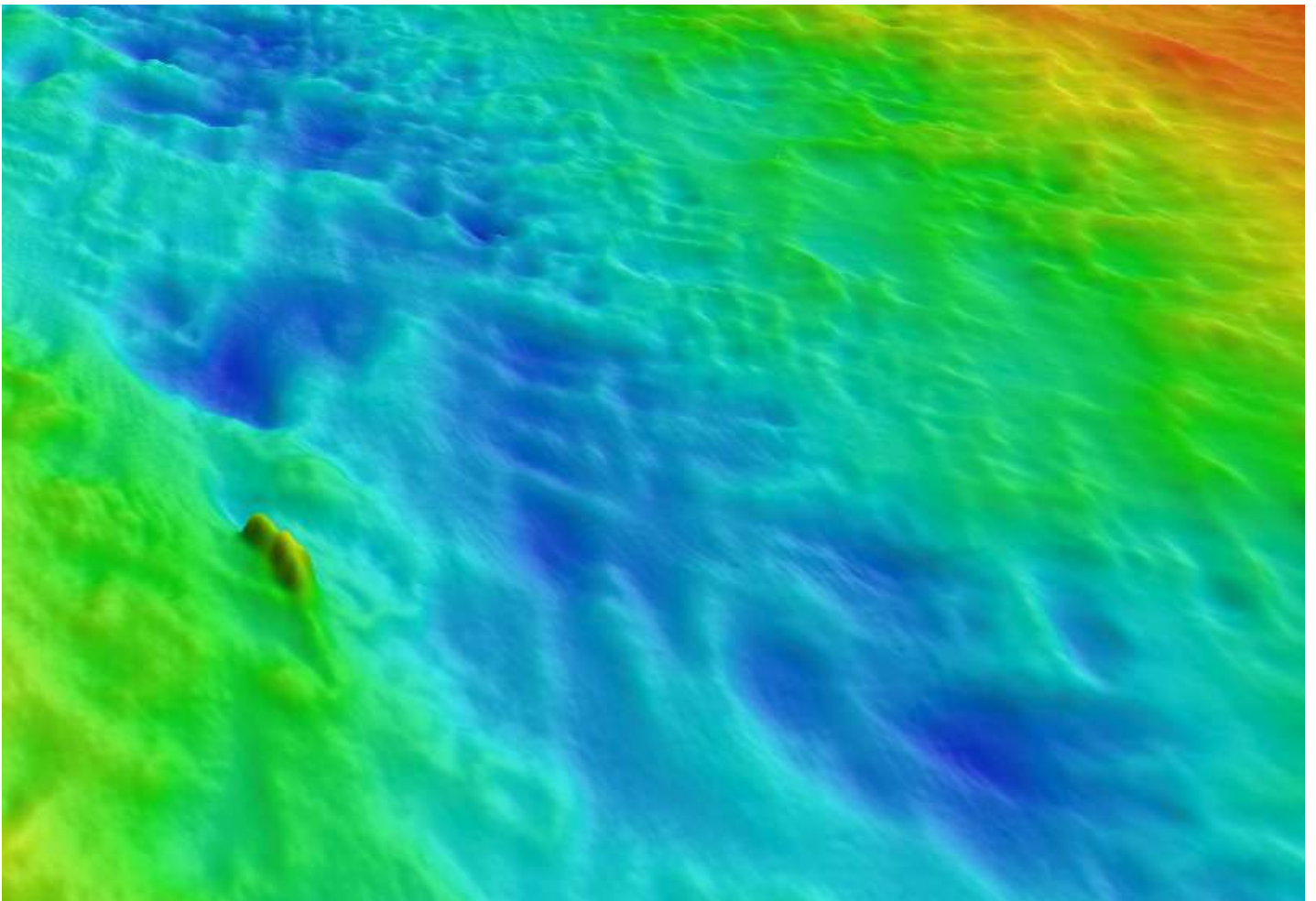




making sense of heritage

Race Bank Offshore Wind Farm

Archaeological Assessment of 2015 Geophysical Survey Data
Export Cable Route



Ref: 106940.06
February 2016



Race Bank Offshore Wind Farm

Archaeological Assessment of 2015 Geophysical Survey Data

Export Cable Route

Prepared for:
DONG Energy
5 Howick Place
London
SW1P 1WG

Prepared by:
Wessex Archaeology
Portway House
Old Sarum Park
Salisbury
SP4 6EB

www.wessexarch.co.uk




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Race Bank Offshore Wind Farm

Archaeological Assessment of 2015 Geophysical Survey Data

Export Cable Route

Summary

Wessex Archaeology was commissioned by DONG Energy to undertake an archaeological assessment of geophysical survey data acquired by Fugro EMU in 2015 for the Race Bank Offshore Wind Farm scheme. The proposed Race Bank Offshore Wind Farm site is located in The Wash, approximately 30 km east of Chapel St Leonards in Lincolnshire and approximately 30 km north of Wells-next-the-Sea on the north Norfolk coast. The survey area focussed on the full length of the export cable routes, the majority of turbine locations, all of the inter-array cables and a previous version of the high voltage interlink cable. This report focusses on the export cable route only.

Wessex Archaeology has previously carried out four archaeological assessments of geophysical data over the proposed Race Bank Offshore Wind Farm and areas of the associated export cable route corridors. The most recent assessment reviewed geophysical data acquired in 2012 over a 50m buffer around a previous layout of the export cable route and five previously assigned Archaeological Exclusion Zones (AEZs) that overlapped with this area (WA 2015). Two AEZs (**7040** and **7043**) were removed as a result of this assessment.

The Archaeological Study Area (ASA) for the current assessment comprises a 50m buffer around the current export cable routes (dated 7th August 2015). There are no changes to the two AEZs that intersect the current ASA (**6026** and **6516**). They were not fully covered by the 2012 datasets and the 2015 datasets do not provide any additional coverage. However, an additional AEZ has been created around a possible wreck (**70802**). Anomalies situated outside the ASA have not been considered in this assessment and hence all other AEZs remain current and unaffected by this study.

The 2015 geophysical survey comprised multibeam bathymetry, sidescan sonar and magnetometer data acquisition across the whole of the export cable routes to Unexploded Ordnance (UXO) survey specifications. This assessment follows on directly from the assessment of 2012 data and results of the current assessment are consolidated with those of the previous one. Sidescan sonar and multibeam bathymetry data were only assessed in areas of the ASA for which there was no 2012 data assessment owing to a lack of data coverage or alteration of export cable routes. The 2015 magnetometer data were assessed over the whole ASA because the 2012 magnetometer data were not acquired to UXO specifications and were of much lower spatial resolution.

In total 687 anomalies have been identified as being of possible archaeological interest within the ASA with only **70802** assigned an A1 archaeological discrimination. The remaining 686 anomalies were discriminated as A2 and no further AEZs are recommended for these anomalies within the ASA at this time. However, avoidance of these features through micro-siting is recommended if they are to be directly impacted by development in the future. If avoidance is not possible then groundtruthing of these features is recommended to establish whether they are of archaeological interest and the best course for mitigation. If the export cable routes are altered significantly then further assessment of geophysical data may be required.



Once groundwork operations commence it is recommended that any objects of possible archaeological interest which are recovered should be reported using the established Protocol for Archaeological Discoveries: Offshore Renewables Projects (The Crown Estate 2014). The Written Scheme of Investigation (Second Revision, WA 2014) should be referred to for full details of necessary archaeological monitoring and mitigation as required by the Marine Licence conditions.



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Acknowledgements

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The geophysical assessment was carried out by Abby Mynett. The figures were produced by Kenneth Lymer and geophysical quality control was carried out by Dr Stephanie Arnott. The project was managed for Wessex Archaeology by Caroline Budd.



