

Hornsea Project Three
Offshore Wind Farm



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Environmental Statement:
Volume 6, Annex 2.3 – Surface Water Abstraction Licences, Discharge Consents and Pollution Incidents

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Hornsea 3
Offshore Wind Farm



Environmental Impact Assessment

Environmental Statement

Volume 6

Annex 2.3 – Surface Water Abstraction Licences, Discharge Consents and Pollution Incidents

Liability

This report has been prepared by RPS, with all reasonable skill, care and diligence within the terms of their contract with Orsted Power (UK) Ltd.

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This report is also downloadable from the Hornsea Project Three offshore wind farm website at:

www.hornseaproject3.co.uk

Ørsted

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Front cover picture: Kite surfer near a UK offshore wind farm © Orsted Hornsea Project Three (UK) Ltd., 2018.

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Acronyms

| Acronym | Description |
|---------|----------------------------------|
| EA | Environment Agency |
| HVAC | High Voltage Alternating Current |
| HVDC | High Voltage Direct Current |

Units

| Unit | Description |
|------|------------------|
| m | Metre (distance) |

1. Introduction

1.1 Purpose

1.1.1.1 This annex (annex 2.3) identifies the surface water abstraction licences, discharge consents and pollution incidents located within the hydrology and flood risk study area for Hornsea Three, as defined in volume 3, chapter 2: Hydrology and Flood Risk. The data contained within this annex has been used to inform the baseline and impact assessment of volume 3, chapter 2: Hydrology and Flood Risk as follows:

- Surface water abstraction licences are a good indication of how the surface watercourses in the hydrology and flood risk study area are utilised;
- Discharge consents within the hydrology and flood risk study area may affect the baseline quality of the receiving surface water; and
- Pollution incidents identify where the quality of watercourses within the hydrology and flood risk study area may have been affected by pollution.

1.1.1.2 Details of the licences, consents and incidents have been obtained from a commercial data supplier (Groundsure Limited) and local authorities relevant to Hornsea Three (North Norfolk District Council, Broadland District Council and South Norfolk District Council). The information is regulated by the Environment Agency (EA) and local authorities.

1.1.1.3 It is noted that pollution incidents are classified by the EA into one of four categories using their Common Incident Classification Scheme. The different categories of pollution incidents are defined in Table 1.1 below.

Table 1.1: Pollution Incident categories.

| Pollution Incident Category | Criteria |
|-----------------------------|--|
| 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. |

1.1.1.4 The surface water abstraction licences are set out in Table 1.2, discharge consents are set out in Table 1.3 and pollution incidents are set out in Table 1.4. All data is shown on Figure 1.1 (sheets 1 to 9). The distances in Table 1.1 to Table 1.4 are taken from the edge of the Hornsea Three onshore cable corridor.

Table 1.2: Surface water abstraction licences.

| Distance from Hornsea Three onshore cable corridor (m) | Easting | Northing | Licence Number | Operator | Abstraction Type | Source of Abstraction |
|--|---------|----------|-----------------|----------------------------|----------------------------|--|
| 228 | 610760 | 330490 | AN/034/0006/007 | C J C Lee (Saxthorpe) Ltd. | Spray Irrigation - Storage | River Bure at Little London, Norfolk |
| 166 | 613110 | 311470 | 7/34/12/*S/0066 | Honingham Aktieselskab | Spray Irrigation - Direct | River Tud at Honingham and Easton |
| 166 | 613110 | 311470 | AN/034/0012/002 | Honingham Aktieselskab | Spray Irrigation - Storage | River Tud at Hill Farm |
| 0 | 614030 | 308920 | 7/34/13/*S/0136 | Great Melton Farms Ltd | Spray Irrigation - Direct | River Yare, Marlingford |
| 185 | 616560 | 304970 | 7/34/13/*S/0259 | H W & H G Back | Spray Irrigation - Storage | River Yare, Ketteringham stream, Hethersett |
| 204 | 616540 | 304980 | 7/34/13/*S/0259 | H W & H G Back | Spray Irrigation - Storage | River Yare, Tributary of the Ketteringham Stream, Hethersett |

Table 1.3: Discharge consents.

| Distance from Hornsea Three onshore cable corridor (m) | Easting | Northing | EA Reference | Operator | Effluent Type | Receiving Environment |
|--|---------|----------|--------------|---------------------------------------|---|-----------------------------------|
| 129 | 609400 | 343000 | AEENF2435 | Anglian Water Services | Miscellaneous discharges – emergency discharges | Ditch tributary Waxham New Cut |
| 99 | 609400 | 342900 | AW4NF653 | Anglian Water Services | Sewage discharge – sewer storm overflow | Unknown tributary |
| 183 | 611200 | 339400 | PR4NF743X | Mr. I Wright | Mixed farming | River Glaven |
| 177 | 615136 | 306806 | PRENF16229 | Domestic Property (Single) | Final/treated effluent | Tributary of the River Yare |
| 158 | 613610 | 309130 | PRENF20419 | Domestic Property (Single) | Final/treated effluent | River Yare |
| 219 | 611479 | 335816 | NPSWQD007307 | Domestic Property (Multiple) | Final/treated effluent | Unnamed Drain |
| 136 | 615360 | 306390 | PRENF15395 | Sewage disposal works - other | Final/treated effluent | Tributary of the River Yare |
| 248 | 613150 | 309150 | PRENF14104 | Public Houses and Bars | Unspecified | Tributary of the River Yare |
| 80 | 613692 | 309148 | PR4NF1023X | Domestic Property (Single) | Final/treated effluent | River Yare |
| 133 | 613110 | 309285 | PRENF21048 | Sewage disposal works - other | Final/treated effluent | Ditch Tributary of the River Yare |
| 176 | 612800 | 317100 | PRENF13605 | Sewage disposal works - other | Final/treated effluent | River Wensum |
| 55 | 611510 | 339510 | PRENF20356 | Sewage disposal works - other | Final/treated effluent | River Glaven |
| 35 | 610700 | 343700 | AW4NF13BX | Sewage Disposal Works - water company | Final/treated effluent | Shingle Ditch the Sea |

