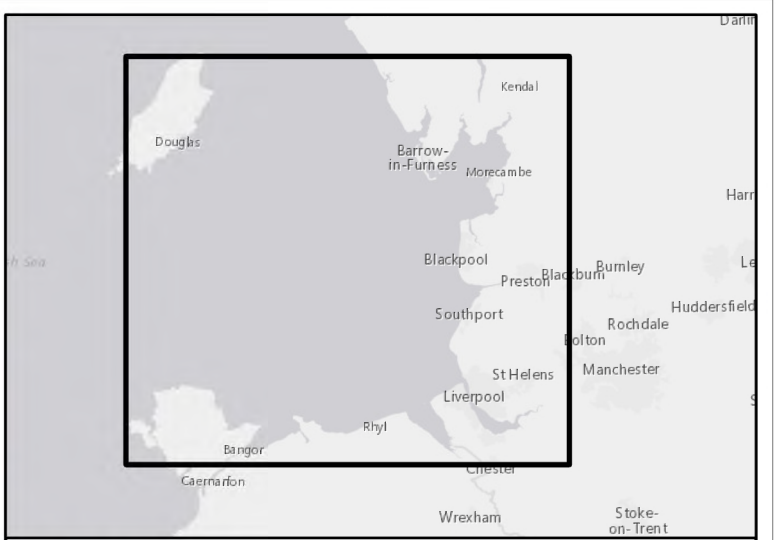
- Viewpoints:**
1. Black Combe
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 23. Great Orme's Head
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Legend:

- Morecambe Offshore Wind Farm - Assumed WTG locations (30 x BT 310m(HAT))
- Viewpoints
- Operational WTG
- Morecambe Offshore Windfarm Site
- 10km Radii
- 60km Study Area

Horizontal Angle ZTV Angle (degrees)

- 1 - 0
- 1
- 1 - 5
- 5 - 10
- 10 - 20
- 20 - 30
- 30 - 40
- 40 - 50
- 50 - 60
- 60 - 90
- 90 - 180
- 180 - 360



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Report:
Morecambe Offshore Windfarm: Generation Assets
Environmental Statement

Title:
Horizontal Angle Zone of Theoretical Visibility

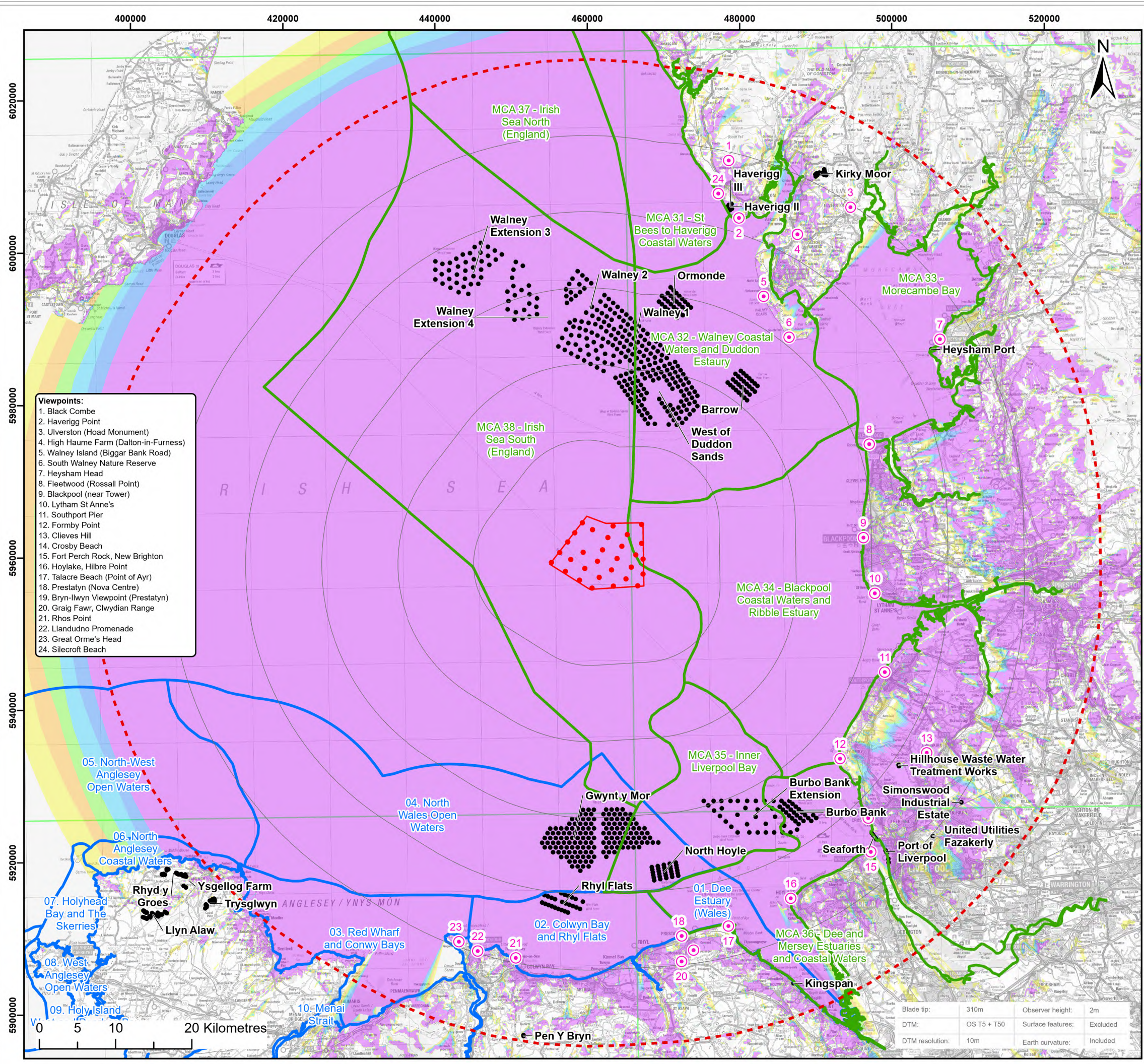
Figure: 18,8 Drawing No: 211609

Revision:	Date:	Drawn:	Checked:	Size:	Scale:
P02	18/09/2023	RA	SM	A3	1:500,000

Co-ordinate system: WGS 1984 UTM Zone 30N

Blade tip:	310m	Observer height:	2m
DTM:	OS T5 + T50	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included





- Viewpoints:**
1. Black Combe
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 24. Silecroft Beach

Legend:

- Morecambe Offshore Wind Farm - Assumed WTG locations (30 x BT 310m(HAT))
 - Viewpoints
 - Operational WTG
 - ▭ Morecambe Offshore Windfarm Site
 - 10km Radii
 - ⋯ 60km Study Area
 - ▭ North West Marine Character Areas
 - ▭ Wales Marine Character Areas
- No. Blade Tips Theoretically Visible**
- 1 - 5
 - 6 - 10
 - 11 - 15
 - 16 - 20
 - 21 - 25
 - 26 - 30

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Report:
Morecambe Offshore Windfarm: Generation Assets Environmental Statement