Race Bank Offshore Wind Farm

Archaeological Assessment of 2015 Geophysical Survey Data

Export Cable Route

1 INTRODUCTION

1.1 Background

- 1.1.1 Wessex Archaeology (WA) was commissioned by DONG Energy to carry out an archaeological assessment of geophysical survey data collected in 2015 from the site of the proposed Race Bank Offshore Wind Farm and associated offshore cable routes.
- 1.1.2 The Race Bank Offshore Wind Farm site lies in The Wash approximately 30km east of Chapel St Leonards in Lincolnshire and approximately 30km north of Wells-next-the-Sea on the north Norfolk coast (**Figure 1**). The wind farm will consist of up to 91 x 6.3MW turbines, to be installed on the Race Bank and North Ridge sandbanks in water depths of 4m to 22m below lowest astronomical tide (LAT). The footprint of the wind farm is an irregular polygon with an area of approximately 62km² (WA 2015). The wind farm will be connected to the mainland by offshore export cables. The export cables consist of two cables running in a corridor to a landfall on the north Norfolk coast in The Wash. The export cables will be approximately 70km in length and the landfall will be approximately 1km east of the mouth of the River Nene (WA 2015).
- 1.1.3 The Archaeological Study Area (ASA) for this assessment comprises a 50m buffer around the current export cable routes, as supplied by DONG and dated 7th August 2015. Any anomalies that are situated outside of the ASA will not be considered in this report.
- 1.1.4 This assessment follows on from the previous review of geophysical data acquired in 2012 undertaken by WA in early 2015 (WA 2015). That review highlighted areas of the previous export cable route corridor ASA that were not covered by the existing 2012 geophysical data and hence no archaeological assessment was completed of those areas. Since that assessment the export cable routes have changed and as such some previous anomalies identified to have archaeological potential have been removed from the final gazetteer. The current ASA therefore also contains areas outside the previous ASA for which no archaeological assessment was undertaken previously.
- 1.1.5 This current review includes an archaeological assessment of 2015 UXO magnetometer data across the whole of the ASA. This is necessary because the data acquired in 2012 were not acquired to UXO specifications and were therefore of much lower spatial resolution. In addition, 2015 sidescan sonar and multibeam bathymetry data were assessed where necessary to fill gaps identified in the 2012 datasets or where the routes have been altered and the current ASA lies outside the previous ASA.
- 1.1.6 The 2015 geophysical surveys were undertaken by Fugro EMU and Spectrum GeoSurvey. All the data acquired over the export cable route corridor were collected by Fugro EMU. Spectrum Geosurvey only conducted survey works in the array site. The Fugro EMU data cover the entirety of the ASA except the southern 1.6km that lie on land.



1.1.7 The results of the assessment of 2012 data are amalgamated with the results of the assessment of 2015 data to give a complete overview of the features with archaeological potential within the ASA.

1.2 Previous Work

1.2.1 Wessex Archaeology has been involved in the Race Bank Offshore Wind Farm development since 2006 and has written a substantial number of reports and Environmental Statement Chapters. These are listed in full in the Written Scheme of Investigation (WSI) (Second Revision WA 2014).

1.2.2 Previous archaeological assessments of geophysical data by WA for this development are summarised in **Table 1** below.

WA Project ID	Date	Project Description
62550	2007	Archaeological Assessment of Geophysical Data – Wash Cable Route Corridor. This includes the proposed cable routes for the Lincs, (rejected) Docking Shoal and Race Bank OWFs
62554	2008	Archaeological Assessment of Geophysical Data – Race Bank OWF footprint plus segments of the export cable route that fall outside the data already assessed
62556	2010	Archaeological Assessment of Marine Geophysical Data and Archaeological Impact Assessment – Additional areas in The Wash
106940.03	2015	Archaeological Assessment of Geophysical Survey Data: Export Cable Route – Assessment of 2012 geophysical data

Table 1: Summary of previous work undertaken by WA

1.2.3 Any anomalies identified in the four previous archaeological assessments of geophysical survey data that are located within the ASA were to be considered in this assessment. Any anomalies that are situated outside of the ASA will not be considered in this report.

1.2.4 Two previously assigned AEZs encroach upon the ASA (**Table 2**). The 2015 survey data do not cover these locations and hence they are retained unchanged.

WA ID	UTM E	UTM N	Description	LxBxH (m) / Amp (nT)	Interpretation / Name	Exclusion Zone (m)	From dataset
6026	344460	5895086	Anomaly	17.8 x 11.6	Dark reflector. Possible wreck	100	62550
6516	331521	5883580	Wreck	Unknown	Live UKHO wreck	100	62550

Table 2: AEZs within the current ECR

1.3 Aims and Objectives

1.3.1 The aim of this review was to undertake an archaeological assessment of 2015 geophysical survey data acquired over the Race Bank Offshore Wind Farm export cable route corridor. A full assessment of the magnetometer data was undertaken and sidescan sonar and bathymetry data were assessed over gaps identified in the previous 2012 survey data and in areas not covered by the assessment of 2012 data (WA 2015). The results were to be integrated with those of the previous assessments that fall within the ASA. The objectives were as follows;



- To assess the 2015 geophysical survey data acquired by Fugro EMU and provided by DONG Energy in order to identify any material of possible archaeological and cultural heritage significance present within the ASA;
- To compare the results of the geophysical interpretation with the results of previous archaeological assessments of geophysical data and historic records within the ASA;
- To update the interpretation of the results of the previous studies where necessary based on their appearance in the 2015 data. This will include updating the archaeological discrimination and hence removing from the final gazetteer of anomalies in the ASA those that are now interpreted as non-anthropogenic in origin;
- To recommend mitigation measures for any potential archaeological or cultural heritage assets newly identified within the ASA, including the addition of new AEZs where necessary;
- To confirm whether AEZs currently in place from previous studies should be retained unaltered or whether they should be updated or removed.

2 METHODOLOGY

2.1 Data Sources

- 2.1.1 Wreck and obstruction data within the development area were obtained from the United Kingdom Hydrographic Office (UKHO). Records located within the ASA were integrated with the geophysical results as outlined in **Section 2.4**.
- 2.1.2 Any sites found to be outside the ASA are deemed beyond the scope of the current project and are subsequently not included in this report.
- 2.1.3 The geophysical survey data comprised sidescan sonar, magnetometer and multibeam bathymetry datasets. Each of these were assessed for their quality and rated using the criteria listed in **Table 3**.

Data Quality	Description
Good	Data which are clear and unaffected by weather conditions or sea state. The dataset is suitable for the interpretation of standing and partially buried metal wrecks and their character and associated debris field. These data also provide the highest chance of identifying wooden wrecks and debris.
Average	Data which are affected by weather conditions and sea state to a slight or moderate degree. The dataset is suitable for the identification and partial interpretation of standing and partially buried metal wrecks, and the larger elements of their debris fields. Wooden wrecks may be visible in the data, but their identification as such is likely to be difficult.
Variable	This category contains datasets with the quality of individual lines ranging from good to average to below average. The dataset is suitable for the identification of standing and some partially buried metal wrecks. Detailed interpretation of the wrecks and debris field is likely to be problematic. Wooden wrecks are unlikely to be identified.

Table 3: Criteria for assigning data quality rating

- 2.1.4 The sidescan sonar data have been rated as 'Variable' using the above criteria table, with some lines exhibiting good quality data and others being below average quality with some evidence of poor weather conditions or sea state. Some lines also contain bad navigation



data. The intertidal survey data were acquired by a pseudo sidescan sonar system between KP1.6 to KP4.0 and were of a notably lower quality than that collected by the standard sidescan sonar towfishes over the rest of the survey area. Overall, excluding the data in the intertidal area, the data were generally of good quality for archaeological assessment.

- 2.1.5 The magnetometer data have been rated as 'Variable' from an archaeological perspective using the above criteria. A number of the data files have been affected by noise and some background variation is visible throughout the ASA. Frequent spiking was seen throughout the data files and some lines display noise created by alterations in tow cable length. In addition some lines of data, a relatively small proportion of the dataset, were missing navigation information and could not be processed or interpreted.
- 2.1.6 The multibeam bathymetry data have been rated as 'Good' using the above criteria. The data quality and resolution of 0.5m was found to be of a high standard and suitable for the archaeological assessment of seabed objects and debris.
- 2.1.7 WA processed and assessed 100% of the magnetometer data that fell within the ASA. The sidescan sonar and bathymetry data were processed and interpreted only within gaps identified in the previous assessment within the current ASA (**Figures 2 - 8**).