| Distance from Hornsea Three onshore cable corridor (m) | Easting | Northing | EA Reference | Operator | Effluent Type | Receiving Environment |
|--|---------|----------|-------------------|--|---|-------------------------------------|
| 58 | 613740 | 309120 | <i>PRENF16586</i> | Domestic Property (Single) | Final/treated effluent | River Yare |
| 196 | 615930 | 306790 | <i>AW4NF1037</i> | Sewerage Network - Pumping Station - water company | Sewage discharges - Pumping Station - water Company | Unknown tributary of the River Yare |
| 293 | 612980 | 309170 | <i>PRENF00885</i> | Sewage disposal works - other | Final/treated effluent | Tributary of the River Yare |
| 192 | 615460 | 306370 | <i>PRENF15042</i> | Domestic Property (Single) | Final/treated effluent | Tributary of the River Yare |
| 141 | 615900 | 306800 | <i>AEENF2472</i> | Sewage Disposal Works - water company | Miscellaneous Discharge – Emergency Discharges | Ditch |
| 26 | 610500 | 330700 | <i>PR4NF1524</i> | Domestic Property (Single) | Final/treated effluent | River Bure |
| 172 | 613000 | 310000 | <i>PR4NF237X</i> | Sewage disposal works - other | Final/treated effluent | River Yare |

Table 1.4: Pollution incidents.

| Distance from Hornsea Three onshore cable corridor (m) | Reference No. | Easting | Northing | Incident Reference | Pollutant | Water Impact | Date |
|--|---------------|---------|----------|--------------------|-----------------------------------|------------------------|------------|
| 230 | 34 | 611680 | 339640 | <i>169308</i> | Oils and Fuel | Category 4 (No Impact) | 27/06/2003 |
| 12 | 35 | 622099 | 302186 | <i>196489</i> | Inert Materials and Wastes | Category 4 (No Impact) | 16/10/2003 |
| 24 | 36 | 616720 | 304990 | <i>133869</i> | Sewage Materials | Category 4 (No Impact) | 17/01/2013 |
| 24 | 37 | 616720 | 304990 | <i>133869</i> | Sewage Materials | Category 4 (No Impact) | 17/01/2003 |
| 40 | 38 | 612296 | 322426 | <i>23066</i> | Specific Waste Materials | Category 4 (No Impact) | 09/08/2001 |
| 215 | 39 | 613070 | 311010 | <i>137684</i> | Inorganic Chemicals/Products | Category 4 (No Impact) | 18/02/2003 |
| 262 | 40 | 613092 | 310866 | <i>62739</i> | Oils and Fuel | Category 4 (No Impact) | 08/03/2002 |
| 242 | 41 | 611520 | 336590 | <i>156913</i> | Agricultural Materials and Wastes | Category 4 (No Impact) | 08/05/2003 |
| 543 | 42 | 620125 | 303004 | <i>136271</i> | Sewage Materials | Category 3 (Minor) | 11/02/2003 |
| 452 | 43 | 620040 | 303080 | <i>187336</i> | Other Pollutant | Category 3 (Minor) | 04/09/2003 |