Title:
Blade Tip Zone of Theoretical Visibility with Seascape Character

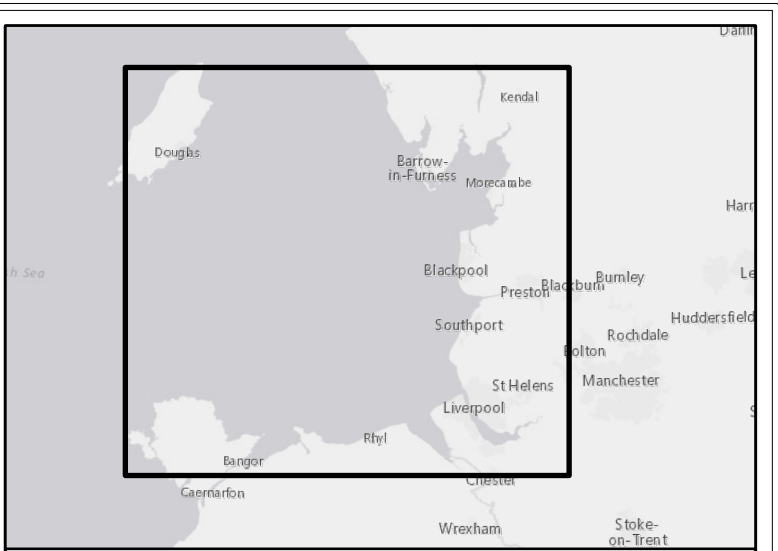
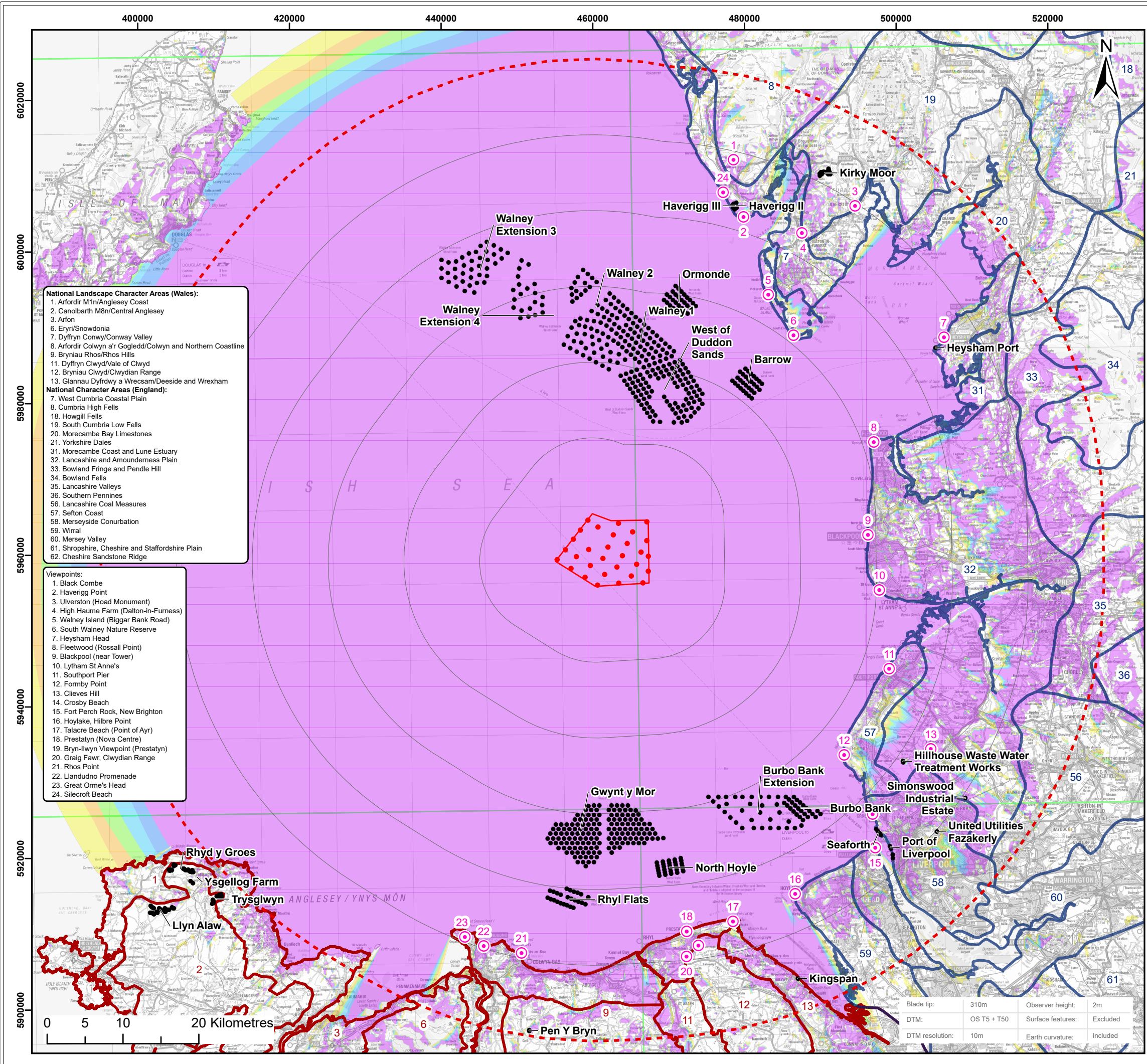
Figure: 18,9 Drawing No: 211609

Revision:	Date:	Drawn:	Checked:	Size:	Scale:
P02	18/09/2023	RA	SM	A3	1:500,000

Co-ordinate system: WGS 1984 UTM Zone 30N

Blade tip:	310m	Observer height:	2m
DTM:	OS T5 + T50	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included





Legend:

- Morecambe Offshore Wind Farm - Assumed WTG locations (30 x BT 310m(HAT))
- Viewpoints
- Operational WTG
- Morecambe Offshore Windfarm Site
- 10km Radii
- 60km Study Area
- National Character Areas (England)
- National Landscape Character Areas (Wales)
- No. Blade Tips Theoretically Visible

1 - 5	26 - 30
6 - 10	
11 - 15	
16 - 20	
21 - 25	

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Report:
 Morecambe Offshore Windfarm: Generation Assets Environmental Statement