2.2 Geophysical Data – Technical Specifications

- 2.2.1 The Fugro EMU survey was undertaken by three separate survey vessels, all of which acquired sidescan sonar, multibeam bathymetry and magnetometer data. Two types of survey were undertaken, an Environmental and Engineering (E&E) survey and an Unexploded Ordnance (UXO) survey. Magnetometer data were only acquired on the UXO surveys. The UXO surveys included the full extents of the export cable routes. All sidescan sonar data were provided to WA as .*xtf* files, the magnetometer data were provided as .*csv* files and the multibeam bathymetry data were provided as .*txt* files referenced to LAT.
- 2.2.2 The *Fugro Seeker* conducted a UXO survey of a section of the export cable route corridor from KP4 to KP8 between 14th and 27th April 2015. The sidescan sonar equipment used by the *Fugro Seeker* was a Klein 3000 towfish operating at both low (100kHz) and high (500kHz) frequencies. The data were acquired using a range of 25m with an irregular line spacing ranging from 3m to 10m in places. Two Geometrics G-882 magnetometers were used to acquire magnetometer data and the multibeam bathymetry data were acquired using a Reson Seabat 7125 dual head system (operating at 400kHz). USBL systems were used for positioning each of the three towed sensors (Fugro EMU 2015a).
- 2.2.3 The vessel *Victor Hensen* undertook both E&E and UXO survey over the period of 23rd February to 17th April 2015. The UXO survey was executed across various sections of the export cable route, inter-array cables and a number of planned turbine locations.
- 2.2.4 An Edgetech 4200 sidescan sonar towfish was deployed by *Victor Hensen* operating at 300kHz and 600kHz frequencies and using a range of 25m for the UXO survey with line spacings of approximately 5m to 10m. Magnetometer data were acquired using four Geometrics G-882 magnetometers with towpoints spaced 5m apart laterally. The line spacing varies from 1m to 10m. Multibeam bathymetry data were acquired using a Reson Seabat 7125 dual head system operating at 400kHz. The vessel used a USBL positioning system for the sidescan sonar towfish and the magnetometers (Fugro EMU 2015a, 2015b & 2015c).



- 2.2.5 The RV *Discovery* conducted a UXO and E&E survey between 23rd February and 20th April 2015. The UXO survey was undertaken along the majority of the export cable route, parts of the inter-array cable routes and a number of the planned turbine locations.
- 2.2.6 The sidescan sonar and magnetometer equipment used aboard *Discovery* were the same as those used aboard the *Victor Hensen*. The line spacings and acquisition parameters were also the same. A dual-head Kongsberg EM 2040 system was used to acquire the multibeam bathymetry data.
- 2.2.7 The nearshore geophysical data acquisition was undertaken for Fugro Aperio by Fugro EMU on board the *Argosy* between 21st March 2015 and 22nd April 2015. The vessel collected multibeam bathymetry, sidescan sonar and magnetometer data from KP1.6 to KP4.0 (Fugro EMU 2015d).
- 2.2.8 The multibeam bathymetry and pseudo sidescan sonar data were acquired using a Kongsberg GeoAcoustics Geoswath Plus compact system. The sidescan sonar data were acquired using frequencies of 120kHz and 500kHz. The magnetometer data were acquired using two Geometrics G-882 magnetometers towed from towpoints 5m apart and each was mounted on a custom built aluminium frame (Fugro EMU 2015d). Positioning was provided by a Fugro StarPack GNSS receiver with StarFix HP differential corrections.

2.3 Geophysical Data – Processing

- 2.3.1 The high frequency .*xtf* sidescan sonar files located within the data gaps identified in the ASA were processed by WA using Coda Geosurvey software. This allowed the data to be replayed with various gain settings in order to optimise the quality of the images. The data were initially scanned to give an understanding of the geological nature of the site and were then interpreted for any objects of possible anthropogenic origin. This involves creating a database of anomalies within Coda by tagging individual features of possible archaeological potential, recording their positions and dimensions and acquiring an image of each anomaly for future reference.
- 2.3.2 A mosaic of the sidescan sonar data is produced during this process to assess the quality of the sonar towfish positioning. The survey lines are smoothed, and the navigation corrected. This process allows the position of anomalies to be checked between different survey lines and for the layback values to be further refined if necessary.
- 2.3.3 The form, size and/or extent of an anomaly is a guide to its potential to be an anthropogenic feature and therefore of archaeological interest. A single small but prominent anomaly may be part of a much more extensive feature that is largely buried. Similarly, a scatter of minor anomalies may define the edges of a buried but intact feature, or it may be all that remains as a result of past impacts from, for example, dredging or fishing.
- 2.3.4 The magnetometer data files were processed in Geometrics MagPick software. It was necessary to split the received data files into smaller files to enable them to be processed. The assessment was carried out in order to identify any discrete magnetic contacts which could represent buried debris or structures such as wrecks.
- 2.3.5 The software enables both the visualisation of individual lines of data and the gridding of data to produce a magnetic anomaly map. The data were smoothed to try and eliminate any observed noise, a trend was then fitted to the resulting data and the trend values subtracted from the smoothed values. This was carried out in an attempt to remove natural variations in the data (such as diurnal variations in magnetic field strength and



changes in geology). The processed data were then gridded to produce a map of magnetic anomalies. Individual anomalies were tagged and images taken in a similar process to that undertaken for the sidescan sonar data.

- 2.3.6 The multibeam bathymetry data were analysed to identify any unusual seabed structures that could be shipwrecks or other anthropogenic debris. The data were gridded at 0.5m and analysed using Fledermaus software, which enables a 3-D visualisation of the acquired data and geo-picking of seabed anomalies.

2.4 Geophysical Data – Anomaly Grouping and Discrimination

- 2.4.1 The previous section describes the initial interpretation of all available geophysical datasets which were conducted independently of one another. This inevitably leads to the possibility of any one object being the cause of numerous anomalies in different datasets and apparently overstating the number of archaeological features in the study area.

- 2.4.2 To address this fact the anomalies were grouped together along with any previously identified features from past investigations and UKHO records of wrecks and obstructions that fall within the ASA. This allows one ID number to be assigned to a single object for which there may be, for example, a UKHO record, a magnetic anomaly and multiple sidescan sonar anomalies.

- 2.4.3 Once all geophysical anomalies and desk-based information have been grouped, a discrimination flag is added to the record in order to discriminate against those which are not thought to be of an archaeological concern. These flags are as follows:

Non-Archaeological	U1	Not of anthropogenic origin
	U2	Known non-archaeological feature
	U3	Non-archaeological hazard
Archaeological	A1	Anthropogenic origin of archaeological interest
	A2	Uncertain origin of possible archaeological interest
	A3	Historic record of possible archaeological interest with no corresponding geophysical anomaly

Table 4: Criteria discriminating relevance of seabed features to proposed scheme

- 2.4.4 The results of the assessment of 2015 data were compared and added to the results of the previous geophysical assessments that fall within the ASA as described above. This enabled interpretations of these features seen in the higher resolution 2015 data to be refined and data gaps from previous assessments to be filled in. A consolidated gazetteer of features from all available assessments was produced.

- 2.4.5 Previously identified magnetic anomalies not observed in the more recent and much higher resolution 2015 UXO data have not been included in the final gazetteer as it is likely that the sources of these anomalies no longer remain at these positions. This may have occurred for a variety of reasons, including the impact on objects by activities such as fishing or anchoring and the spatially lower resolution data assessed previously. Sidescan sonar anomalies interpreted in earlier datasets that have been observed again and interpreted as non-anthropogenic as a result of the higher resolution 2015 data have been removed from the gazetteer. Sidescan sonar anomalies observed in earlier datasets and not detected again in the 2015 data have been retained unchanged if the appearance of the seabed suggests that they may have become buried by marine sediments.



- 2.4.6 Two AEZs, **6026** and **6516**, intersect the ASA. The features at the centres of these AEZs and the full extents were not covered by the 2012 geophysical data. The 2015 survey data provide no further coverage and hence these AEZs are retained unchanged.
- 2.4.7 Any previous features that have been identified in the 2015 data have had their positions and attributes updated with the new appearance and position. Features from previous projects have retained their original ID numbers; these are 70000 numbers from the assessment of 2012 data and 6000 or 7000 numbers from earlier assessments. Features solely identified from the current assessment have continued with unique 70000 numbers, starting at 70200.
- 2.4.8 The grouping and discrimination of information at this stage is based on all available information and is not definitive. It allows for all features of potential archaeological interest to be highlighted, while retaining all the information produced during the course of the geophysical interpretation and desk-based assessment for further evaluation should more information become available.

2.5 Coordinate System

- 2.5.1 All sidescan sonar data provided were in geodetic coordinates assumed to be ETRS89 as required by DONG (DONG Energy 2014). All magnetometer and multibeam bathymetry datasets were provided in projected coordinates assumed to be ETRS89 UTM31N.
- 2.5.2 All project outputs, including the gazetteer, are provided in ETRS89 UTM31N as required by DONG Energy.

