



# MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

## Environmental Statement

Volume 3, Annex 2.2: Surface water abstraction licences, discharge consents and pollution incidents



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**Prepared by:**

**RPS**

**Prepared for:**

**Morgan Offshore Wind Limited  
Morecambe Offshore Windfarm Ltd**

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## Glossary

| Term  | Meaning  |
|---|--|
| 400 kV grid connection cables                                 | Cables that will connect the proposed onshore substations to the existing National Grid Penwortham substation.   |
| 400 kV grid connection cable corridor                         | The corridor within which the 400 kV grid connection cables will be located.   |
| Environmental Impact Assessment                               | The process of identifying and assessing the significant effects likely to arise from a project. This requires consideration of the likely changes to the environment, where these arise as a consequence of a project, through comparison with the existing and projected future baseline conditions.   |
| Environmental Statement                                       | The document presenting the results of the Environmental Impact Assessment process.  |
| Landfall  | The area in which the offshore export cables make landfall (come on shore) and the transitional area between the offshore cabling and the onshore cabling. This term applies to the entire landfall area at Lytham St. Annes between Mean Low Water Springs and the transition joint bay inclusive of all construction works, including the offshore and onshore cable routes, intertidal working area and landfall compound(s).                                 |
| Local Planning Authority (LPA)                                | The local government body (e.g., Borough Council, District Council, etc.) responsible for determining planning applications within a specific area.  |
| Mean High Water Springs                                       | The height of mean high water during spring tides in a year.   |
| Mean Low Water Springs  | The height of mean low water during spring tides in a year.  |
| Morgan and Morecambe Offshore Wind Farms: Transmission Assets | The offshore and onshore infrastructure connecting the Morgan Offshore Wind Project and the Morecambe Offshore Windfarm to the national grid. This includes the offshore export cables, landfall site, onshore export cables, onshore substations, 400 kV grid connection cables and associated grid connection infrastructure such as circuit breaker compounds.<br><br>Also referred to in this report as the Transmission Assets, for ease of reading.        |
| Onshore export cables   | The cables which would bring electricity from the landfall to the onshore substations.   |
| Onshore export cable corridor                                 | The corridor within which the onshore export cables will be located.   |
| Onshore substations   | The onshore substations will include a substation for the Morgan Offshore Wind Project: Transmission Assets and a substation for the Morecambe Offshore Windfarm: Transmission Assets. These will each comprise a compound containing the electrical components for transforming the power supplied from the generation assets to 400 kV and to adjust the power quality and power factor, as required to meet the UK Grid Code for supply to the National Grid. |
| Study Area  | This is an area which is defined for each environmental topic which includes the Transmission Assets Order Limits as well as potential spatial and temporal considerations of the impacts on relevant receptors. The study area for each topic is intended to cover the area within which an impact can be reasonably expected.  |



| Term                             | Meaning   |
|----------------------------------|---|
| Substation                       | Part of an electrical transmission and distribution system. Substations transform voltage from high to low, or the reverse by means of electrical transformers.   |
| Transmission Assets              | See Morgan and Morecambe Offshore Wind Farms: Transmission Assets (above)   |
| Transmission Assets Order Limits | The area within which all components of the Transmission Assets will be located, including areas required on a temporary basis during construction and/or decommissioning (such as construction compounds). |

## Acronyms

| Acronym | Meaning                              |
|---------|--------------------------------------|
| EA      | Environment Agency                   |
| EIA     | Environmental Impact Assessment      |
| ES      | Environmental Statement              |
| EPR     | Environmental Permitting Regulations |
| NRA     | National Risk Assessment             |
| UK      | United Kingdom                       |
| WRA     | Water Resources Act                  |

## Units

| Unit | Description |
|------|-------------|
| km   | Kilometres  |
| kV   | Kilovolt    |
| m    | Metre       |

# 1 Surface water abstraction licences, discharge consents and pollution incidents technical report

## 1.1 Introduction

- 1.1.1.1 This document forms Volume 3, Annex 2.2: Surface water abstraction licences, discharge consents and pollution incidents of the Environmental Statement (ES) prepared for the Morgan and Morecambe Offshore Wind Farms: Transmission Assets (referred to hereafter as ‘the Transmission Assets’). The Environmental Statement presents the findings of the Environmental Impact Assessment (EIA) process for the Transmission Assets.
- 1.1.1.2 This document provides information on the following.
- Surface water abstraction licences (which are a good indication of how the surface watercourses are utilised).
    - The surface water abstraction licences dataset is based on consented surface water abstractions and as such is the most accurate dataset regarding how much water is taken from the watercourses within the study area.
  - Discharge consents (the subject of which may affect the baseline quality of the receiving surface water).
  - Pollution incidents where the quality of watercourses may have been affected.
- 1.1.1.3 The licences, consents and incidents listed above have been used to inform the baseline and assessment in Volume 3, Chapter 2: Hydrology and flood risk and Volume 3 Chapter 1: Geology, Hydrogeology and Ground Conditions of the ES.

## 1.2 Methodology

### 1.2.1 Sources of information

- 1.2.1.1 Details of the licences, consents and incidents have been obtained from a commercial data supplier (Groundsure Limited) and local planning authorities relevant to the Transmission Assets (Fylde Borough Council, Blackpool Council, South Ribble Borough Council and Preston City Council). The information is regulated by the Environment Agency (EA) and the local planning authorities.

### 1.2.2 Study area

- 1.2.2.1 The elements of the hydrology and flood risk study area relevant to this technical report are described below and shown on **Figure 1.1**, **Figure 1.2** and **Figure 1.3**.

- The area of land to be occupied during the construction, operation and maintenance, and decommissioning of the Transmission Assets.
- Hydrology and flood risk receptors located within 1 km of onshore substations and associated access/egress: the proposed substations containing the components for transforming the power supplied via the onshore export cables up to 400 kV;
- Hydrology and flood risk receptors located within 250 m of the onshore infrastructure area including the following.
  - Landfall: where the offshore and onshore export cables are jointed via transition joint bays.
  - Onshore export cables: the cables which would bring electricity from the landfall to the onshore substations.
  - 400 kV grid connection cables: cables that will connect the proposed onshore substations to the existing National Grid Penwortham substation.
  - Temporary construction compounds and temporary access tracks for the onshore substations, landfall, onshore export cable corridor and 400 kV grid connection cable corridor.