Title:
 Blade Tip Zone of Theoretical Visibility National Landscape Character

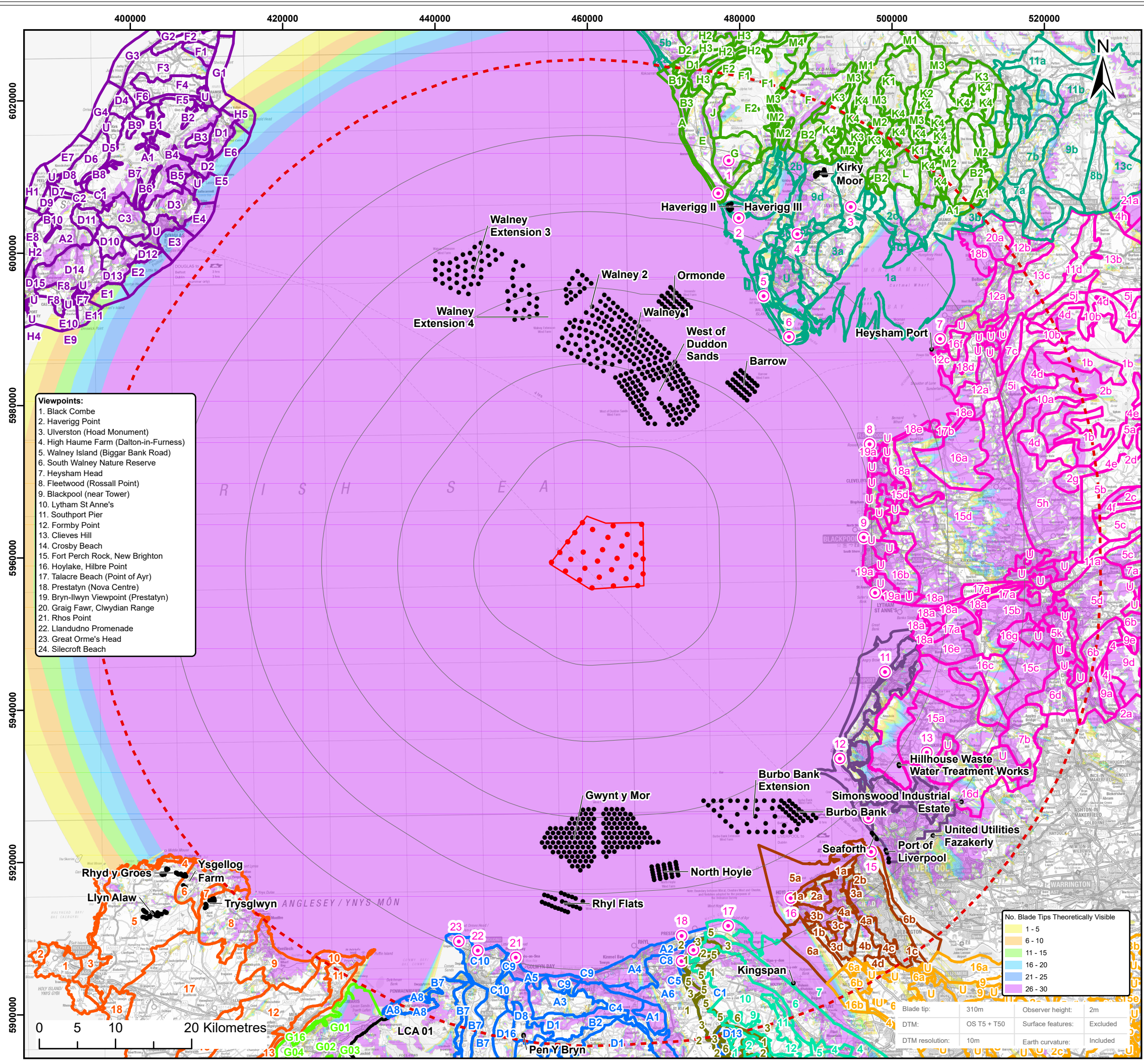
Figure: 18.10 Drawing No: 211609

Revision:	Date:	Drawn:	Checked:	Size:	Scale:
P02	18/09/2023	RA	SM	A3	1:500,000

Co-ordinate system: WGS 1984 UTM Zone 30N



Blade tip:	310m	Observer height:	2m
DTM:	OS T5 + T50	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included



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 24. Silecroft Beach



Legend:

- Morecambe Offshore Wind Farm - Assumed WTG locations (30 x BT 310m(HAT))
- Viewpoints
- Operational WTG
- Morecambe Offshore Windfarm Site
- 10km Radii
- 60km Study Area
- Isle of Man LCA (2008)
- Lake District National Park LCT (2021)
- Cumbria LCT (2011)
- Lancashire LCA (2000)
- Sefton LCA 2003
- Cheshire and West Chester LCA (2016)
- Wirral LCA 2019
- Flintshire LCT (1996)
- Clwydian Range and Dee Valley AONB LCT
- Conwy LCT
- Eryri National Park LCA
- Gwynedd LCT
- Isle of Anglesey LCA (2011)

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Report:
 Morecambe Offshore Windfarm: Generation Assets Environmental Statement

Title:
 Blade Tip Zone of Theoretical Visibility County Landscape Character

Figure: 18.11a Drawing No: 211609

Revision:	Date:	Drawn:	Checked:	Size:	Scale:
P02	17/08/2023	RA	SM	A3	1:500,000

Co-ordinate system: WGS 1984 UTM Zone 30N





No. Blade Tips Theoretically Visible

1 - 5
6 - 10
11 - 15
16 - 20
21 - 25
26 - 30



Blade tip: 310m Observer height: 2m
 DTM: OS T5 + T50 Surface features: Excluded
 DTM resolution: 10m Earth curvature: Included



Legend:

-  Eryri National Park LCA
- 1. Northern Uplands
-  Conwy LCT
- A1. Eastern Lowlands (Cefn Meiriadog Vale Slopes)
- A2. Coastal Slopes (Gronant, Prestatyn Coastal Slopes)
- A3. Lowland Hills
- A4. Coastal & Estuarine Flats (Prestatyn to Abergele)
- A5. Coastal & Estuarine Flats (Colwyn Bay)
- A6. Vale Farmlands (Vale of Clwyd)
- A8. Coastal Landscape Unit (Penmaenmawr to Llanfairechan)
- B2. Deep Valleys (Aled and Elwy)
- B4. Hill Slopes (Clwydian Range Hill Slopes)
- B7. Conwy Valley
- C1. Trelawnyd Plateau
- C10. Great Orme and Creuddyn Peninsular
- C4. Limestone Farmlands (Abergele to Denbigh Coastal/ Vale Hills)
- C5. Limestone Farmlands (Northern Clwydian Range)
- C8. Limestone Escarpment and Hills (Prestatyn - Dyserth Hillside)
- C9. Limestone Escarpment and Hills
- D1. Aled Hiraethog Hills (West)
- D13. Moorland Ridge (Clwydian Ridgeline)
- D16. Marginal Upland (East Conwy Valley)
- D8. Upland Plateau
-  Cumbria LCT 2011
- 00: Urban
- 11a: Upland Fringe - Foothills
- 11b: Upland Fringe - Low Fells
- 13c: Fells and Scarps - Fells

- 1a: Bay and Estuary - Intertidal Flats
- 1b: Bay and Estuary - Coastal Marsh
- 2a: Coastal Margins - Dunes and Beaches
- 2b: Coastal Margins - Coastal Mosses
- 2c: Coastal Margins - Coastal Plain
- 2d: Coastal Margins - Coastal Urban Fringe
- 3a: Coastal Limestone - Open Farmland and Pavements
- 3b: Coastal Limestone - Wooded Hills and Pavements
- 3c: Coastal Limestone - Disturbed Areas
- 5b: Lowland - Low Farmland
- 5c: Lowland - Rolling Lowland
- 7a: Drumlins - Low Drumlins
- 7b: Drumlins - Drumlin Field
- 8b: Main Valleys - Broad Valleys
- 8c: Main Valleys - Valley Corridors
- 9b: Intermediate Moorland and Plateau - Rolling Farmland and Ridges
- 9d: Intermediate Moorland and Plateau - Ridges
-  Lancashire LCA 2000
- 10a. Wyre Valley
- 10b. North Bowland Valleys
- 11a. Lower Ribble Valley
- 11d. Lune Valley
- 12a. Camforth-Galgate- Cockerham
- 12b. Warton-Borwick
- 12c. Haysham-Overton
- 13b. Bentham-Clapham
- 13c. Docker- Kellet-Lancaster
- 15a. Ormskirk-Lathom- Rufford
- 15b. Longton-Bretherton
- 15c. Croston-Mawdesley
- 15d. The Fylde