3 RESULTS

3.1 Seabed Features Assessment

- 3.1.1 An archaeological assessment of 2015 geophysical survey data within the ASA was undertaken by WA (**Figure 1**) and the results described below. A total of 1306 individual anomalies were identified in the 2015 geophysical datasets by WA within the ASA. A large number of these (446) were interpreted during the anomaly grouping and discrimination stage of analysis to be probable natural seabed features such as boulders and cobbles on the seabed and natural magnetic fluctuations. In total 602 seabed features from the 2015 geophysical data have been identified as being of potential archaeological interest within the ASA.
- 3.1.2 The previous four archaeological assessments undertaken by WA (2007, 2008, 2010 & 2015) identified a total of 112 features within the current ASA (see **Section 1.2**). These were grouped with the results of the 2015 data and assigned a new archaeological potential rating where applicable using all of the information available. The original ID numbers from the previous assessments were retained.
- 3.1.3 In total 22 of the anomalies from previous assessments have been deemed to be possible natural geology and hence no longer appear in the final gazetteer of seabed features of archaeological potential. Features originally observed in sidescan sonar data that have not been seen in the 2015 data and may have been buried by mobile sediments since the data were acquired for the earlier assessment have been retained. Three features (**6034**, **6308** and **7005**) that were identified in earlier assessments but were not covered by the 2012 sidescan sonar data were revisited in the 2015 data and no anomalies were identified. These features have retained their A2 archaeological potential rating.



- 3.1.4 In total 687 features of archaeological potential have been identified within the ASA by WA. These are discriminated as shown in **Table 5**.

Archaeological Discrimination	Quantity	Interpretation
A1	1	Anthropogenic origin of archaeological interest
A2	686	Uncertain origin of possible archaeological interest
A3	0	Historic record of possible archaeological interest with no corresponding geophysical anomaly
Total	687	

Table 5: Features of archaeological potential within the ASA

- 3.1.5 Furthermore, these anomalies can be classified by probable type, which can further aid in assigning archaeological potential and importance.

Feature Classification	Quantity
Mound	1
Debris	39
Debris Field	3
Seafloor Disturbance	1
Bright Reflector	2
Dark Reflector	28
Magnetic	613
Total	687

Table 6: Types of feature identified

- 3.1.6 Selections of these anomalies are discussed below in detail. A full gazetteer of all anomalies is supplied in **Appendix 1** and the anomalies are illustrated in **Figures 2 – 11**. As there are so many (613) magnetic only anomalies these are not all labelled in the figures showing the location of anomalies within the ASA (**Figures 2 – 8**) as to do so would require very many more figures covering much smaller sections of the ASA. The magnetic only anomalies with amplitudes of below 50nT (439 of them) are therefore shown unlabelled. These anomalies are likely to be of lower archaeological potential given their smaller amplitude. All are included in the gazetteer in **Appendix 1**.

3.2 Seabed Features Discriminated as A1

- 3.2.1 One A1 feature of archaeological potential (**70802**) has been identified within the ASA. This was interpreted as a possible wreck by MMT who performed a targeted Remotely Operated Vehicle (ROV) survey over a magnetic anomaly (FE15_MC_8024) here in July 2015. Three pieces of ferrous debris were discovered by MMT; two were located on the seabed and one buried, the latter was excavated in September 2015 (MMT 2015). An assessment of the ROV video footage conducted by WA (2016) concluded that the remains are not clearly identified and it is not certain whether they are related to a wreck or whether they are modern debris.
- 3.2.2 In the 2015 geophysical data the feature was identified in all of the datasets (**Figures 5 and 11**) and interpreted as a mound having dimensions of 15m x 2.8m x 1.1m with a large magnetic anomaly of 237nT indicating it contains ferrous material. In the bathymetry data the feature is visible as a large linear mound orientated northeast to southwest and located on an uneven area of the seabed. An 8m section of the feature is clearly more upstanding than the rest. In the sidescan sonar data no particular structure is visible but the feature has a number of small dark reflectors with height in a linear alignment which



may be debris and the mound has a distinct and bright shadow. The remainder of the feature is much lower and consists of a build-up of sediment that may contain further buried debris. The feature is a possible wreck that appears at least partially buried. There is no corresponding UKHO record of a wreck or obstruction here and if the feature is a wreck its identity is unknown.

3.3 Seabed Features Discriminated as A2

- 3.3.1 There are 686 features located across the ASA that have been discriminated as having an A2 archaeological potential rating.
- 3.3.2 In total 39 pieces of debris have been identified across the ASA (see **Figures 9** and **10** for data examples). The largest of these is **7027** with dimensions of 31.5m x 4.1m x 0.8m. This was identified in the 62556 data assessment of 2009 data (WA 2010) as a distinct object, possibly a section of fishing gear. This was covered by the 2012 data however no anomaly was identified suggesting that it may have since been covered by mobile sands, this location was not revisited in the 2015 data.
- 3.3.3 Feature **70011** is a small piece of debris identified in the 2012 and 2015 geophysical data. This feature may be associated with possible wreck remains **70802** situated approximately 30m to the east. The debris has dimensions of 2.5m x 1.4m x 0.4m and magnetic amplitude of 17nT suggesting it contains some ferrous material. It is seen in the sidescan sonar data as a discrete, right angled dark reflector in a slight depression with a bright shadow and a faint scour mark extending 5.4m to the south. In the bathymetry data the debris appears as an approximately circular feature measuring 1.3m in diameter. The debris has an anthropogenic appearance on a rough and uneven area of the seabed. Due to the proximity to possible wreck **70802**, this may be associated debris.
- 3.3.4 Debris **70463** is located between KP30 and KP31 and looks highly anthropogenic in the sidescan sonar data as a distinct curvilinear dark reflector, or two disjointed curvilinear dark reflectors with very bright shadows. The debris is very distinctive on a sandy and gravelly area of the seabed and has dimensions of 3.9m x 1m x 0.4m (**Figure 10**).
- 3.3.5 There are 16 pieces of debris that have magnetic anomalies associated with them indicating ferrous debris. Feature **70278** has the largest magnetic amplitude, measuring 672nT. It is a very distinct and irregular shaped dark reflector with a long but thin shadow. The feature is isolated, lies in a slight depression and is located at KP57.
- 3.3.6 Feature **70314** is ferrous debris located between KP47 and KP48. The debris has a highly anthropogenic appearance in the sidescan sonar data, visible as a long and wide curvilinear dark reflector with a faint shadow (**Figure 9**). The feature is large and distinct enough to be discernible in the bathymetry data as a curvilinear, mound with dimensions of 13.2m x 2.1m x 0.3m, located within a sand wave rich area of the seabed. The debris has a medium sized magnetic anomaly associated with it measuring 113nT suggesting it has a ferrous content.
- 3.3.7 Ferrous debris **70446** is located between KP31 and KP32; the debris appears broken up or partially buried on a gravelly area of the seabed and is made up of a compact cluster of small dark reflectors with bright shadows (**Figure 9**). The debris has dimensions of 5.5m x 2m x 0.4m and a small magnetic anomaly associated with it measuring 43nT indicating some ferrous content. The debris has some scouring visible to the south measuring 7m in length and is anomalous to the surrounding seabed.



- 3.3.8 Debris **70460** lies between KP30 and KP31 and is a highly anthropogenic looking ferrous feature (**Figure 9**). This is visible in the sidescan sonar data as a V-shaped dark reflector with a large, bright and tapered shadow. The debris has dimensions of 4.1m x 0.9m x 0.4m and is situated in a depression with a medium sized magnetic anomaly associated measuring 75nT, suggesting it contains ferrous material.
- 3.3.9 Three debris fields have been identified across the ASA, two of these (**70135** and **70136**) were identified in the 2012 data assessment and were not revisited as part of this assessment. Debris field **70567** is located between KP23 and KP24 and is visible in the sidescan sonar data as a compact area of approximately six small and distinct dark reflectors with bright shadows, the largest measuring 0.6m; these appear to be situated in a depression. The debris field has a large sized associated magnetic anomaly measuring 490nT which is indicative of some ferrous debris, the magnetic anomaly was observed in the previous data assessment as 105nT.
- 3.3.10 Feature **70297** is the only seafloor disturbance identified across the ASA and is situated at KP49. The feature has dimensions of 7.6m x 3.4m x 0.2m and is visible in the sidescan sonar data as a medium sized, faint and indistinguishable dark reflector, with an irregular shape. The feature is located within an area of large sand waves meaning its full extent is possibly hidden; the feature may also be broken up (**Figure 10**).
- 3.3.11 Two bright reflector features have been identified across the ASA. Bright reflector **70022** was covered by the 2012 data assessment and was therefore not revisited in the 2015 sidescan sonar data; this is located between KP43 and KP44. Feature **70493** is a very small and inconspicuous bright reflector with dimensions of 1.2m x 1.0m, this feature is isolated on a featureless and gravelly area of the seabed at KP29 (**Figure 10**).
- 3.3.12 There are 28 dark reflector features recorded across the ASA. The largest of these is **6308** originally identified in 2006 data in WA project 62550 (WA 2007). This was revisited as part of the 2015 data assessment to cover gaps identified in the 2012 data, however no anomaly was identified. The feature has been retained unchanged as it may now be covered by sediments. In the 2007 assessment the anomaly appears as an elongated hard edged dark reflector with no shadow, which is disjointed or partially buried across its long extent. It is situated on a rough and uneven area of the seabed between KP17 and KP18.
- 3.3.13 The smallest dark reflector within the ASA is **70291** with dimensions of 0.9m x 0.2m x 0.1m. This is visible as a distinct but small rectangular shaped dark reflector in the sidescan sonar data with a very faint shadow and located on an area of sand waves between KP52 and KP53.
- 3.3.14 Dark reflector **70398** has dimensions of 3.3m x 1.6m x 0.7m and is visible in the sidescan sonar data as a faint but distinct V-shaped dark reflector with a long and bright shadow (**Figure 10**). The feature appears to be in a depression and is located on a gravelly area of the seabed with frequent boulders, situated between KP35 and KP36.
- 3.3.15 There are 613 magnetic anomalies with no sidescan sonar feature associated across the ASA, all of these have been given an archaeological potential rating of A2 (see **Appendix 1**). These have been split into small magnetic anomalies of less than 50nT; medium sized magnetic anomalies 50nT to 150nT and large magnetic anomalies of greater than 150nT. Background magnetic variation caused by geology is approximately ± 5 nT and as such smaller anomalies recorded across the ASA may prove to be geological in origin, likewise small anomalies may also be masked by this geological variation. All of the magnetic