#### 1.2.2.2

Due to the variety of nature of the hydrological receptors within proximity of the Transmission Assets and scale of the Transmission Assets, the study area is appropriate for data collection taking into account the likely zone of influence by hydrological receptors. Beyond these buffer zones, the magnitude of effect will be unable to be accurately assessed as the dilution capacity becomes greater as the hydraulic catchment increases downstream of the Transmission Assets. The buffers have also been chosen to identify any existing receptors, assets or infrastructure that have the potential to be affected by temporary flood risk as a result of the construction phase of the Transmission Assets.

### 1.3 Desk study

#### 1.3.1 Surface water abstraction licences

1.3.1.1 There are no active or unrevoked surface water abstraction licences within the hydrology and flood risk study area. One historical (non active) surface water abstraction licence is located within the onshore export cable corridor and is listed within **Table 1.1** and shown on **Figure 1.1**.

**Table 1.1: Surface water abstractions**

| Details | Licence Holder               | Details                   | Source  | Status     | Distance from OL                        |
|---------|------------------------------|---------------------------|---------|------------|---|
| SW1     | Thomas Joseph Blacoe and son | Spray irrigation - direct | Unknown | Historical | 50 m from onshore export cable corridor |





**Figure 1.1: Surface water abstractions**



## 1.3.2 Pollution incidents

1.3.2.1 Pollution incidents are classified by the EA into one of four categories using the common incident classification scheme. The different categories of pollution incidents are defined in **Table 1.2** below.

**Table 1.2: Pollution incident categories**

| Pollution Incident Category | Description  |
|-----------------------------|--|
| Category 1                  | Major, serious, persistent or extensive impact or effect on the environment, people and/or property. |
| Category 2                  | Significant impact or effect on the environment, people and/or property.                             |
| Category 3                  | Minor or minimal impact or effect on the environment, people and/or property.                        |
| Category 4                  | Substantiated incident with no impact.   |

1.3.2.2 There are 41 pollution incidents relating to water identified within the study area, five of which are classified as significant (Category 2). Pollution incidents are identified in **Table 1.3** and shown on **Figure 1.2A, Figure 1.2B and Figure 1.2C**.