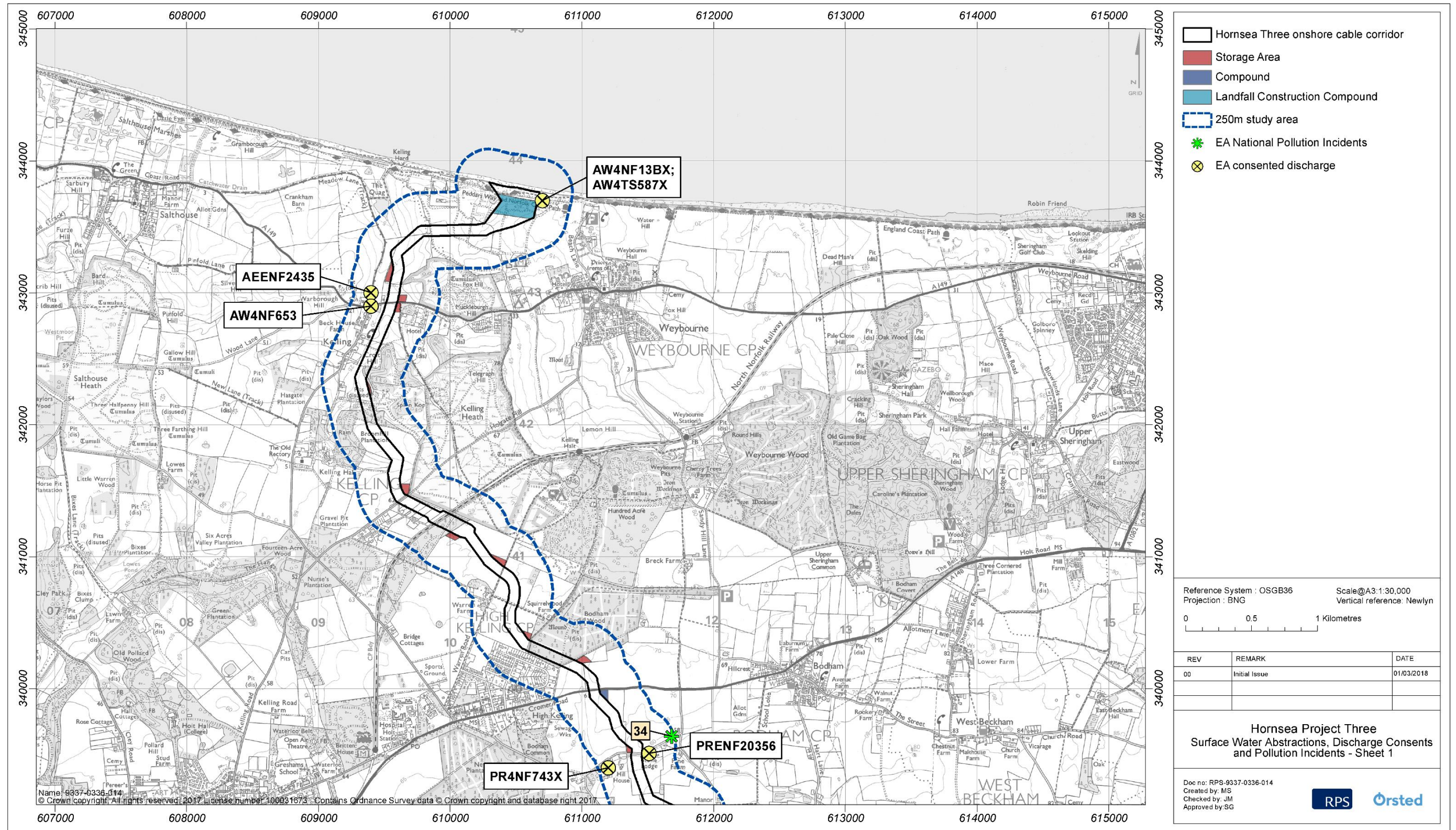


Figure 1.1: Surface water abstractions, discharge consents and pollution incidents.