anomalies classified as A2 have the possibility to be buried objects with ferrous content that are of archaeological potential

- 3.3.16 There are 439 small magnetic anomalies ranging from 5nT to 49nT across the ASA, some of these may be natural geological variations although they cannot be discounted from this report. These small anomalies are shown in **Figures 2 to 8** without their ID numbers as there are so many of them and they are less likely to be indicative of substantial features of archaeological potential. There are 134 medium sized magnetic anomalies across the ASA ranging from 50nT to 150nT and 40 large magnetic anomalies with no associated sidescan feature. Of particular note in this group are **70475, 70479, 70043, 70781** and **70557** which are all over 500nT. These large anomalies especially have the potential to represent substantial buried ferrous debris.

4 DISCUSSION AND RECOMMENDED MITIGATION

- 4.1.1 The Race Bank Offshore Wind Farm Written Scheme of Investigation (WSI) (Second Revision, WA 2014) contains extensive guidance on the archaeological monitoring and mitigation necessary for the development as required by the conditions of Marine Licence L/2012/00217/7. It includes provision for the modification and removal of AEZs where appropriate archaeological investigation and consultation have been undertaken. The current archaeological assessment enables such modification and removal of AEZs to be recommended where appropriate, based on the interpretation of the 2015 geophysical data over the AEZ locations. All AEZs not reviewed as part of this assessment must be considered to exist in their current form as summarised in the WSI.
- 4.1.2 It is necessary to state that the ASA is based on the current proposed export cable routes. These routes may alter and changes to the routes may require additional assessment of geophysical data in the future. It is recommended that the most recent available datasets should be assessed for this purpose.
- 4.1.3 It was not possible to assess any new data over the two pre-existing AEZs that intersect the ASA (**6026** and **6516**). As a result of this the AEZs for these two features remain unchanged with 100m radius circular AEZs based on the original anomaly positions (**Table 7**). Feature **6026** is a dark reflector that was assigned an A1 discrimination and **6516** is a recorded wreck not seen in the earlier geophysical datasets and hence discriminated as A3.

WA ID	Original WA Assessment	Position		Status	Exclusion Zone (m)
		Easting	Northing		
70802	106940.06	323507	5874826	New	30m buffer around current feature extent
6026	62550	344460	5895086	Not reviewed – retained unchanged	100m radius
6516	62550	331521	5883580	Not reviewed – retained unchanged	100m radius

Table 7: AEZs considered in this assessment

- 4.1.4 A single new AEZ has been added around a possible wreck identified within the ASA (**70802**). This feature was observed in the geophysical data as a mound with a large magnetic anomaly indicating that it contains ferrous debris. ROV investigations of this feature by MMT in 2015 discovered three items of metal debris (MMT 2015). However,



assessment of the ROV video footage by WA was unable to determine whether the material was related to a wreck or whether it was a collection of debris. It is recommended that an AEZ of 30m is placed around the current extent of the feature. Further investigation is required in order to determine whether the site is a partially-buried wreck or whether it is a collection of non-archaeological debris. Should the site prove to be non-archaeological in nature the AEZ can be removed in the future.

- 4.1.5 In total 686 anomalies have been identified as being of possible archaeological interest within the ASA and assigned an A2 archaeological potential rating. No new AEZs are recommended for any of these anomalies at this time, however avoidance of these features by micro-siting is recommended if they are proposed to be impacted by development in the future.
- 4.1.6 The WSI (WA 2014) recommends that in addition to the AEZs, all single geophysical anomalies within the OWF, export cable route and associated buffer zones are treated as de facto excluded areas, albeit without defined extents. These geophysical exclusion zones should be viewed as points of heightened archaeological potential, associated with geophysical anomalies, the precise nature and archaeological potential of which cannot be determined from the available geophysical data alone.
- 4.1.7 Once scheme details have been finalised any of these anomalies that will be subject to either direct or secondary impacts from the scheme should be investigated further to determine whether or not they represent archaeology. Such investigations may take the form of diver or ROV groundtruthing operations. It has been assumed that impacts may occur where construction activities take place within a 50m radius of an anomaly. In situations where such investigation suggests an archaeological origin the anomalies in question may be subject to formal AEZs.
- 4.1.8 It is recommended that if any objects of possible archaeological interest are recovered during any groundwork operations, that they should be reported using the established Protocol for Archaeological Discoveries: Offshore Renewables Projects (The Crown Estate 2014). This will establish whether the recovered objects are of archaeological interest and recommend appropriate mitigation measures

5 REFERENCES

- DONG Energy, 2014. Project Reference System for Race Bank. Unpublished document, ref. 1943208.
- Fugro EMU, 2015a. ROW01 Offshore UXO Survey 2015, Fugro Seeker Operations Report. Unpublished report, ref. 15/J/3/02/2798/1829 DRAFT.
- Fugro EMU, 2015b. ROW01 Offshore UXO and Environmental & Engineering Survey 2015. Victor Hensen Operations Report. Unpublished report, ref. 15/J/3/02/2798/1826 DRAFT.
- Fugro EMU, 2015c. ROW01 Offshore UXO and Environmental & Engineering Survey 2015. RV Discovery Operations Report. Unpublished report, ref. 15/J/3/02/2798/1827 DRAFT.
- Fugro EMU, 2015d. ROW01 Intertidal UXO Survey 2015. Argosy – Operations Report. Unpublished report, ref. 15/J/3/02/2811/1828 DRAFT.



- MMT, 2015. Field Report, Unpublished report, ref. 102012-DON-MMT-SUR-REP-FE15_MC_8024.
- Wessex Archaeology, 2007. Wash Cable Route Corridor Archaeological Assessment, Unpublished report ref: 62550.06.
- Wessex Archaeology, 2008. Race Bank Offshore Wind Farm: Archaeological Assessment. Unpublished report, ref. 62554.04.
- Wessex Archaeology, 2010. Race Bank and Docking Shoal Offshore Wind Farms Additional Areas in The Wash Assessment of Marine Geophysical Data and Archaeological Assessment, Unpublished report ref. 62556.04.
- Wessex Archaeology, 2014. Race Bank Offshore Wind Farm. Archaeological Monitoring and Mitigation: Written Scheme of Investigation, Second Revision. Unpublished report, ref. 106940.01.
- Wessex Archaeology, 2015. Race Bank Offshore Wind Farm. Archaeological Assessment of Geophysical Survey Data: Export Cable Route. Unpublished report, ref. 106940.03.
- Wessex Archaeology, 2016. Race Bank Offshore Wind Farm Wreck Assessment – FE15_MC_8024/DONG_10326.