- 16a. North Fylde Mosses
- 16b. South Fylde Mosses
- 16c. Martin Mere and South West Mosses
- 16d. Skelmersdale Mosses
- 16e. Tarleton Mosses
- 16f. Haysham Moss
- 16g. Hoole and Farington Mosses
- 17a. Clifton and Hutton Marsh
- 17b. Cockerham Coast
- 18a. Ribble Marshes
- 18b. Hest Bank-Silverdale Marshes
- 18d. Lune Marshes
- 18e. Pilling and Cockerham Marshes
- 19a. Fylde Coast Dunes
- 1b. High Bowland Plateaux
- 20a. Arnsdale and Silverdale
- 21a. Leck Fell
- 2a. West Pennine Moors
- 2b. Central Bowland Fells
- 2c. Longridge Fell
- 2d. Waddington Fell
- 2g. Beacon Fell
- 4d. Bowland Gritstone Fringes
- 4d. Bowland Gritstone Fringes
- 4e. Bowland Limestone Fringes
- 4f. Longridge Fell Fringes
- 4h. Leck Fell Fringe
- 4j. West Pennine Fringes
- 5a. Upper Hodder Valley
- 5b. Lower Hodder and Loud Valley
- 5c. Lower Ribble
- 5d. Bowland Gritstone Fringes
- 5h. Gooshaugh-Whittingham
- 5i. West Bowland Fringes

- 5j. North Bowland Fringes
- 5k. Cuerden-Euxton
- 6b. West Pennine Foothills
- 6d. Adlington-Coppull
- 7a. Mellor Ridge
- 7b. Upholland Ridge
- 7c. Langthwaite Ridge
- 9a. Rivington
- 9d. Belmont
- 9e. Roddlesworth
- U. Urban
-  Sefton LCA 2003
- 0, Urban
- 1, Sandy Foreshore
- 2, Coastal Dunes
- 3, Dune Backlands
- 4, Coastal Marshland
- 5, Carr Farmlands
- 6, Estate Farmlands
- 7, Settled Farmlands
-  Lake District National Park LCT 2021
- A. Estuary and Marsh
- A1. Intertidal Flats
- B1. Dunes and Beaches
- B2. Coastal Mosses
- B3. Coastal Plain
- D1. Low Farmland
- D2. Rolling Lowland
- E. Coastal Sandstone
- F. Rugged/Craggy Volcanic High Fell
- F1. Upland Tarns
- F2. Upland Forests
- G. Rugged Angular Slate High Fell
- H2. Upland Valley with River Floodplains
- H3. Enclosed Valley Side
- K1. Forest
- K2. Parkland
- K3. Farmland
- K4. Moorland Ridge
- M1. Valley Floor with Lake

- M2. Valley Floor with River Floodplain
- M3. Enclosed Valley Side
- M4. Open Valley Side
-  Wirral LCA 2019
- 1a. North Wirral Coastal Edge
- 1b. Dee Estuarine Edge
- 1c. Eastham Estuarine Edge
- 2a. The Birket River Floodplain
- 2b. The Fender River Floodplain
- 3a. Bidston Sandstone Hills
- 3b. Thurstaston and Greasby Sandstone Hills
- 3c. Irby and Pensby Sandstone Hills
- 3d. Heswall Dales Sandstone Hills
- 4a. Landican and Thingwall Lowland Farmland
- 4b. Thornton Hough Lowland Farmland and Estates
- 4c. Clatterbrook and Dibben Valley Lowland
- 4d. Raby Lowland Farmland and Estates
- 5a. North Wirral Foreshore and Coastal Waters
- 6a. Dee Estuary
- 6b. Mersey Estuary
-  Isle Of Man LCA 2008
- A1. Northern Uplands
- A2. Southern Uplands
- B1. Sulby Glen
- B10. Glen Rushen
- B2. Glen Auldyn
- B3. Cornaa Valley
- B4. Laxey Glen
- B5. Glen Roy
- B6. East Baldwin
- B7. West Baldwin
- B8. Glen Helen
- B9. Ballaugh Glen
- C1. Greeba Valley
- C2. St John's

- C3. Union Mills, Glen Vine and Crosby
- D1. Ballajora and Ballaglass
- D10. Braaid
- D11. Foxdale
- D12. Douglas Head
- D13. Santon
- D14. Ballamodha, Earystane and St Mark's
- D2. Laxey
- D3. Conrheny/ Groudle
- D4. Orrisdale and Ballaugh
- D5. Kirk Michael
- D6. Cronk-y-voddy
- D7. Neb
- D8. Peel
- D9. GlenMaye
- E1. Port Grenaugh
- E10. Castletown Bay
- E11. Lagness
- E2. Port Soderick
- E3. Douglas Bay
- E4. Clay Head
- E5. Laxey Bay
- E6. Dhoon Bay and Port Cornaa
- E7. Ballanayre Strand and Peel
- E8. Dalby Point and Niarbl Bay
- E9. Bay Ny Carrickey
- F1. Bride Hills
- F2. The Lhen
- F3. Andreas and Jurby
- F4. Sulby
- F5. Sulby River
- F6. The Curraghs
- F7. Castletown and Ballasalla
- F8. Poylvaaish and Scarlett Peninsula
- G1. Ramsey Bay
- G2. The Ayres
- G3. Jurby Head
- G4. Orrisdale Head
- H1. Peel Hill

- H2. Fleshwick
- H4. Cregneash Head and Meayll Peninsula
- H5. Maughold Head
- U. Urban
-  Isle of Anglesey LCA 2011
- 1. Holyhead Mountain
- 10. Penmon and Puffin Island
- 11. Eastern Menai Strait
- 12. East Central Anglesey
- 13. Western Menai Strait
- 15. Afon Cefni
- 16. Aberffraw
- 17. West Central Anglesey
- 18. Valley Airfield Environs
- 2. Holy Island
- 3. Inland Sea
- 4. North West Coast
- 5. North West Anglesey
- 6. Amlwch and Environs
- 7. Parys Mountain
- 8. Dulas Bay Hinterland
- 9. Red Wharf Bay
-  Gwynedd LCT
- G01. Bangor Coastal Plain
- G02. Penisarwaun Plateau
- G03. Llanberis - Bethesda
- G04. Caernarfon - Coast & Plateau
- G16. Menai Coast
-  Clwydian Range and Dee Valley AONB LCT
- 1. Built environment
- 2. Hills, Lower Plateau & Scarp Slopes
- 3. Lowland areas
- 5. Rolling Lowland
- 6. Upland areas
-  Flintshire LCA 1996
- 1. Moel Llys-y-Coed
- 2. Cilcain Hill Slopes

- 4. Eastern Lowland Plain
- 5. Buckley Lowland Hills
- 6. Dee Coastal Slopes
- 7. Coastal and Estuarine Flats
- 9. Wheeler Valley
- 10. Trelawnyd Plateau
- 11. Halkyn Common
- 12. Pantymwyn Farmlands
-  Cheshire and West Chester LCA 2016
- 13b. Arley West
- 14a. Northwich
- 15b. Mid Weaver Valley
- 15c. Lower Weaver Valley
- 15e. Dane Valley
- 15i. Gowy Valley
- 16a. Stanlow & Ince Banks
- 16b. Dee Estuary
- 1a. Delamere
- 2a. Frodsham
- 2b. Helsby Hill
- 2c. Eddisbury
- 3a. Helsby to Tarporley
- 5a/b/c. Norley, Frodsham to Northwich, Eaton
- 5d. Whitley and Comberbach
- 5e. East Winsford
- 5f. Helsby to Frodsham
- 6a. Darnhall Plain
- 6a. Willaston
- 6a/c/d/e. Neston to Saughall, Capenhurst Plateau
- 6b. Neston
- 8a. Aston
- 9a. Dunham to Tarvin Plain
- 9d. Saughall to Waverton Plain
- U. Urban