1.3.2.3 The pollutant types identified in **Table 1.3** and their descriptions are taken verbatim from the EA dataset.

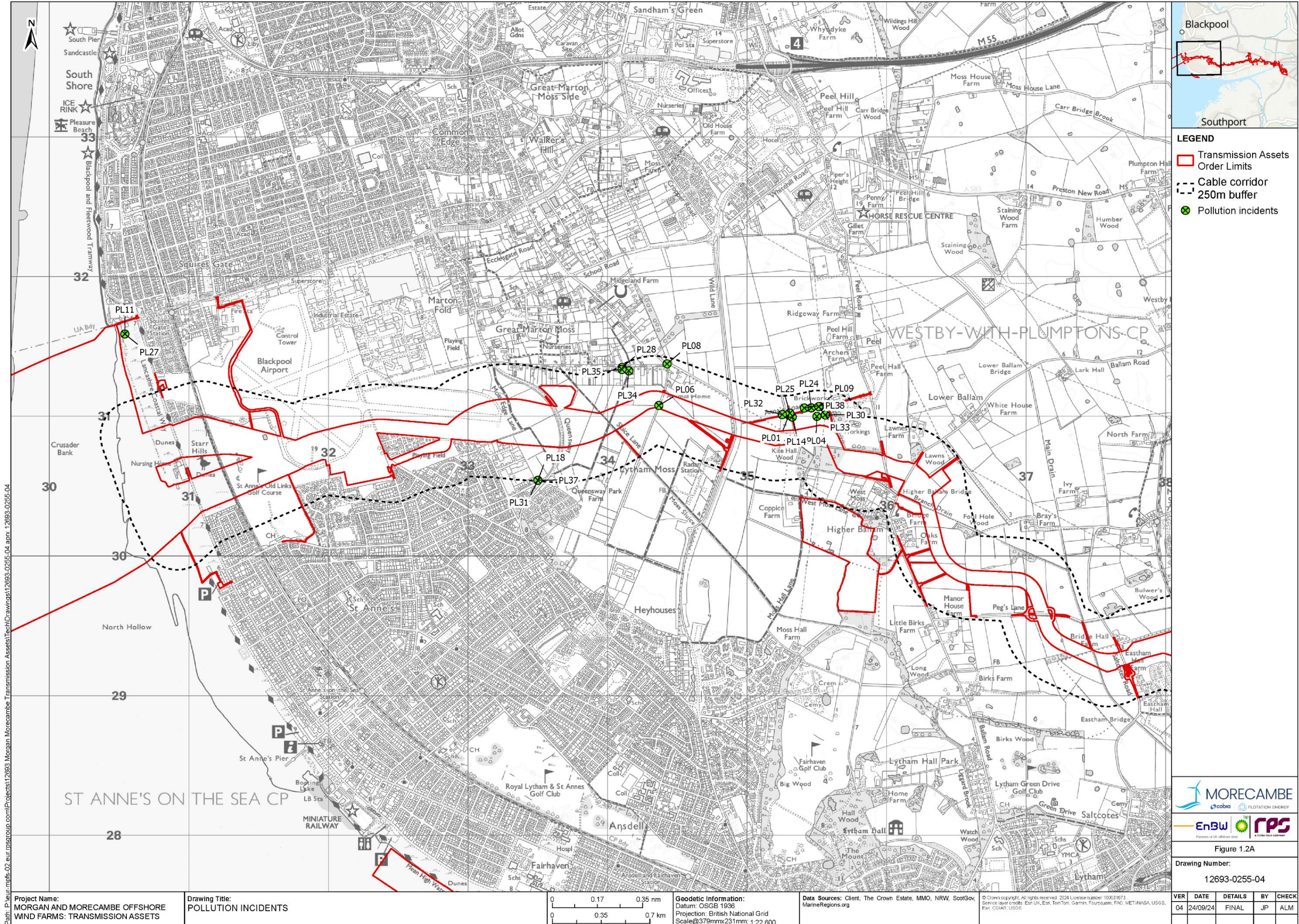
**Table 1.3: Pollution incidents**

| ID   | Incident Identification | Date       | Pollution Categories     | Pollutant Type and Description  | Approximate distance from OL    |
|------|-------------------------|------------|--------------------------|---|---------------------------------|
| PL01 | 371393                  | 17/01/2006 | Category 2 (Significant) | Pollutant Not Identified  | 3 m                             |
| PL02 | 650564                  | 03/02/2009 | Category 2 (Significant) | Sewage Materials – Sludge   | 6 m                             |
| PL03 | 144131                  | 18/03/2003 | Category 3 (Minor)       | Sewage Materials – Grey water   | 2 m                             |
| PL04 | 51398                   | 21/11/2001 | Category 4 (No Impact)   | General Biodegradable Materials and Wastes - Vegetable Cuttings and Deposits  | 54 m                            |
| PL05 | 134994                  | 31/01/2003 | Category 2 (Significant) | General Biodegradable Materials and Wastes - Food and Drink                   | 47 m                            |
| PL06 | 167926                  | 23/06/2003 | Category 4 (No Impact)   | Inert Materials and Wastes - Construction and Demolition Materials and Wastes | Located within the Order Limits |
| PL07 | 7459                    | 25/05/2001 | Category 3 (Minor)       | Oils and Fuel - Petrol  | 177 m                           |
| PL08 | 103612                  | 28/08/2002 | Category 4 (No Impact)   | Specific Waste Materials - Commercial Waste                                   | 194 m                           |
| PL09 | 38829                   | 24/10/2001 | Category 4 (No Impact)   | Specific Waste Materials - Household Waste                                    | 7 m                             |
| PL10 | 191687                  | 22/09/2003 | Category 4 (No Impact)   | Oils and Fuel - Unidentified Oil  | Located within the Order Limits |
| PL11 | 11587                   | 26/06/2001 | Category 4 (No Impact)   | Inorganic Chemicals/Products - Acids  | 41 m                            |
| PL12 | 171978                  | 08/07/2003 | Category 4 (No Impact)   | General Biodegradable Materials and Wastes - Food and Drink                   | 21 m                            |
| PL13 | 111981                  | 18/09/2002 | Category 3 (Minor)       | General Biodegradable Materials and Wastes - Food and Drink                   | 57 m                            |
| PL14 | 351641                  | 06/10/2005 | Category 2 (Significant) | Oils and Fuel - Unidentified Oil  | Located within the Order Limits |
| PL15 | 187073                  | 03/09/2003 | Category 3 (Minor)       | General Biodegradable Materials and Wastes - Food and Drink                   | 8 m                             |
| PL16 | 151486                  | 15/04/2003 | Category 4 (No Impact)   | Oils and Fuel - Diesel  | 7 m                             |

| ID   | Incident Identification | Date       | Pollution Categories   | Pollutant Type and Description   | Approximate distance from OL |
|------|-------------------------|------------|------------------------|--|------------------------------|
| PL17 | 112204                  | 02/10/2002 | Category 3 (Minor)     | General Biodegradable Materials and Wastes - Food and Drink            | 21 m                         |
| PL18 | 154480                  | 28/04/2003 | Category 3 (Minor)     | Sewage Materials: Sewage Materials - Grey Water: Other Sewage Material | 245 m                        |
| PL19 | 5434                    | 14/05/2001 | Category 3 (Minor)     | Specific Waste Materials - Commercial Waste                            | 11 m                         |
| PL20 | 121159                  | 15/11/2002 | Category 4 (No Impact) | Specific Waste Materials - Asbestos                                    | 85 m                         |
| PL21 | 74259                   | 05/04/2002 | Category 3 (Minor)     | General Biodegradable Materials and Wastes - Food and Drink            | 25 m                         |
| PL22 | 371181                  | 16/01/2006 | Category 3 (Minor)     | Agricultural Materials and Wastes - Slurry and Dilute Slurry           | 364 m                        |
| PL23 | 94838                   | 27/07/2002 | Category 3 (Minor)     | General Biodegradable Materials and Wastes - Food and Drink            | 146 m                        |
| PL24 | 175620                  | 22/07/2003 | Category 4 (No Impact) | Specific Waste Materials - Household Waste                             | 11 m                         |
| PL25 | 2632                    | 18/04/2001 | Category 4 (No Impact) | Specific Waste Materials - Commercial Waste                            | 6 m                          |
| PL26 | 118589                  | 04/11/2002 | Category 3 (Minor)     | General Biodegradable Materials and Wastes - Food and Drink            | 9 m                          |
| PL27 | 11587                   | 26/06/2001 | Category 4 (No Impact) | Inorganic Chemicals/Products - Acids                                   | 41 m                         |
| PL28 | 45002                   | 26/11/2001 | Category 4 (No Impact) | Other Pollutant - Other  | 234 m                        |
| PL29 | 29090                   | 05/09/2001 | Category 3 (Minor)     | Pollutant Not Identified   | 262 m                        |
| PL30 | 40977                   | 03/11/2001 | Category 4 (No Impact) | Atmospheric Pollutants and Effects - Smoke                             | 34 m                         |
| PL31 | 154480                  | 28/04/2003 | Category 3 (Minor)     | Sewage Materials - Other Sewage Material                               | 24 m                         |
| PL32 | 5827                    | 17/05/2001 | Category 4 (No Impact) | Specific Waste Materials - Household Waste                             | 7 m                          |