APPENDIX 1 – SEABED FEATURES OF ARCHAEOLOGICAL POTENTIAL

WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
6034	62550	Dark reflector	346745	5898429	A2	7.8	0.5	-	-	Hard edged disjointed anomaly, 2012 sidescan sonar data missing and not identified in 2015 data, may have since been buried by sediments	-
6308	62550	Dark reflector	320083	5871012	A2	18.3	5.3	-	-	The image from the original geophysical assessment (62550) shows this anomaly to be an elongated hard edged dark reflector with no shadow, which is disjointed or partially buried across its long extent. It is visible as an almost 'v' shape on a rough and uneven area of the seabed. 2012 data is missing for this area and not identified in 2015 data, retained as A2 as it may have become covered by sediment	-
6370	62550	Dark reflector	324072	5875053	A2	11.0	2.2	0	-	Large dark reflector anomaly not identified in 2012 or 2015 surveys, may have since been buried	-
7005	106940.06, 62556	Debris	336410	5888574	A2	4.1	0.9	0.2	184	Medium sized dark reflector anomaly with a small shadow, 2012 sidescan sonar data missing and nothing visible in 2015 sidescan data, may have since been buried. Has a large magnetic anomaly identified on more than one survey line in 2015 data indicating ferrous debris	-
7027	62556	Debris	326390	5876512	A2	31.5	4.1	0.8	-	Distinct object, possibly a section of fishing gear, covered in 2012 data but no anomaly identified, anomaly has possibly been covered by mobile sands since 62556 survey, retained as A2. Not revisited in 2015 sidescan sonar data	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
7055	62556	Dark reflector	315497	5863148	A2	2.3	2.0	0	-	Possibly causing seafloor disturbance, covered in 2012 data but no anomaly identified, anomaly has possibly been covered by mobile sands since 62556 survey. Not revisited in 2015 sidescan sonar data	-
7072	106940.06, 62556	Magnetic	315569	5863035	A2	-	-	-	185	Large anomaly identified on more than one survey line, observed as 5nT in 62556 data assessment. Indicative of possible substantial buried ferrous debris	-
7082	106940.06, 106940.03, 62556	Magnetic	314741	5861019	A2	-	-	-	17	Small dipole identified on more than one survey line, observed as 23nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
7093	106940.06, 106940.03, 62556	Magnetic	314377	5859391	A2	-	-	-	13	Small anomaly identified on more than one survey line, observed as 7nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
7098	106940.06, 62556	Magnetic	315172	5862373	A2	-	-	-	111	Medium anomaly identified on more than one survey line, observed as 27nT in 62556 data assessment. Indicative of possible buried ferrous debris	-
7112	106940.06, 106940.03, 62556	Magnetic	314699	5860893	A2	-	-	-	51	Medium dipole identified on more than one survey line, observed as 12nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
7114	106940.06, 106940.03, 62556	Magnetic	314830	5861110	A2	-	-	-	142	Medium negative monopole identified on more than one survey line, observed as 47nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
7115	106940.06, 106940.03, 62556	Magnetic	314034	5858666	A2	-	-	-	100	Medium dipole identified on more than one survey line, observed as 6nT and 123nT in previous data assessments. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70000	106940.03	Dark reflector	313972	5858202	A2	1.6	1.0	0	-	Oval shaped dark reflector with no shadow, has a distinct edged outline with a fainter inside. Not revisited in 2015 sidescan data	-
70002	106940.03	Debris	314086	5858926	A2	4.5	0.2	0	-	Long and thin linear hard edged dark reflector with no shadow, distinct anomaly on a sandy and even part of the seabed. Not revisited in 2015 sidescan data	-
70004	106940.03	Debris	314007	5858313	A2	9.0	4.0	0	-	Hard edged, distinct dark reflector with no shadow but in a slight depression or on the edge of a sand wave, has a right angled appearance and anomalous to the surrounding seabed, possible debris remains. Identified in bathymetry as an elongated shallow depression oriented north to south. Not revisited in 2015 sidescan data	-
70006	106940.03	Dark reflector	314400	5859641	A2	6.1	0.6	0	-	Broken up curvilinear shaped anomaly, looks to have a curved outline, distinctive feature on a sandy and even area of the seabed. Not revisited in 2015 sidescan data	-
70007	106940.03	Dark reflector	314664	5860684	A2	2.8	0.4	0	-	Distinct dark reflector with no shadow on a sandy area of the seabed. Not revisited in 2015 sidescan data	-
70010	106940.06, 106940.03	Debris	325155	5875474	A2	4.0	0.8	0.4	336	Distinct and possibly broken up dark reflector with a bright shadow and situated in a slight depression, possible ferrous debris remains. Isolated anomaly on a sandy and gravelly area of the seabed. Large magnetic anomaly observed in 2015 magnetic data, not revisited in 2015 sidescan sonar data. Size of magnetic anomaly indicates further buried ferrous debris may be present.	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70011	106940.06, 106940.03	Debris	323536	5874825	A2	2.5	1.4	0.4	17	Small piece of debris possibly associated with larger feature 70802 (lies approximately 25m east). A discreet right angled dark reflector in a slight depression with a bright shadow and faint scour mark orientated south and measuring 5.4m. In the bathymetry data it appears as an approximately circular feature measuring 1.3m in diameter. Feature has an anthropogenic appearing shape on the seabed and a small magnetic anomaly associated indicating ferrous debris	
70012	106940.03	Dark reflector	328197	5878999	A2	1.0	0.7	0.2	-	Hollow circular shaped diffuse dark reflector with a faint shadow, isolated and anthropogenic anomaly on a sandy and even area of the seabed. Not revisited in 2015 sidescan data	-
70013	106940.03	Debris	328262	5879240	A2	3.7	0.1	0.2	-	Distinct, thin linear dark reflector with a bright shadow, possibly debris remains. Not revisited in 2015 sidescan data	-
70014	106940.03	Dark reflector	328290	5879264	A2	3.2	0.5	0.5	-	Thick linear dark reflector with a bright tapered shadow, very distinctive anomaly in a slight depression. Not revisited in 2015 sidescan data	-
70015	106940.03	Debris	328394	5879639	A2	1.2	1.7	0	-	Right angled shaped hard edged dark reflector with no shadow but in a depression, possible debris remains. Not revisited in 2015 sidescan data	-
70016	106940.06, 106940.03	Debris	328310	5879720	A2	3.5	0.3	0.5	34	Thick and hard edged long dark reflector with a bright shadow, located on a rough and uneven area of the seabed with a small sized dipole associated indicating ferrous material. Sidescan anomaly identified in 2012 survey, magnetic anomaly identified in 2015 survey	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70017	106940.03	Debris	328367	5879629	A2	1.6	1.0	0.3	-	Rectangular shaped diffuse dark reflector with a short shadow and in a depression, similar appearance to nearby debris remains 70015. Possibly anthropogenic debris. Not revisited in 2015 sidescan data	-
70018	106940.03	Debris	328348	5879812	A2	3.0	0.8	0.5	-	Three parallel and short linear hard edged dark reflectors with a bright shadow, adjacent to similar feature 70019, possibly debris remains. Not revisited in 2015 sidescan data	-
70019	106940.03	Debris	328348	5879811	A2	1.6	0.7	0.6	-	Three parallel short linear hard edged dark reflectors with bright shadow, adjacent to similar feature 70018, possibly debris remains. Not revisited in 2015 sidescan data	-
70021	106940.03	Debris	329703	5882176	A2	1.1	0.6	0.4	11	Hard edged dark reflector with a bright shadow, thin linear anomaly with rounded ends, looks more anthropogenic than surrounding seabed anomalies. Has a small magnetic anomaly associated, indicative of possible ferrous debris. Not revisited in 2015 sidescan data	-
70022	106940.03	Bright reflector	337517	5889316	A2	10.1	6.1	0	-	Large oval shaped bright reflector anomaly, very distinct on a sandy and even area of the seabed. Not revisited in 2015 sidescan data	-
70023	106940.03	Dark reflector	329939	5882364	A2	4.0	0.1	0.3	-	Hard edged, long and linear dark reflector with a bright shadow, very distinctive anomaly on a rough and uneven area of the seabed. Not revisited in 2015 sidescan data	-
70024	106940.03	Dark reflector	340532	5890648	A2	4.1	0.4	0.3	-	Hard edged linear dark reflector with a faint shadow, distinct anomaly. Not revisited in 2015 sidescan data	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70026	106940.06, 106940.03	Debris	347716	5902111	A2	1.7	0.2	0.5	336	Hard edged oval shaped dark reflector with a bright shadow, located within small sand waves and isolated on the seabed. Has a large magnetic anomaly associated indicative of ferrous debris. Size of anomaly indicates buried debris is also likely. Magnetic anomaly observed as 15nT in previous data assessment. Not revisited in 2015 sidescan data	-
70027	106940.06, 106940.03	Debris	347721	5902329	A2	1.3	1.0	0.5	105	Diffuse triangular shaped dark reflector with a dull shadow, distinct anomaly on a rough and uneven part of the seabed, has a medium asymmetric dipole anomaly associated indicative of possible ferrous debris. Identified in two surveys, observed as 9nT in previous data assessment. Not revisited in 2015 sidescan data	-