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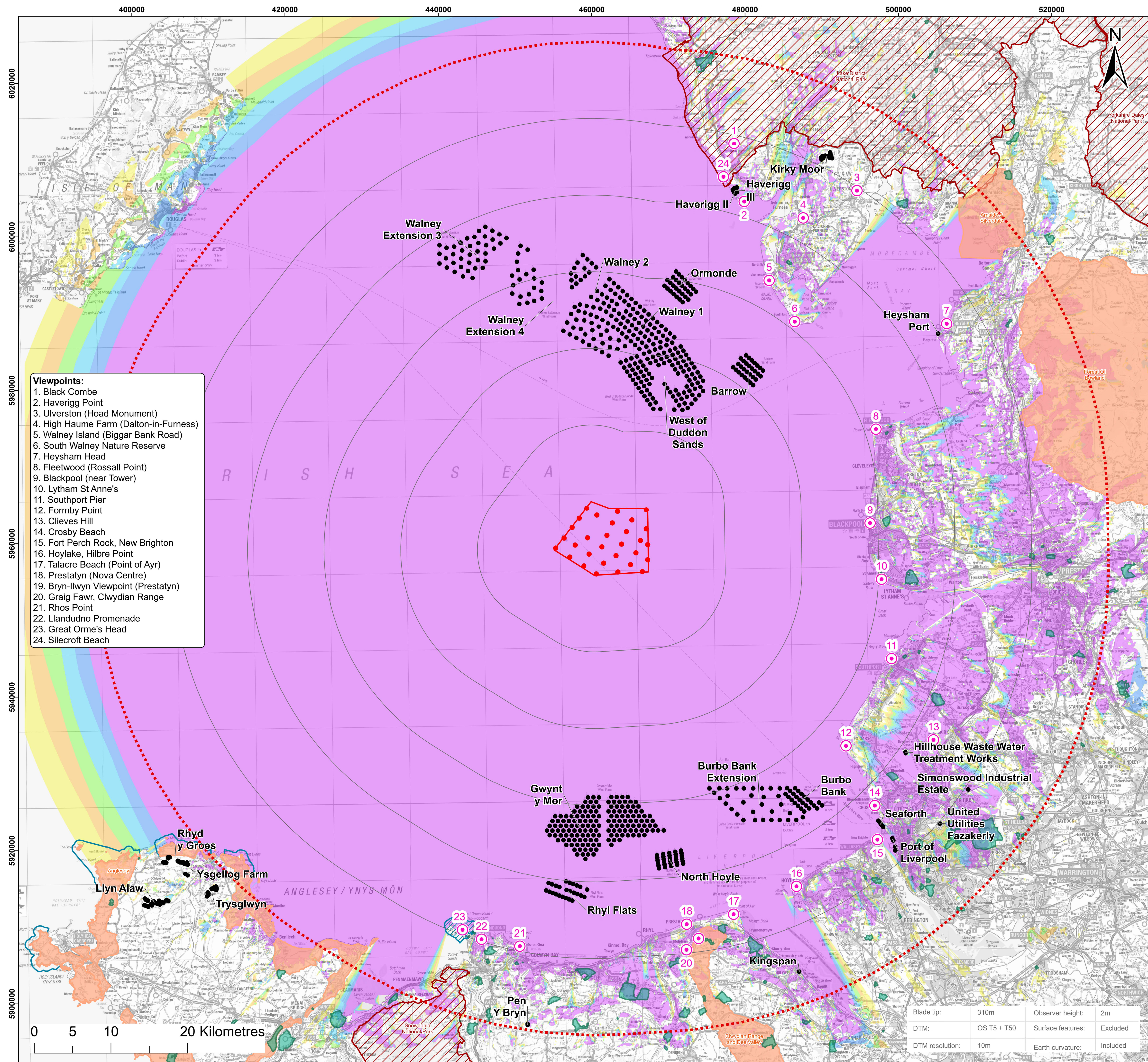
Title: **Blade Tip Zone of Theoretical Visibility County Landscape Character Key**

Figure: 18.11b Drawing No: 211609

Revision:	Date:	Drawn:	Checked:	Size:	Scale:
P02	18/09/2023	RA	SM	A3	

Co-ordinate system:





- Viewpoints:**
1. Black Combe
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- Legend:**
- Morecambe Offshore Wind Farm - Assumed WTG locations (30 x BT 310m(HAT))
 - Viewpoints
 - Operational WTG
 - ▭ Morecambe Offshore Windfarm Site
 - 10km Radii
 - ⋯ 60km Study Area
 - Parks and Gardens
 - Area of Outstanding Natural Beauty
 - ▨ Heritage Coast
 - ▨ National Park
- No. Blade Tips Theoretically Visible**
- 1 - 5
 - 6 - 10
 - 11 - 15
 - 16 - 20
 - 21 - 25
 - 26 - 30

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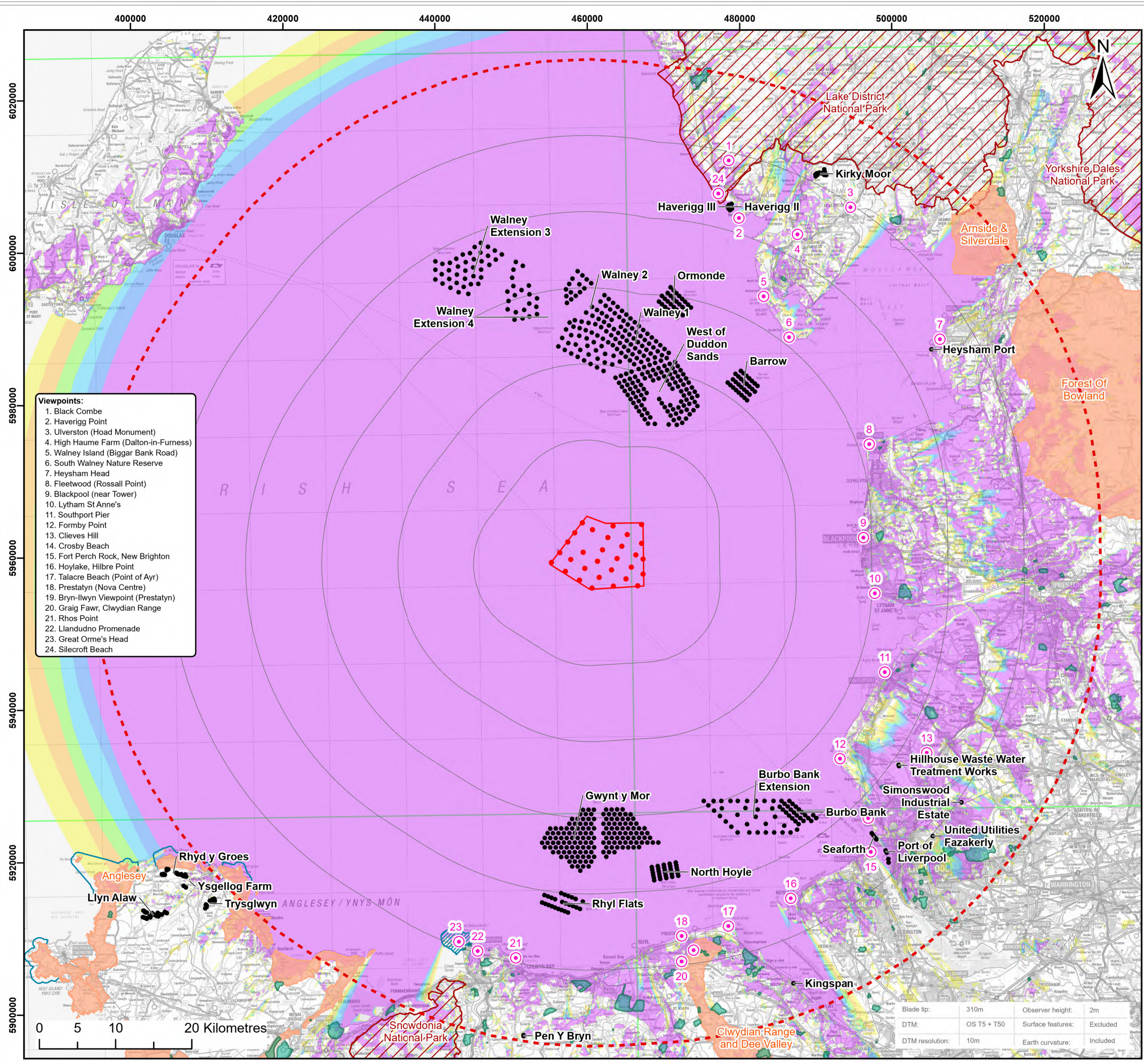
Title:
Blade Tip Zone of Theoretical Visibility with Landscape Designations