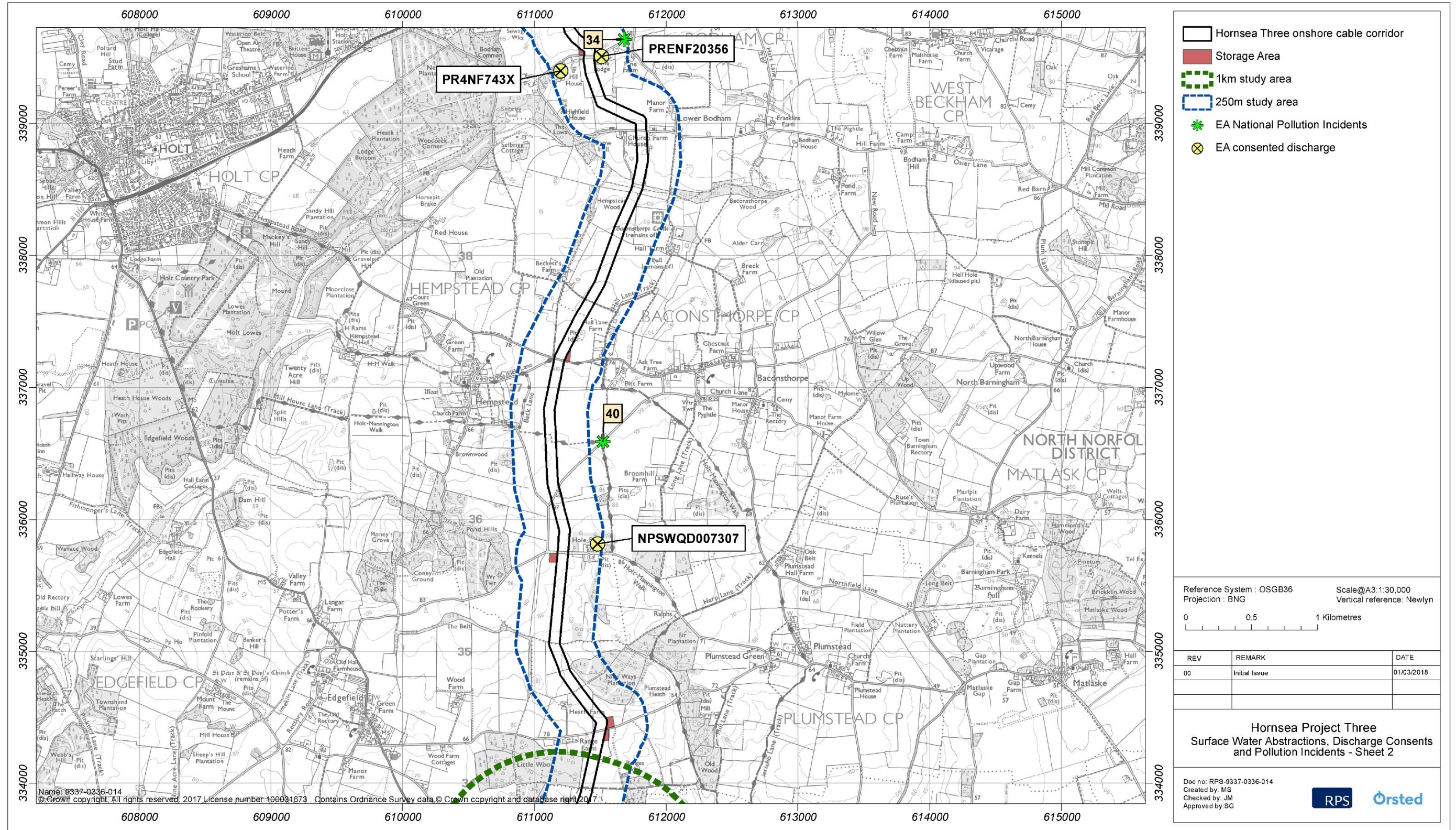


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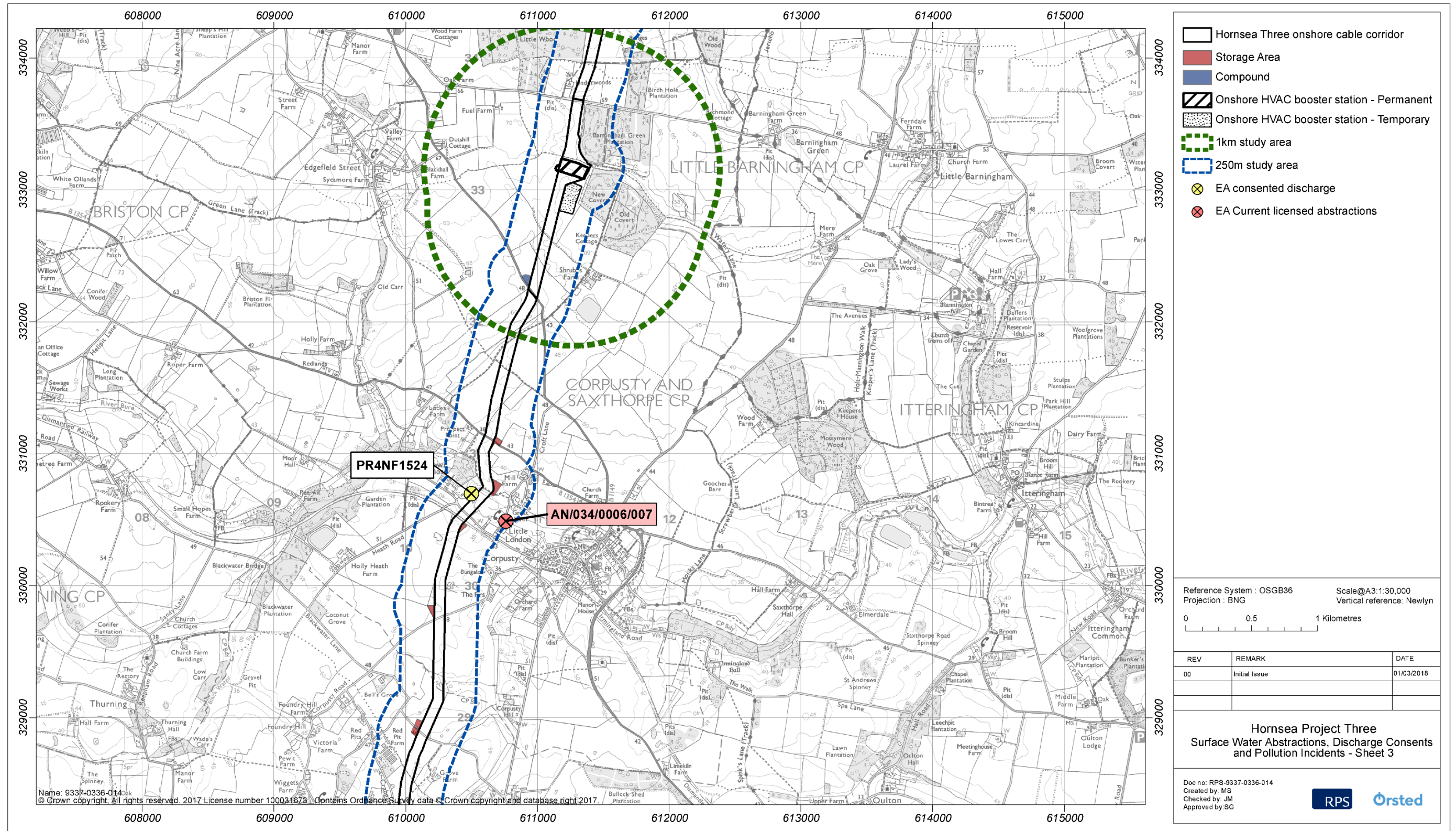