70031	106940.06, 106940.03	Magnetic	313842	5857310	A2	-	-	-	50	Medium dipole identified on more than one survey line, distinct anomaly observed as 23nT in previous data assessment. Indicative of possible buried ferrous debris	-
70032	106940.06, 106940.03	Magnetic	313846	5857762	A2	-	-	-	38	Small positive monopole identified on more than one survey line, observed as 38nT in previous data assessment. Indicative of possible buried ferrous debris	-
70034	106940.06, 106940.03	Magnetic	313853	5857777	A2	-	-	-	52	Medium dipole identified on more than one survey line, observed as 15nT in previous data assessment. Indicative of possible buried ferrous debris	-
70035	106940.06, 106940.03	Magnetic	313855	5857816	A2	-	-	-	19	Small dipole identified on more than one survey line, observed as 12nT in 2012 data assessment. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70036	106940.06, 106940.03	Magnetic	313876	5857696	A2	-	-	-	55	Medium asymmetric dipole identified on more than one survey line, observed as 45nT in previous data assessment. Indicative of possible buried ferrous debris	-
70037	106940.06, 106940.03	Magnetic	313905	5857474	A2	-	-	-	99	Medium dipole identified on more than one survey line, observed as 105nT in previous data assessment. Indicative of possible buried ferrous debris	-
70040	106940.06, 106940.03	Magnetic	313817	5857579	A2	-	-	-	50	Medium dipole identified on more than one survey line, observed as 27nT in previous data assessment. Indicative of possible buried ferrous debris	-
70041	106940.06, 106940.03	Magnetic	313814	5857756	A2	-	-	-	12	Small anomaly identified on more than one survey line, observed as 10nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70043	106940.06, 106940.03	Magnetic	317528	5866630	A2	-	-	-	709	Very large dipole identified on more than one survey line, observed as 73nT in previous data assessment. Indicative of a substantial quantity of buried ferrous debris	-
70044	106940.06, 106940.03	Magnetic	317619	5866735	A2	-	-	-	94	Medium dipole identified on more than one survey line, observed as 32nT in previous data assessment. Indicative of possible buried ferrous debris	-
70045	106940.06, 106940.03	Magnetic	317554	5866618	A2	-	-	-	50	Medium dipole identified on more than one survey line, observed as 9nT in previous data assessment. Indicative of possible buried ferrous debris	-
70057	106940.06, 106940.03	Magnetic	316849	5865540	A2	-	-	-	89	Medium dipole identified on more than one survey line, observed as 21nT in previous data assessment. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70058	106940.06, 106940.03	Magnetic	316927	5865591	A2	-	-	-	39	Small positive monopole identified on more than one survey line, observed as 18nT in previous data assessment. Indicative of possible buried ferrous debris	-
70060	106940.06, 106940.03	Magnetic	316967	5865766	A2	-	-	-	47	Small dipole identified on more than one survey line, observed as 69nT in previous data assessment. Indicative of possible buried ferrous debris.	-
70066	106940.06, 106940.03	Magnetic	313966	5857847	A2	-	-	-	184	Large asymmetric dipole identified on more than one survey line, observed as 12nT in previous data assessment. Indicative of possible substantial buried ferrous debris	-
70070	106940.06, 106940.03	Magnetic	313912	5858251	A2	-	-	-	111	Medium dipole identified on more than one survey line, observed as 24nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70071	106940.06, 106940.03	Magnetic	314048	5858424	A2	-	-	-	116	Medium dipole identified on more than one survey line, observed as 13nT in previous data assessment. Indicative of possible buried ferrous debris	-
70073	106940.06, 106940.03	Magnetic	314452	5859701	A2	-	-	-	59	Medium dipole identified on more than one survey line, observed as 15nT in previous data assessment. Indicative of possible buried ferrous debris	-
70076	106940.06, 106940.03	Magnetic	317819	5867246	A2	-	-	-	88	Medium asymmetric dipole identified on more than one survey line, observed as 8nT in previous data assessment. Indicative of possible buried ferrous debris	-
70077	106940.06, 106940.03	Magnetic	317275	5866313	A2	-	-	-	15	Small dipole identified on more than one survey line, observed as 59nT in 2012 data assessment. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70078	106940.06, 106940.03	Magnetic	314700	5860874	A2	-	-	-	61	Medium dipole identified on more than one survey line, observed as 87nT in previous data assessment. Indicative of possible buried ferrous debris	-
70080	106940.06, 106940.03	Magnetic	317200	5866125	A2	-	-	-	11	Small asymmetric dipole identified on more than one survey line, observed as 49nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70082	106940.06, 106940.03	Magnetic	317374	5866475	A2	-	-	-	12	Small asymmetric dipole identified on more than one survey line, observed as 18nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70083	106940.06, 106940.03	Magnetic	317470	5866528	A2	-	-	-	12	Small irregular anomaly identified on more than one survey line, observed as 20nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70086	106940.06, 106940.03	Magnetic	317587	5866801	A2	-	-	-	11	Small positive monopole identified on more than one survey line, observed as 12nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70089	106940.06, 106940.03	Magnetic	317910	5867216	A2	-	-	-	6	Small dipole identified on more than one survey line, observed as 17nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70092	106940.06, 106940.03	Magnetic	317881	5867436	A2	-	-	-	12	Small asymmetric dipole identified on more than one survey line, observed as 27nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70095	106940.06, 106940.03	Magnetic	318067	5867611	A2	-	-	-	9	Small dipole identified on more than one survey line, observed as 15nT in 2012 data assessment. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70097	106940.06, 106940.03	Magnetic	318021	5867673	A2	-	-	-	29	Small asymmetric dipole identified on more than one survey line, observed as 110nT in previous data assessment. Indicative of possible buried ferrous debris	-
70099	106940.06, 106940.03	Magnetic	318127	5867799	A2	-	-	-	14	Small asymmetric dipole identified on more than one survey line, observed as 42nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70100	106940.06, 106940.03	Magnetic	318207	5867926	A2	-	-	-	6	Small dipole not identified on adjacent survey lines, observed as 6nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70102	106940.06, 106940.03	Magnetic	318332	5868040	A2	-	-	-	212	Large dipole identified on more than one survey line, observed as 302nT in previous data assessment. Indicative of possible substantial buried ferrous debris	-
70103	106940.06, 106940.03	Magnetic	318343	5868032	A2	-	-	-	12	Small dipole identified on more than one survey line, observed as 18nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70104	106940.06, 106940.03	Magnetic	318313	5868168	A2	-	-	-	61	Medium dipole identified on more than one survey line, observed as 235nT in previous data assessment. Indicative of possible buried ferrous debris	-
70105	106940.06, 106940.03	Magnetic	318349	5868254	A2	-	-	-	13	Small negative monopole not identified on adjacent survey lines, observed as 22nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70106	106940.06, 106940.03	Magnetic	318454	5868239	A2	-	-	-	17	Small asymmetric dipole identified on more than one survey line, identified as 22nT in 2012 data assessment. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70107	106940.06, 106940.03	Magnetic	318566	5868423	A2	-	-	-	14	Small negative monopole identified on more than one survey line, observed as 47nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70108	106940.06, 106940.03	Magnetic	318593	5868542	A2	-	-	-	30	Small positive monopole not identified on adjacent survey lines, observed as 62nT in previous data assessment. Indicative of possible buried ferrous debris	-
70109	106940.06, 106940.03	Magnetic	318651	5868567	A2	-	-	-	36	Small asymmetric dipole identified on more than one survey line, observed as 57nT in previous data assessment. Indicative of possible buried ferrous debris	-
70110	106940.06, 106940.03	Magnetic	318625	5868539	A2	-	-	-	31	Small dipole identified on more than one survey line, observed as 33nT in previous data assessment. Indicative of possible buried ferrous debris	-
70111	106940.06, 106940.03	Magnetic	318550	5868594	A2	-	-	-	12	Small dipole identified on more than one survey line, observed as 35nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70116	106940.06, 106940.03	Magnetic	318743	5868961	A2	-	-	-	23	Small dipole identified on more than one survey line, observed as 52nT in previous data assessment. Indicative of possible buried ferrous debris	-
70117	106940.06, 106940.03	Magnetic	318725	5868953	A2	-	-	-	13	Small dipole identified on more than one survey line, observed as 24nT in 2012 data assessment. Indicative of possible buried ferrous debris	-
70118	106940.06, 106940.03	Magnetic	318872	5869047	A2	-	-	-	10	Small asymmetric dipole not identified on adjacent survey lines, observed as 16nT in 2012 data assessment. Indicative of possible buried ferrous debris	-