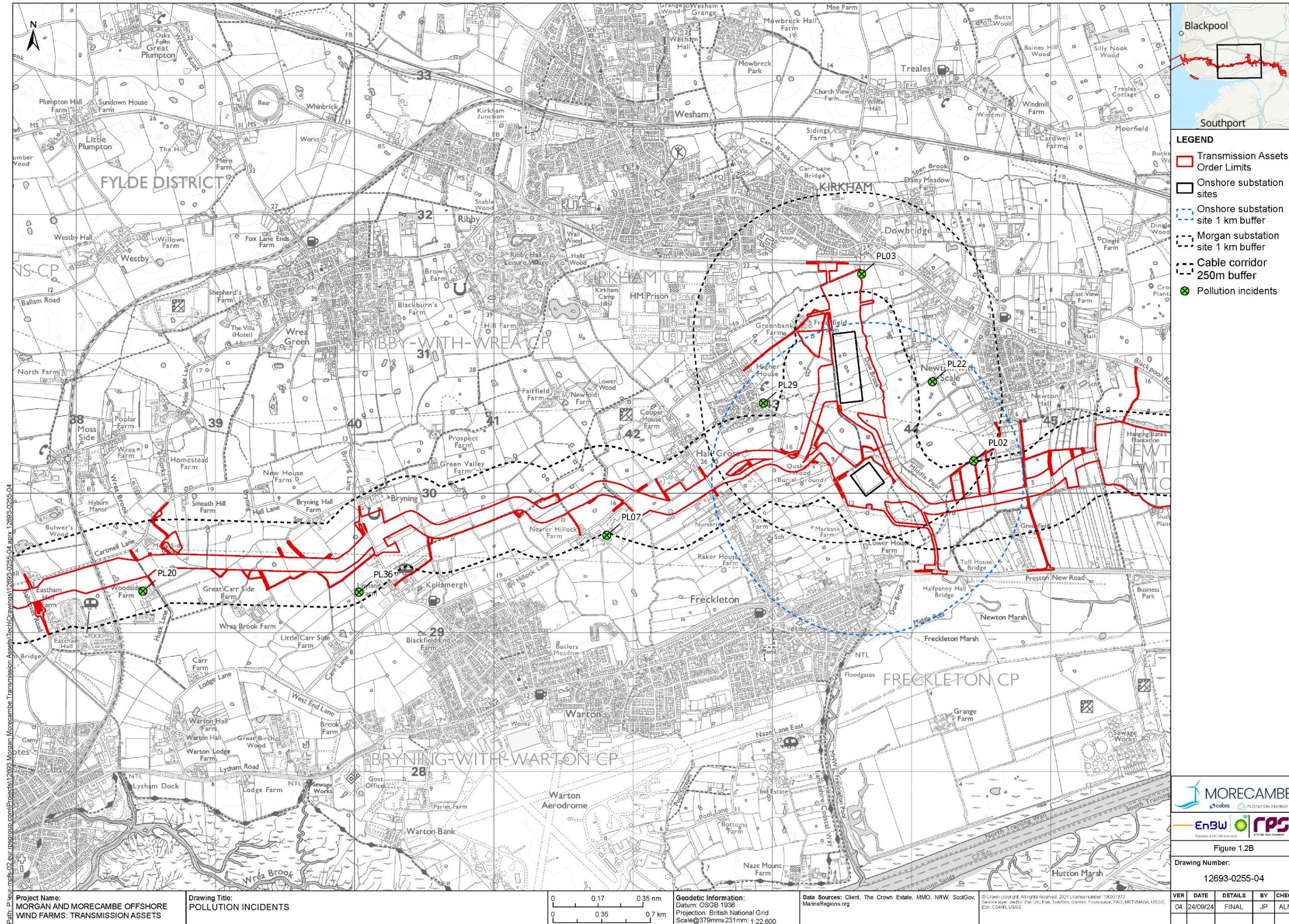
| ID   | Incident Identification | Date       | Pollution Categories     | Pollutant Type and Description   | Approximate distance from OL |
|------|-------------------------|------------|--------------------------|--|------------------------------|
| PL33 | 56986                   | 07/02/2002 | Category 4 (No Impact)   | Specific Waste Materials - Other Specific Waste Material   | 7 m                          |
| PL34 | 1222071                 | 28/03/2014 | Category 2 (Significant) | Sewage Materials - Crude Sewage  | 199 m                        |
| PL35 | 45001                   | 26/11/2001 | Category 4 (No Impact)   | Other Pollutant - Other  | 226 m                        |
| PL36 | 56209                   | 04/02/2002 | Category 4 (No Impact)   | Agricultural Materials and Wastes - Other Agricultural Material or Waste   | 142 m                        |
| PL37 | 154480                  | 28/04/2003 | Category 3 (Minor)       | Sewage Materials - Grey Water  | 245 m                        |
| PL38 | 164247                  | 09/06/2003 | Category 3 (Minor)       | Inert Materials and Wastes: General Biodegradable Materials and Wastes: Specific Waste Materials: Specific Waste Materials | 21 m                         |