Figure: 18.12	Drawing No:	211609			
Revision:	Date:	Drawn:	Checked:	Size:	Scale:
P02	25/09/2023	RA	SM	A1	1:240,000

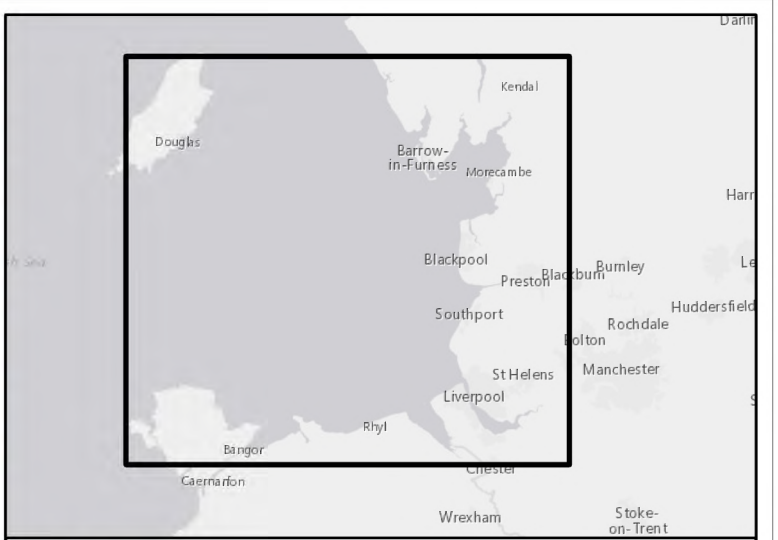
Co-ordinate system: WGS 1984 UTM Zone 30N

Blade tip:	310m	Observer height:	2m
DTM:	OS T5 + T50	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included





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 15. Fort Perch Rock, New Brighton
 16. Hoylake, Hilbre Point
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 19. Bryn-llwyn Viewpoint (Prestatyn)
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 22. Llandudno Promenade
 23. Great Orme's Head
 24. Silcroft Beach



Legend:

- Morecambe Offshore Wind Farm - Assumed WTG locations (30 x BT 310m(HAT))
- Viewpoints
- Operational WTG
- Morecambe Offshore Windfarm Site
- 10km Radii
- 60km Study Area
- Parks and Gardens
- Area of Outstanding Natural Beauty
- Heritage Coast
- National Park
- No. Blade Tips Theoretically Visible
- 1 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- 21 - 25
- 26 - 30

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Report:
 Morecambe Offshore Windfarm: Generation Assets Environmental Statement

Title:
 Blade Tip Zone of Theoretical Visibility Landscape Designations

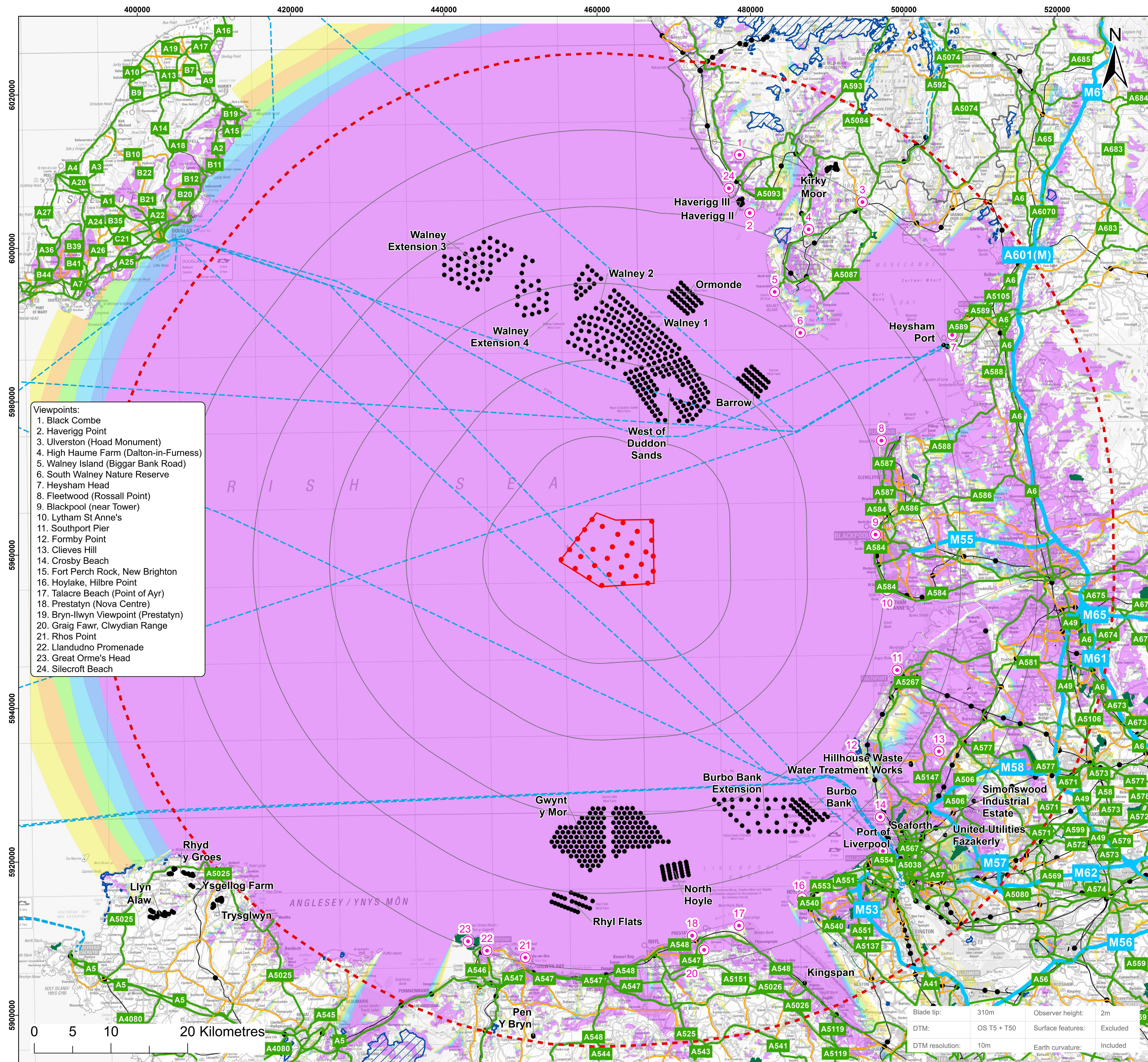
Figure: 18.12 Drawing No: 211609

Revision:	Date:	Drawn:	Checked:	Size:	Scale:
P02	18/09/2023	RA	SM	A3	1:500,000

Co-ordinate system: WGS 1984 UTM Zone 30N

Blade tip:	310m	Observer height:	2m
DTM:	OS T5 + T50	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included