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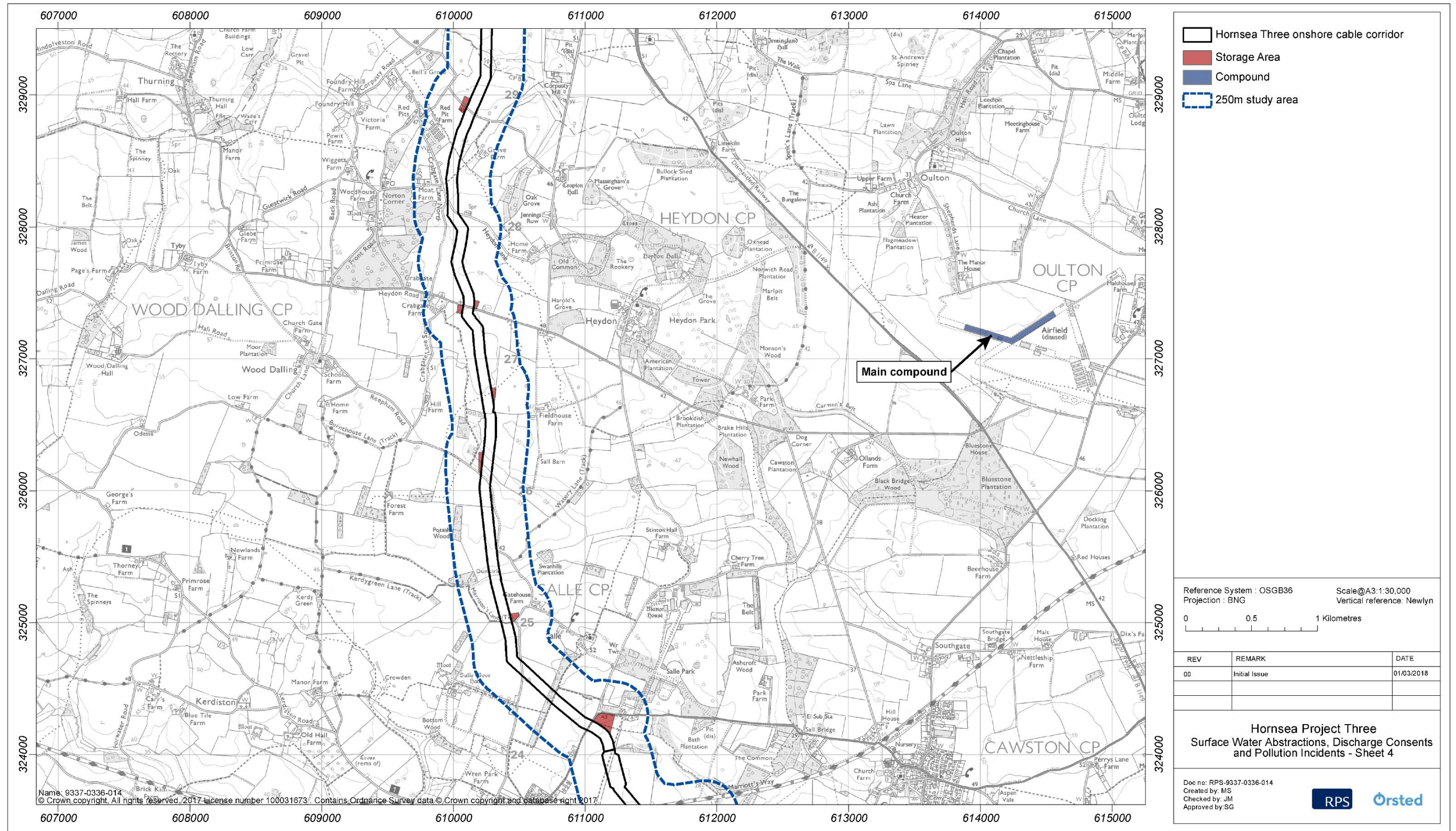


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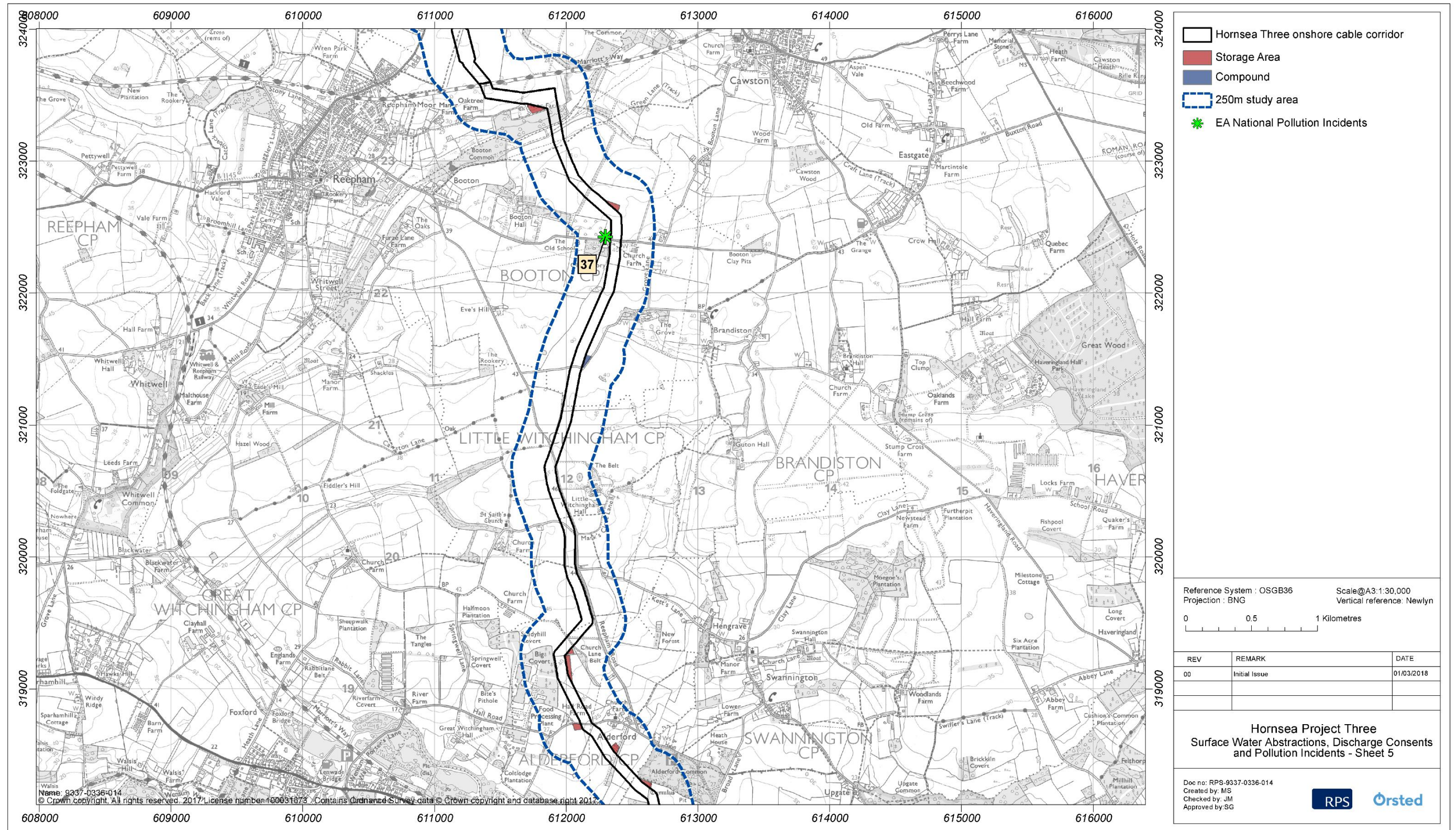