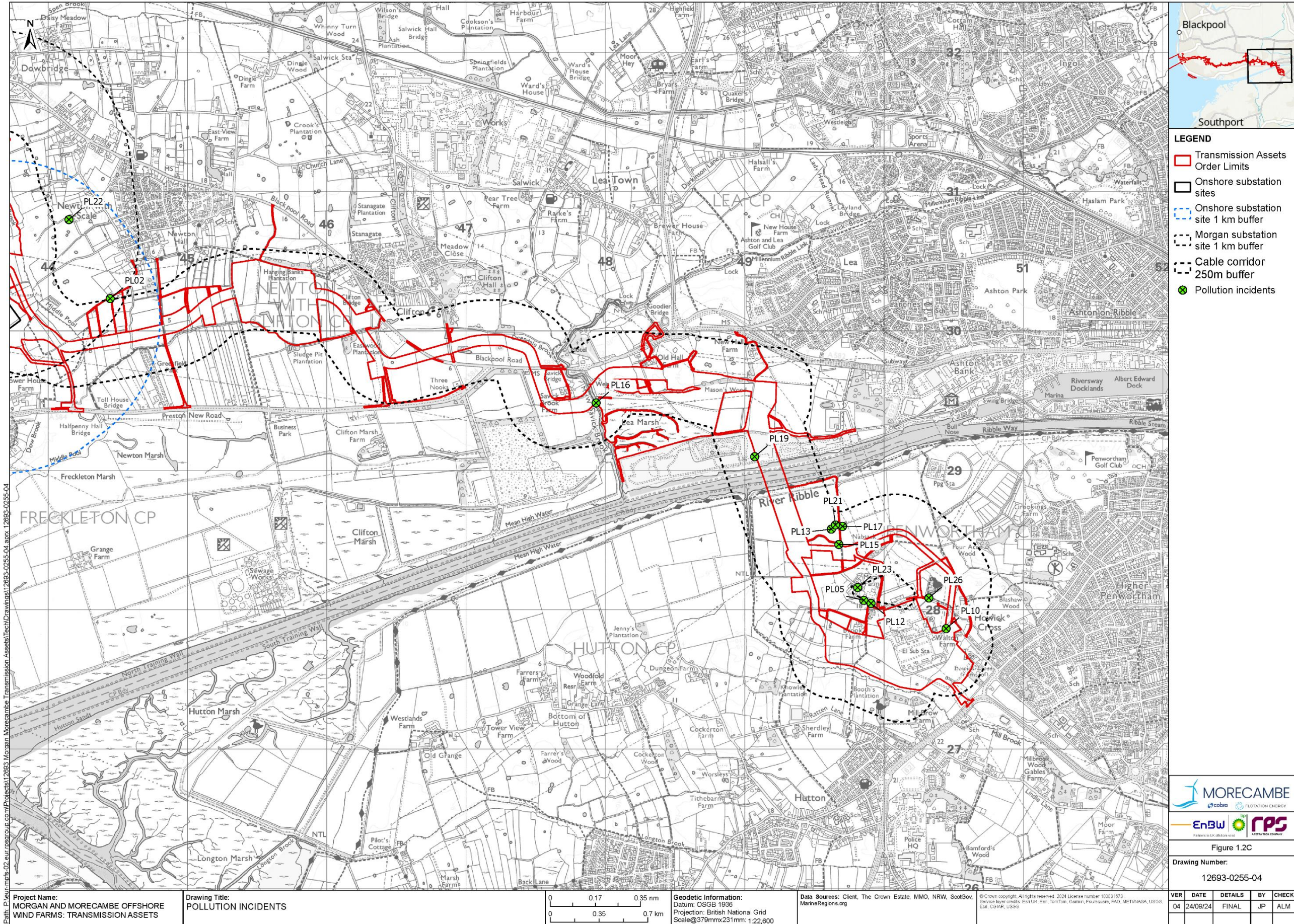
**Figure 1.2A: Pollution incidents**





**Figure 1.2A: Pollution incidents**





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Project Name:  
MORGAN AND MORECAMBE OFFSHORE  
WIND FARMS: TRANSMISSION ASSETS

Drawing Title:  
POLLUTION INCIDENTS

0 0.17 0.35 nm  
0 0.35 0.7 km

Geodetic Information:  
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Projection: British National Grid  
Scale@379mmx231mm: 1:22,600

Data Sources: Client, The Crown Estate, MMO, NRW, ScotGov,  
MarineRegions.org

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Esri, CMAP, US99

**MORECAMBE**  
cobra FLOTATION ENERGY

**EnBW** **rps**

Figure 1.2C  
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12693-0255-04

| VER | DATE     | DETAILS | BY | CHECK |
|-----|----------|---------|----|-------|
| 04  | 24/09/24 | FINAL   | JP | ALM   |

**Figure 1.2A: Pollution incidents**



### 1.3.3 Discharge consents

- 1.3.3.1 There are 21 discharge consents within the study area, nine of which are revoked and 12 of which are still active and/or unrevoked. Consents are listed below in **Table 1.4** and shown on **Figure 1.3A**, **Figure 1.3B** and **Figure 1.3C**.