- Viewpoints:
1. Black Combe
 2. Haverigg Point
 3. Ulverston (Hoad Monument)
 4. High Haume Farm (Dalton-in-Furness)
 5. Walney Island (Biggar Bank Road)
 6. South Walney Nature Reserve
 7. Heysham Head
 8. Fleetwood (Rossall Point)
 9. Blackpool (near Tower)
 10. Lytham St Anne's
 11. Southport Pier
 12. Formby Point
 13. Clieves Hill
 14. Crosby Beach
 15. Fort Perch Rock, New Brighton
 16. Hoylake, Hilbre Point
 17. Talacre Beach (Point of Ayr)
 18. Prestatyn (Nova Centre)
 19. Bryn-llwyn Viewpoint (Prestatyn)
 20. Graig Fawr, Clwydian Range
 21. Rhos Point
 22. Llandudno Promenade
 23. Great Orme's Head
 24. Silecroft Beach

Legend:

- Morecambe Offshore Wind Farm - Assumed WTG locations (30 x BT 310m(HAT))
- Viewpoints
- Operational WTG
- Morecambe Offshore Windfarm Site
- 10km Radii
- 60km Study Area
- Railway Station
- Railway Track
- A Road
- B Road
- Motorway
- Vehicular Ferry Route
- World Heritage Sites
- National Trust Land
- Country Park
- No. Blade Tips Theoretically Visible
- 1 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- 21 - 25
- 26 - 30

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Report:
 Morecambe Offshore Windfarm: Generation Assets Environmental Statement

Title:
 Blade Tip Zone of Theoretical Visibility with Visual Receptors (A1)

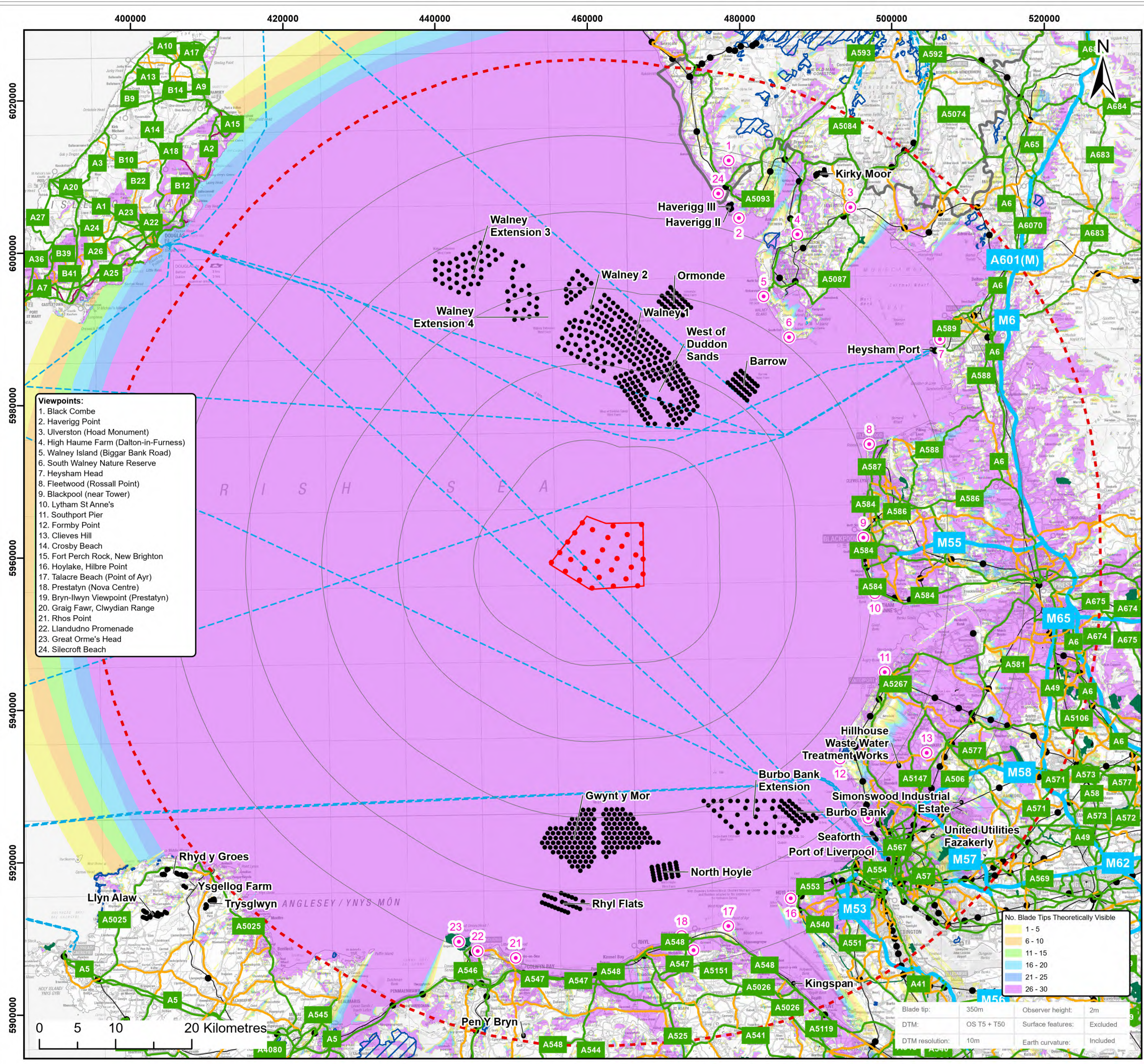
Figure: 18.13 Drawing No: 211609

Revision:	Date:	Drawn:	Checked:	Size:	Scale:
P02	25/09/2023	RA	SM	A1	1:240,000

Co-ordinate system: WGS 1984 UTM Zone 30N

Blade tip:	310m	Observer height:	2m
DTM:	OS T5 + T50	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included





Legend:

- Morecambe Offshore Wind Farm - Assumed WTG locations (30 x BT 310m(HAT))
- Viewpoints
- Operational WTG
- Morecambe Offshore Windfarm Site
- 10km Radii
- 60km Study Area
- Country Park
- National Trust Land
- World Heritage Sites
- Railway Station
- Railway Track
- Vehicular Ferry Route
- A Road
- B Road
- Motorway