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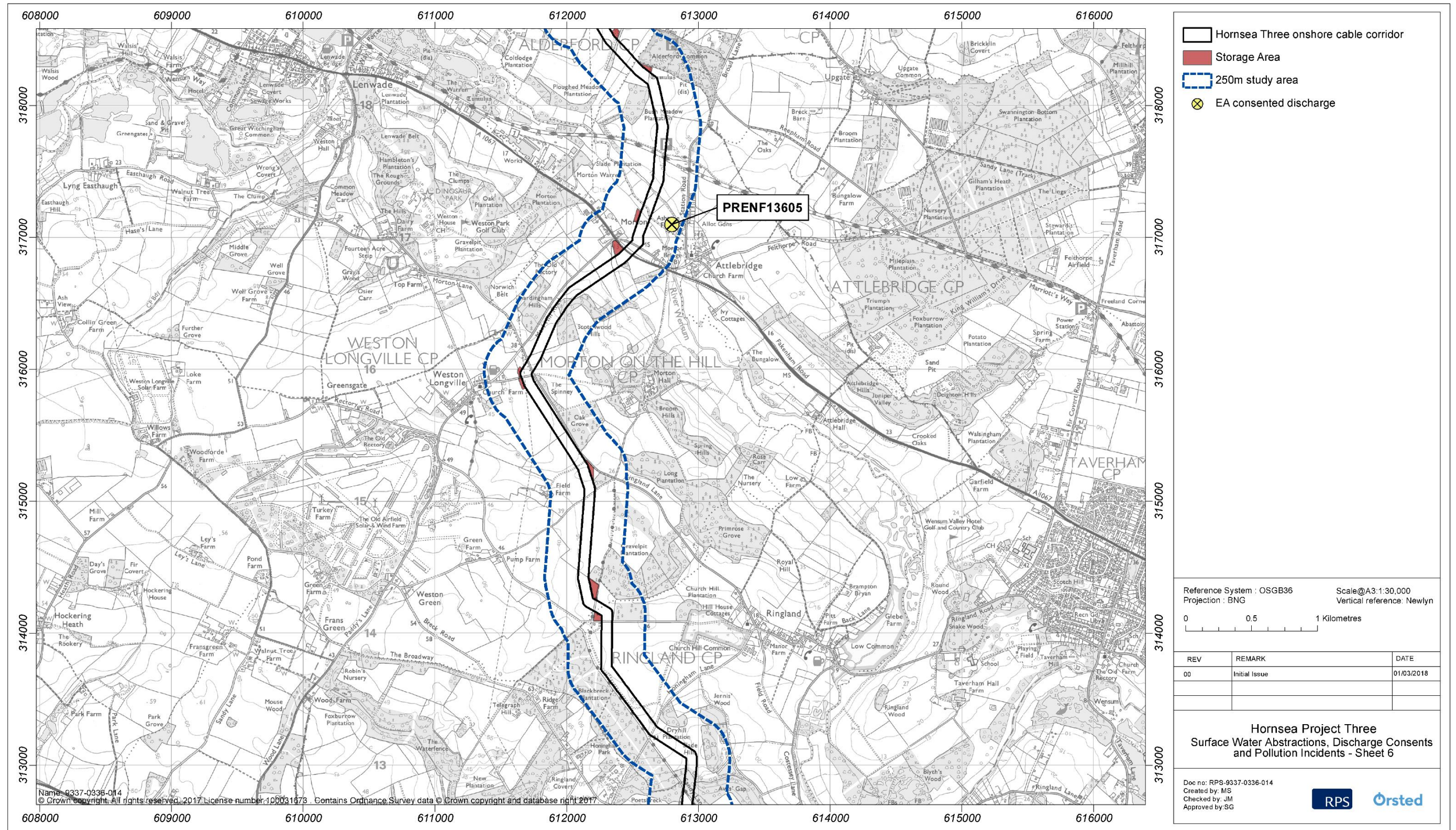