**Table 1.4: Discharge consents**

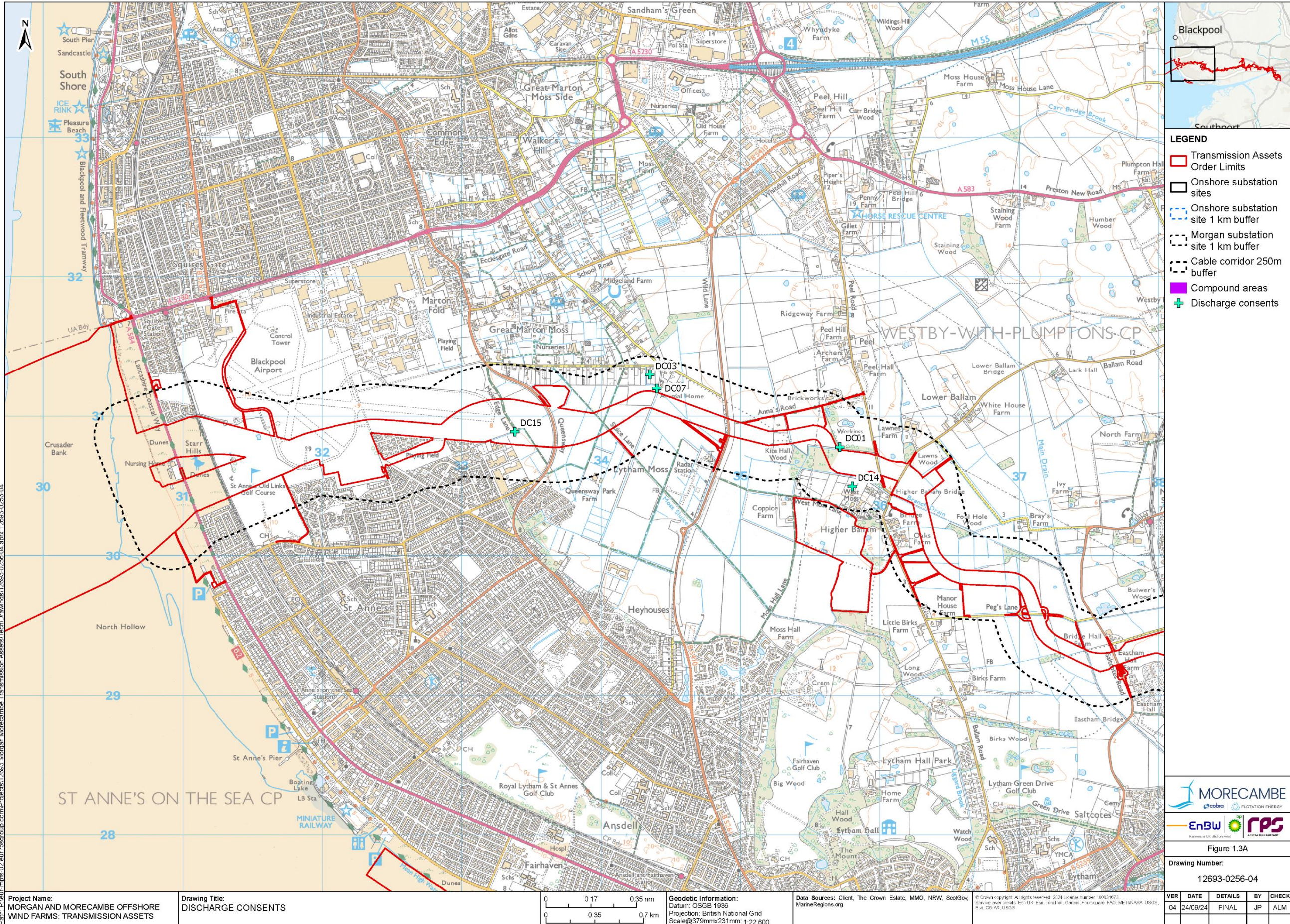
| Id   | Receiving water body                     | Status   | Issue date     | Revocation date | Address   | Discharge type  | Approximate distance from OL    |
|------|--|--|----------------|-----------------|---|---|---------------------------------|
| DC01 | Tributary of Branch Drain                | Revoked – unspecified.   | 03/02/1998     | 10/04/2006      | Westby landfill, Anna's Road, Westby, Blackpool, Lancashire.                            | Waste site - domestic and industrial landfill.                  | 20 m                            |
| DC02 | Tributary of Mill Brook                  | Revoked – unspecified.   | No information | 13/12/1993      | Penwortham 400kv substation, Penwortham, Lancashire.                                    | Sewage discharges - final/treated effluent - not water company. | Located within the Order Limits |
| DC03 | Moss Sluice                              | Lapsed under schedule 23 environment act 1995.   | No information | 01/10/1996      | Silver cloud Division Lane, Blackpool, Lancashire.                                      | Sewage discharges - final/treated effluent - not water company. | 118 m                           |
| DC04 | Tributary of Middle Pool                 | Post national risk assessment (NRA) legislation where issue date is after 31 August 1989 (historic only).  | No information | No information  | Greenfield Caravan Park, Preston New Road, Newton-With-Clifton, Lancashire.             | Sewage discharges - pumping station - water company.            | 122 m                           |
| DC05 | -  | Revoked - unspecified  | No information | 31/12/1994      | Greenfield Caravan Park, Preston New Road, Newton-With-Clifton, Lancashire.             | Sewage discharges - unspecified - water company.                | 122 m                           |
| DC06 | Tributary of Howick Pool                 | Pre-NRA legislation where issue date is before 01 September 1989 (historic only).                          | 15/10/1965     | No information  | Pollards Farm, Howick Cross Lane, Penwortham, Preston, Lancashire, PR1 0NS.             | Sewage discharges - final/treated effluent - not water company. | 30 m                            |
| DC07 | Branch Drain and tributary of Main Drain | New consent (water resources act (WRA) 91, section 88 and schedule 10 as amended by Environment Act 1995). | 08/01/1999     | 13/02/2007      | Foxfield, package sewage treatment works, Division Lane, St Annes, Lancashire, FY4 5EA. | Sewage discharges - final/treated effluent - not water company. | 16 m                            |

| Id   | Receiving water body            | Status   | Issue date     | Revocation date | Address   | Discharge type  | Approximate distance from OL |
|------|---------------------------------|--|----------------|-----------------|---|---|------------------------------|
| DC08 | Tributary of Mill Brook         | Pre-NRA legislation where issue date before 01 September 1989 (historic only). | 05/05/1960     | No information  | Millbrook, Townley Lane, Penwortham, Preston, Lancashire, PR1 0NU.                              | Sewage discharges - final/treated effluent - not water company.                       | 182 m                        |
| DC09 | Dow Brook                       | Varied under environmental permitting regulations (EPR) 2010.                  | 09/06/2018     | No information  | Dow Bridge CSO 19080, Kirkham Bypass, Kirkham, Preston, Lancashire, PR4 3RD.                    | Sewage discharges – sewage treatment works/storm overflow/storm tank - water company. | 2 m                          |
| DC10 | Unnamed Tributary of Mill Brook | Revoked – unspecified.   | 26/02/2003     | 03/06/2005      | Pollards Farm, Howick Cross Lane, Penwortham, Preston, PR1 0NS.                                 | Trade discharges - site drainage.   | 5 m                          |
| DC11 | Dow Brook                       | Varied under EPA 2010.   | 12/10/2011     | 08/06/2018      | Dow Bridge CSO 19080, Kirkham Bypass, Kirkham, Preston, Lancashire, PR4 3RD.                    | Sewage discharges - sewage treatment works/storm overflow/storm tank - water company. | 2 m                          |
| DC12 | Savick Brook                    | Post-NRA legislation where issue date is after 31 August 1989 (historic only). | No information | No information  | Ok Diners, Blackpool Road, Lea, Preston, Lancashire.  | Sewage discharges - final/treated effluent - not water company.                       | 92 m                         |
| DC13 | Mill Brook                      | Revoked under EPR 2010.  | 10/12/2004     | 11/08/2010      | Penwortham 400kv Substation Out 1, Howick Cross Lane, Penwortham, Preston, Lancashire, PR1 0NS. | Miscellaneous discharges - surface water.   | 29 m                         |
| DC14 | Ribble Estuary                  | Post-NRA legislation where issue date is after 31 August 1989 (historic only). | No information | No information  | 8-18 West Moss Lane, Ballam, Lytham St Annes, Lancashire.                                       | Sewage discharges - final/treated effluent - not water company.                       | 80 m                         |