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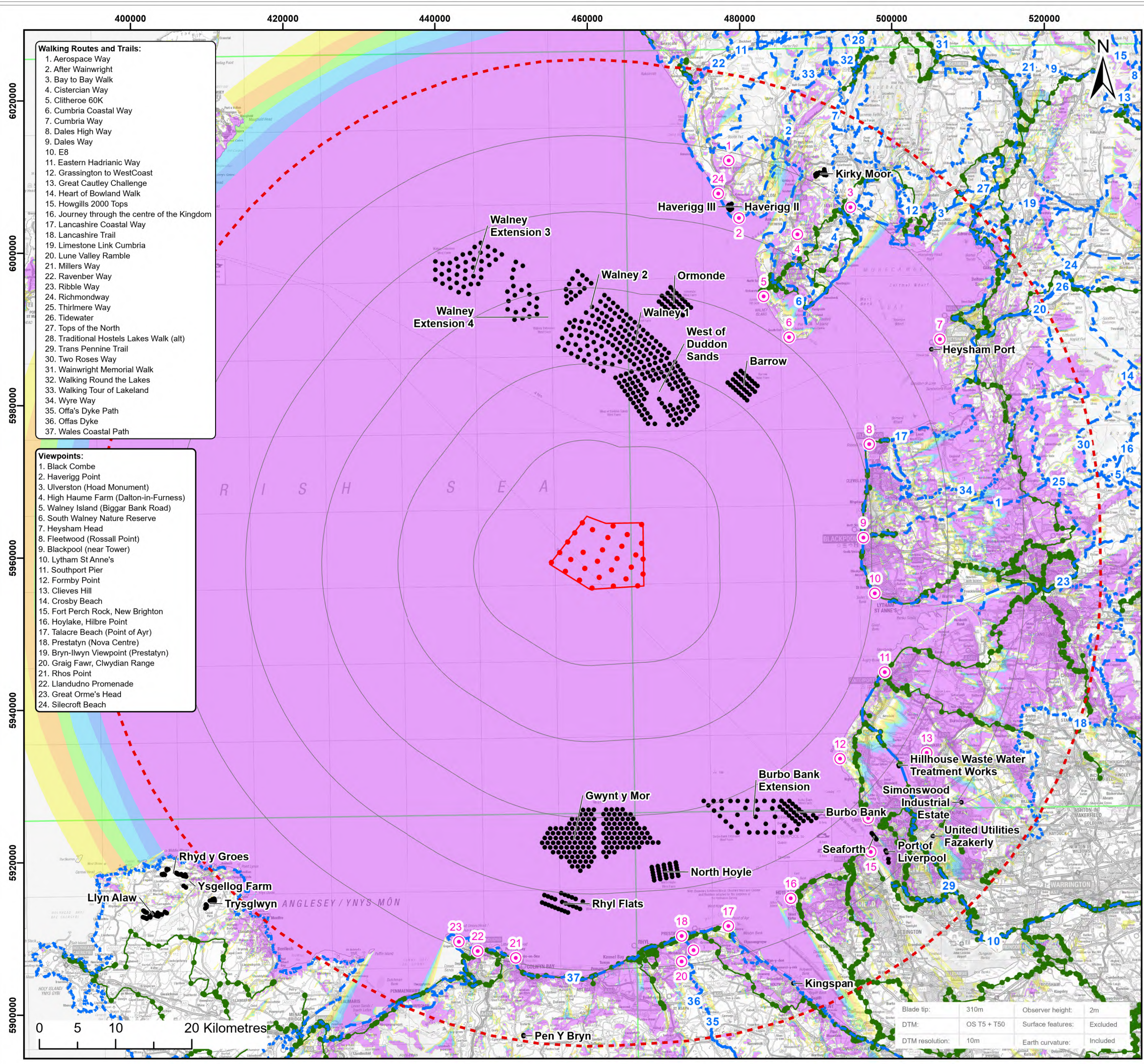
Report:
 Morecambe Offshore Windfarm: Generation Assets Environmental Statement

Title:
 Blade Tip Zone of Theoretical Visibility and Principle Visual Receptors

Figure: 18.13	Drawing No:	211609			
Revision:	Date:	Drawn:	Checked:	Size:	Scale:
P02	17/08/2023	RA	SM	A3	1:500,000

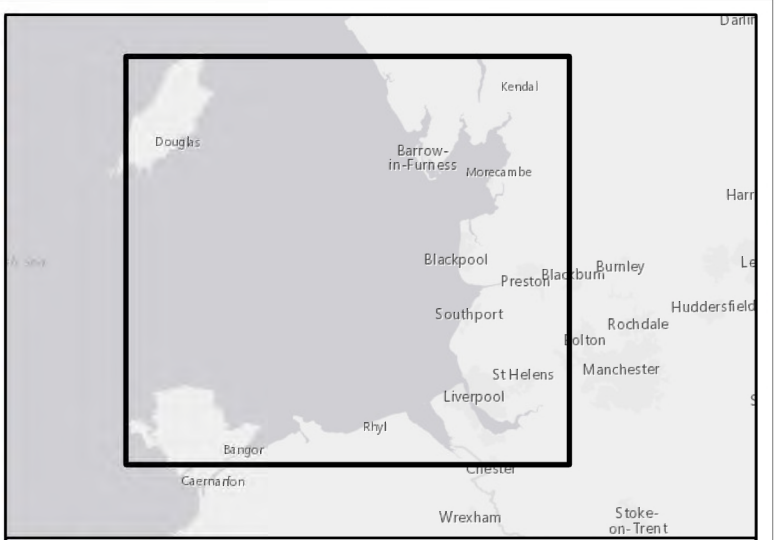
Co-ordinate system: WGS 1984 UTM Zone 30N





- Walking Routes and Trails:**
1. Aerospace Way
 2. After Wainwright
 3. Bay to Bay Walk
 4. Cistercian Way
 5. Clitheroe 60K
 6. Cumbria Coastal Way
 7. Cumbria Way
 8. Dales High Way
 9. Dales Way
 10. E8
 11. Eastern Hadrianic Way
 12. Grassington to WestCoast
 13. Great Cautley Challenge
 14. Heart of Bowland Walk
 15. Howgills 2000 Tops
 16. Journey through the centre of the Kingdom
 17. Lancashire Coastal Way
 18. Lancashire Trail
 19. Limestone Link Cumbria
 20. Lune Valley Ramble
 21. Millers Way
 22. Ravenber Way
 23. Ribble Way
 24. Richmondway
 25. Thirlmere Way
 26. Tidewater
 27. Tops of the North
 28. Traditional Hostels Lakes Walk (alt)
 29. Trans Pennine Trail
 30. Two Roses Way
 31. Wainwright Memorial Walk
 32. Walking Round the Lakes
 33. Walking Tour of Lakeland
 34. Wyre Way
 35. Offa's Dyke Path
 36. Offas Dyke
 37. Wales Coastal Path

- Viewpoints:**
1. Black Combe
 2. Haverigg Point
 3. Ulverston (Hoad Monument)
 4. High Haume Farm (Dalton-in-Furness)
 5. Walney Island (Biggar Bank Road)
 6. South Walney Nature Reserve
 7. Heysham Head
 8. Fleetwood (Rossall Point)
 9. Blackpool (near Tower)
 10. Lytham St Anne's
 11. Southport Pier
 12. Formby Point
 13. Clieves Hill
 14. Crosby Beach
 15. Fort Perch Rock, New Brighton
 16. Hoylake, Hilbre Point
 17. Talacre Beach (Point of Ayr)
 18. Prestatyn (Nova Centre)
 19. Bryn-Ilwyn Viewpoint (Prestatyn)
 20. Graig Fawr, Clwydian Range
 21. Rhos Point
 22. Llandudno Promenade
 23. Great Orme's Head
 24. Silcroft Beach



Legend:

- Morecambe Offshore Wind Farm - Assumed WTG locations (30 x BT 310m(HAT))
- Viewpoints
- Operational WTG
- Morecambe Offshore Windfarm Site
- 10km Radii
- 60km Study Area
- Walking Routes and Trails
- National Cycle Route

No. Blade Tips Theoretically Visible

- 1 - 5
- 6 - 10
- 11 - 15
- 16 - 20
- 21 - 25
- 26 - 30

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Report:
Morecambe Offshore Windfarm: Generation Assets Environmental Statement

Title:
Blade Tip Zone of Theoretical Visibility with Recreational Routes

Figure: 18.14	Drawing No:	211609			
Revision:	Date:	Drawn:	Checked:	Size:	Scale:
P02	18/09/2023	RA	SM	A3	1:500,000

Co-ordinate system: WGS 1984 UTM Zone 30N

Blade tip:	310m	Observer height:	2m
DTM:	OS T5 + T50	Surface features:	Excluded
DTM resolution:	10m	Earth curvature:	Included