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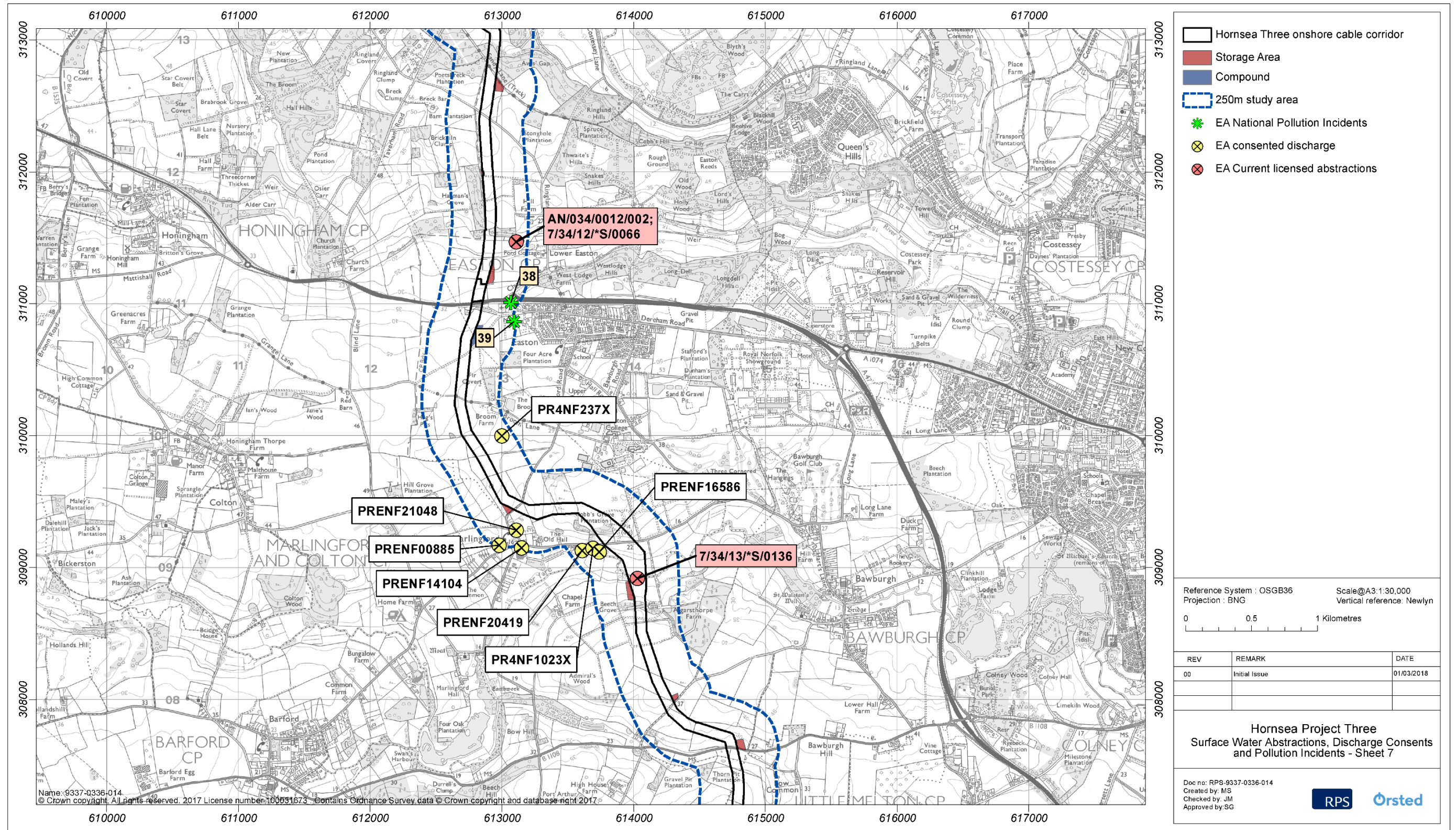


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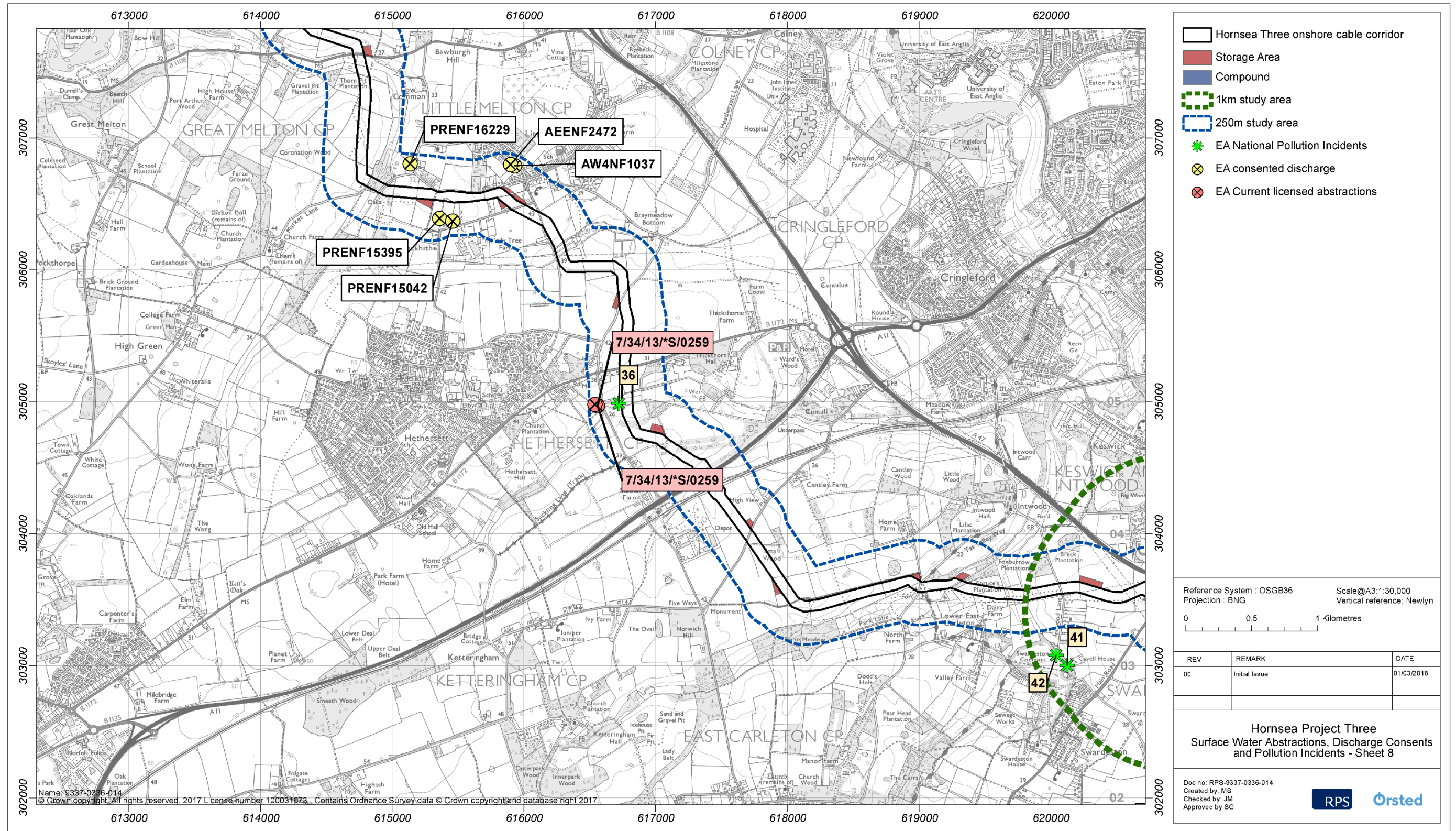