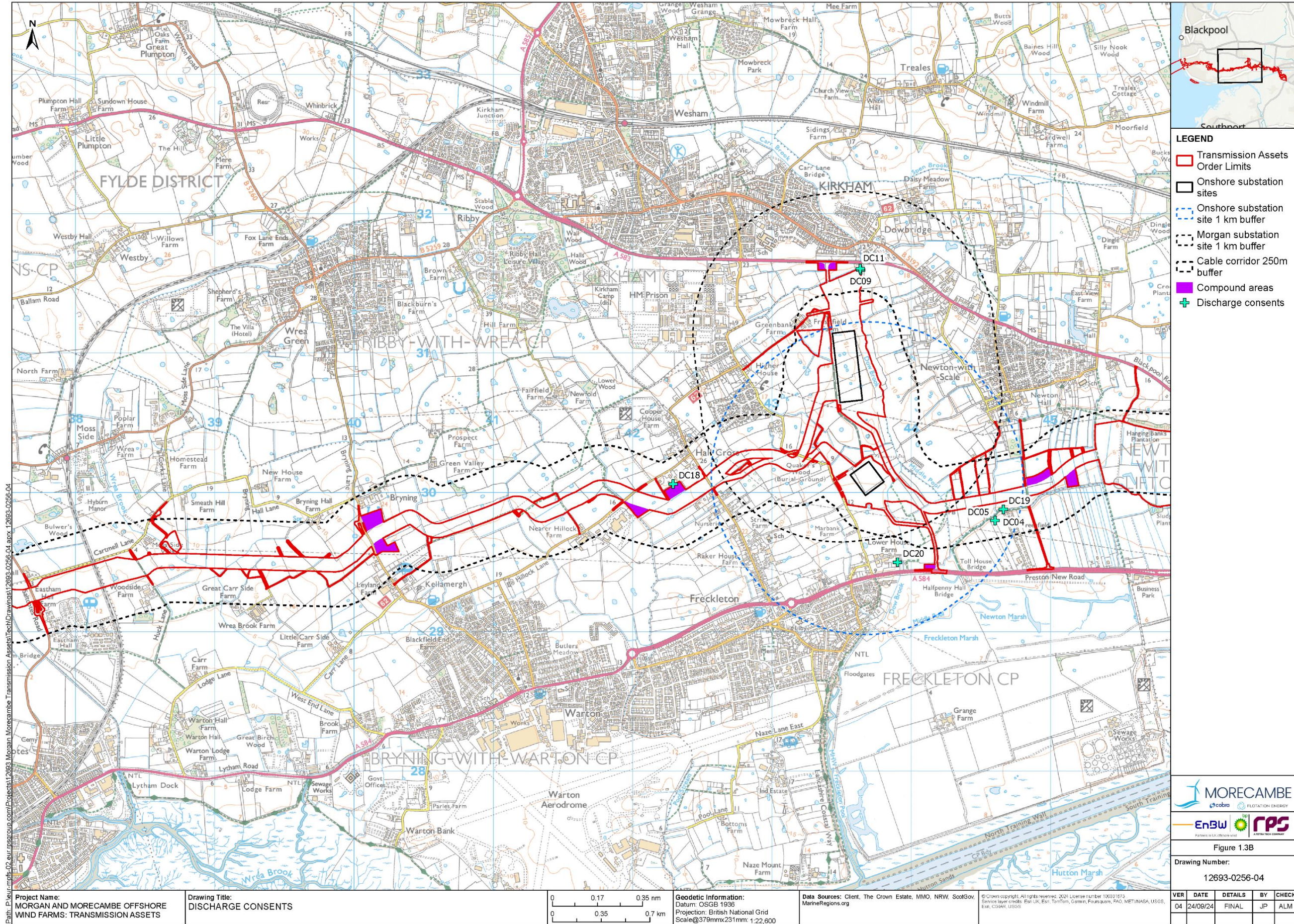
| <b>Id</b> | <b>Receiving water body</b>      | <b>Status</b>  | <b>Issue date</b> | <b>Revocation date</b> | <b>Address</b>   | <b>Discharge type</b>   | <b>Approximate distance from OL</b> |
|-----------|----------------------------------|--|-------------------|------------------------|--|---|-------------------------------------|
| DC15      | Unnamed tributary of Moss Sluice | Revoked – unspecified.   | 27/01/2005        | 05/12/2016             | Runway 10-28, Blackpool Airport, Squires Gate Lane, Blackpool, Lancashire, FY4 2QY.                      | Miscellaneous discharges - surface water.                       | Located within the Order Limits     |
| DC16      | River Ribble Estuary             | Revoked (WRA 91, section 88 and schedule 10 as amended by env act 1995).             | 02/07/1998        | 20/10/1998             | Sd4950028950 Pipe South Ribble East, 900 Metres Downstream Bullnose, Ribble Estuary, Ribble, Lancashire. | Trade discharges - process effluent - not water company.        | 32 m                                |
| DC17      | Tributary of River Ribble        | Revoked under EPR 2010.  | 10/12/2004        | 11/08/2010             | Penwortham 275 kV Substation Out 2, Howick Cross Lane, Penwortham, Preston, Lancashire, PR1 0NS.         | Miscellaneous discharges - surface water.                       | 13 m                                |
| DC18      | Tributary of Pool Stream         | New consent (WRA 91, section 88 and schedule 10 as amended by Environment Act 1995). | 18/01/2010        | No information         | Rowan Veterinary Centre, Hillock Lane, Freckleton, Preston, Lancashire, PR4 1TN.                         | Sewage and trade combined – unspecified.                        | 8 m                                 |
| DC19      | Tributary Middle Pool            | Consent revoked or revised - new consent issued (37(1)).                             | No information    | 23/11/1982             | Greenfield Caravan Park Ps (19), Preston New Road, Newton-With-Clifton, Lancashire.                      | Miscellaneous discharges - emergency discharges.                | 55 m                                |
| DC20      | Dow Brook                        | Revoked – unspecified.   | No information    | 05/07/1973             | SPS O/F 1 Freckleton, Fylde, Lancashire.   | Miscellaneous discharges - emergency discharges.                | 135 m                               |
| DC21      | Tributary of Mill Brook          | Pre-NRA legislation where issue date before 01 September 1989 (historic only).       | 16/03/1960        | No information         | Marsh Cottage, Howick Cross Lane, Penwortham, Preston, Lancashire, PR1.                                  | Sewage discharges - final/treated effluent - not water company. | 136 m                               |