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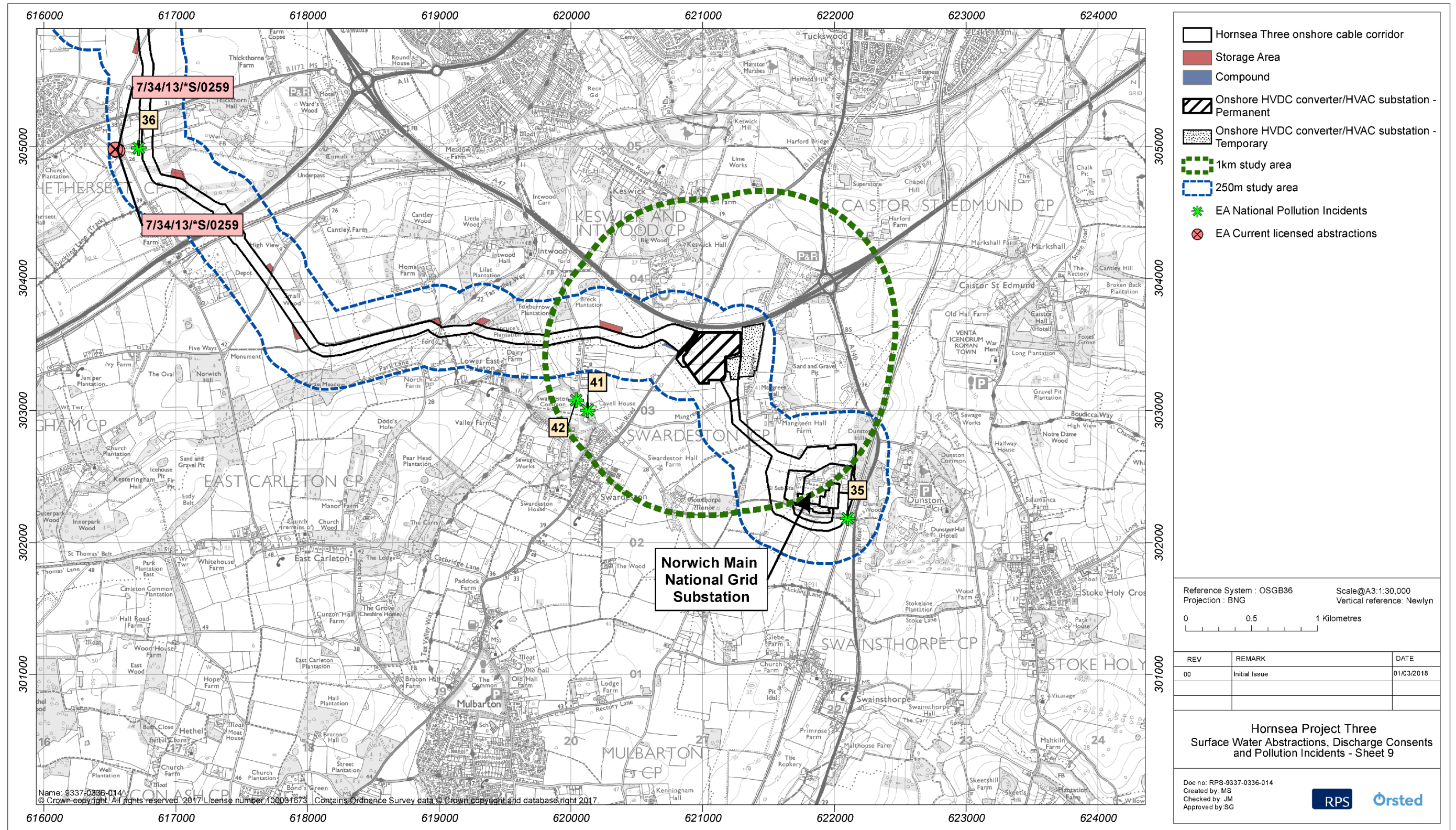


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