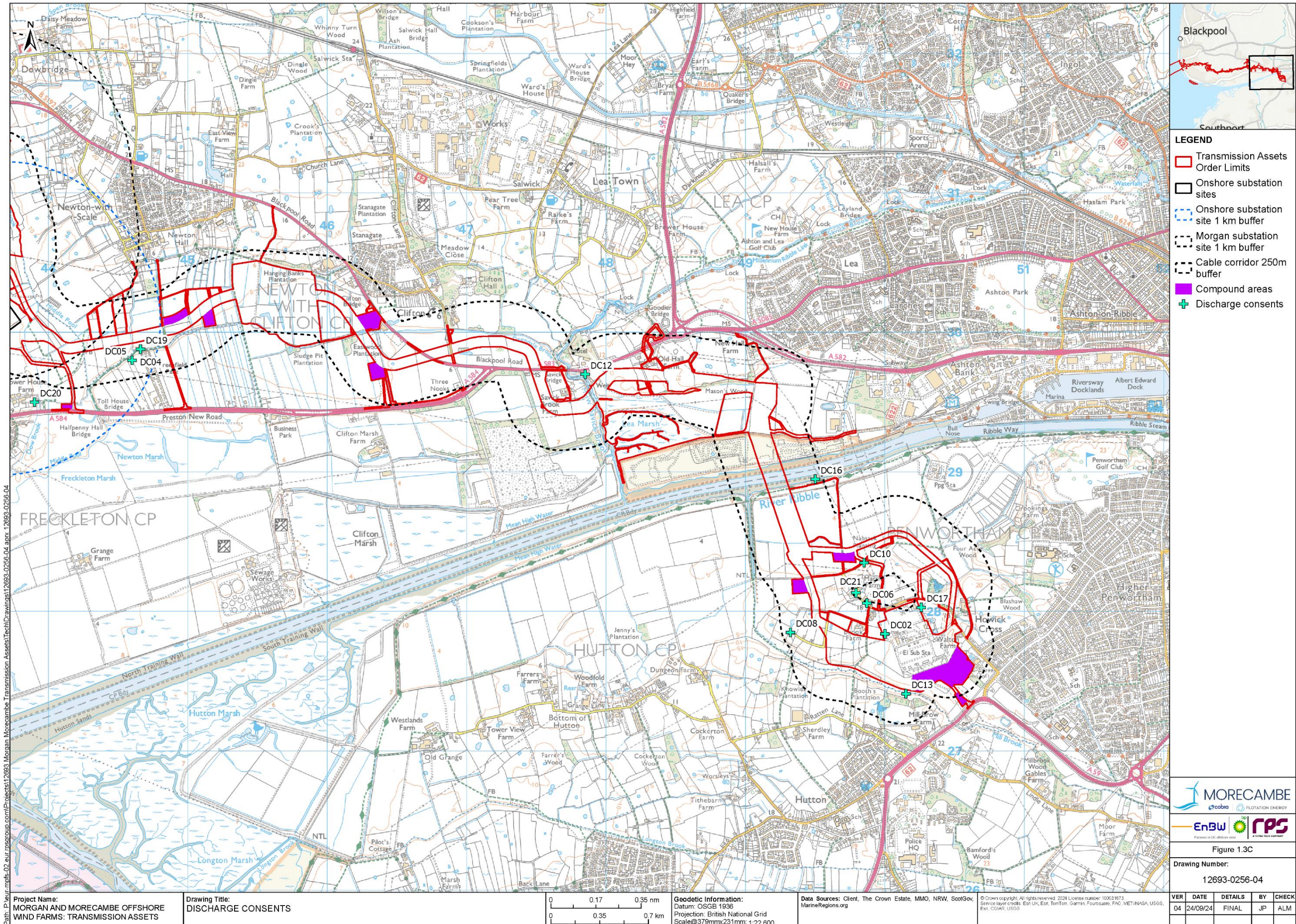
**Figure 1.3A: Discharge consents**





**Figure 1.3A: Discharge consents**





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**Project Name:**  
MORGAN AND MORECAMBE OFFSHORE WIND FARMS: TRANSMISSION ASSETS

**Drawing Title:**  
DISCHARGE CONSENTS

0 0.17 0.35 nm  
0 0.35 0.7 km

**Geodetic Information:**  
Datum: OSGB 1936  
Projection: British National Grid  
Scale@379mmx231mm: 1:22,600

**Data Sources:** Client, The Crown Estate, MMO, NRW, ScotGov, MarineRegions.org

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Service layer credit: Esri, UK, Esri, TomTom, Garmin, FourQuads, FNO, MET/MASA, USGS, Esri, CGIA, USGS

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cobra FLOTATION ENERGY

**EnBW** **rps**  
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**Figure 1.3C**

**Drawing Number:**  
12693-0256-04

| VER | DATE     | DETAILS | BY | CHECK |
|-----|----------|---------|----|-------|
| 04  | 24/09/24 | FINAL   | JP | ALM   |

**Figure 1.3A: Discharge consents**