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70121	106940.06, 106940.03	Magnetic	341451	5891083	A2	-	-	-	70	Medium dipole identified on more than one survey line, observed as 25nT in previous data assessment. Indicative of possible buried ferrous debris	-
70122	106940.06, 106940.03	Magnetic	342141	5891866	A2	-	-	-	304	Large dipole identified on more than one survey line, observed as 54nT in previous data assessment. Indicative of possible substantial buried ferrous debris	-
70125	106940.06, 106940.03	Magnetic	347824	5903103	A2	-	-	-	362	Large dipole identified on more than one survey line, observed as 33nT in previous data assessment. Indicative of possible substantial buried ferrous debris	-
70126	106940.06, 106940.03	Magnetic	349853	5905777	A2	-	-	-	103	Medium dipole identified on more than one survey line, observed as 12nT in previous data assessment. Indicative of possible buried ferrous debris	-
70129	106940.06, 106940.03	Magnetic	326006	5875930	A2	-	-	-	50	Medium asymmetric dipole identified on more than one survey line, observed as 18nT in previous data assessment. Indicative of possible buried ferrous debris	-
70130	106940.06, 106940.03	Magnetic	323689	5875030	A2	-	-	-	51	Medium anomaly identified on more than one survey line, observed as 16nT in previous data assessment. Indicative of possible buried ferrous debris	-
70133	106940.03	Dark reflector	330701	5882958	A2	4.3	0.9	0.3	-	Hard edged rectangular shaped dark reflector with a bright tapered shadow and in a depression on a gravelly area of the seabed, looks more anthropogenic than surrounding anomalies. Not revisited in 2015 sidescan data	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70135	106940.06, 106940.03	Debris field	324237	5875082	A2	47.4	20.0	0.9	13	Possible debris field made up of hard edged and diffuse dark reflectors with shadows, approx. 10+ pieces, largest of which is 2m x 1.7m, spread over a large area. Has a small asymmetric dipole associated with it indicating some ferrous material is present. Not revisited in 2015 sidescan data	-
70136	106940.03	Debris field	325134	5875634	A2	39.9	5.7	0.6	-	Group of possible debris remains made up of approximately 8 hard edged dark reflectors with bright shadows, very distinctive and anthropogenic looking debris, largest of which is a 3.6m curvilinear anomaly. Not revisited in 2015 sidescan data	-
70200	106940.06	Magnetic	353780	5907373	A2	-	-	-	28	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70201	106940.06	Magnetic	351249	5906549	A2	-	-	-	32	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70202	106940.06	Dark reflector	352137	5906511	A2	2.0	0.4	0.6	-	Possibly broken up anomaly in poor quality data with a bright shadow, feature is located in between sand waves and looks distinct on the seabed	-
70203	106940.06	Debris	352068	5906510	A2	0.6	0.4	0.1	-	Distinct dark reflector with an internal area of bright reflector and shadow, appears as two short linear features aligned, possible non-ferrous debris	-
70204	106940.06	Magnetic	352476	5906505	A2	-	-	-	10	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70205	106940.06	Magnetic	352221	5906502	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70206	106940.06	Magnetic	350580	5906468	A2	-	-	-	59	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70207	106940.06	Magnetic	352505	5906465	A2	-	-	-	41	Small positive monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70208	106940.06	Magnetic	350040	5905989	A2	-	-	-	13	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70209	106940.06	Magnetic	349860	5905698	A2	-	-	-	54	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70210	106940.06	Magnetic	349092	5904700	A2	-	-	-	36	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70211	106940.06	Debris	349088	5904689	A2	2.6	2.4	0.3	-	Possible debris feature which may be partially covered by fine sands and sediments, located within sand waves and in a slight depression, a indistinct dark reflector with a bright shadow anomalous to the surrounding seabed	-
70212	106940.06	Magnetic	348599	5904067	A2	-	-	-	189	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70213	106940.06	Magnetic	348451	5903867	A2	-	-	-	15	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70214	106940.06	Magnetic	348255	5903565	A2	-	-	-	11	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70215	106940.06	Magnetic	347966	5903186	A2	-	-	-	82	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70216	106940.06	Magnetic	347756	5902757	A2	-	-	-	11	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70217	106940.06	Magnetic	347666	5902712	A2	-	-	-	32	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70218	106940.06	Magnetic	347754	5902521	A2	-	-	-	29	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70219	106940.06	Magnetic	347720	5902510	A2	-	-	-	15	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70220	106940.06	Magnetic	347696	5902482	A2	-	-	-	37	Small symmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70221	106940.06	Magnetic	347693	5902408	A2	-	-	-	324	Large dipole identified on more than one survey line. Indicative of possibly a substantial quantity of buried ferrous debris	-
70222	106940.06	Magnetic	347720	5902301	A2	-	-	-	16	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70223	106940.06	Magnetic	347719	5902228	A2	-	-	-	68	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70224	106940.06	Magnetic	347710	5902183	A2	-	-	-	385	Large dipole identified on more than one survey line. Indicative of possibly a substantial quantity of buried ferrous debris	-
70225	106940.06	Magnetic	347788	5902098	A2	-	-	-	32	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70226	106940.06	Magnetic	347768	5902017	A2	-	-	-	46	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70227	106940.06	Magnetic	347783	5902014	A2	-	-	-	46	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70228	106940.06	Magnetic	347789	5901968	A2	-	-	-	75	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70229	106940.06	Magnetic	347805	5901923	A2	-	-	-	81	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70230	106940.06	Magnetic	347737	5901917	A2	-	-	-	23	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70231	106940.06	Magnetic	347822	5901868	A2	-	-	-	60	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70232	106940.06	Magnetic	347758	5901738	A2	-	-	-	35	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70233	106940.06	Magnetic	347754	5901728	A2	-	-	-	23	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70234	106940.06	Magnetic	347792	5901678	A2	-	-	-	18	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70235	106940.06	Magnetic	347786	5901610	A2	-	-	-	37	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70236	106940.06	Magnetic	352596	5901507	A2	-	-	-	70	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70237	106940.06	Magnetic	347795	5901483	A2	-	-	-	29	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70238	106940.06	Magnetic	353560	5901471	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70239	106940.06	Dark reflector	347786	5901469	A2	2.3	2.0	0.2	-	One broken up or two distinct objects with a bright shadow in poor data, possibly natural geology though anomalous to the surrounding seabed and located within sand waves	-
70240	106940.06	Magnetic	347862	5901323	A2	-	-	-	19	Small positive monopole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70241	106940.06	Magnetic	351750	5901107	A2	-	-	-	14	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70242	106940.06	Magnetic	347843	5901083	A2	-	-	-	6	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70243	106940.06	Magnetic	347821	5901069	A2	-	-	-	73	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70244	106940.06	Magnetic	351555	5900999	A2	-	-	-	99	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70245	106940.06	Magnetic	347805	5900893	A2	-	-	-	36	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70246	106940.06	Magnetic	351129	5900833	A2	-	-	-	19	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70247	106940.06	Magnetic	351239	5900822	A2	-	-	-	15	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70248	106940.06	Magnetic	351177	5900807	A2	-	-	-	27	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70249	106940.06	Magnetic	347882	5900667	A2	-	-	-	181	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-



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70250	106940.06	Magnetic	350864	5900634	A2	-	-	-	11	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70251	106940.06	Magnetic	347914	5900628	A2	-	-	-	29	Small asymmetric dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70252	106940.06	Magnetic	350870	5900627	A2	-	-	-	8	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70253	106940.06	Magnetic	347867	5900599	A2	-	-	-	259	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70254	106940.06	Magnetic	347918	5900457	A2	-	-	-	10	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70255	106940.06	Magnetic	350512	5900385	A2	-	-	-	20	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70256	106940.06	Magnetic	350157	5900306	A2	-	-	-	60	Medium anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70257	106940.06	Magnetic	347908	5900283	A2	-	-	-	19	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70258	106940.06	Magnetic	350158	5900270	A2	-	-	-	28	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70259	106940.06	Magnetic	350052	5900209	A2	-	-	-	24	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70260	106940.06	Magnetic	349970	5900203	A2	-	-	-	9	Small symmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70261	106940.06	Magnetic	350026	5900199	A2	-	-	-	11	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70262	106940.06	Magnetic	349935	5900113	A2	-	-	-	17	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70263	106940.06	Magnetic	349768	5900069	A2	-	-	-	8	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70264	106940.06	Magnetic	349842	5900068	A2	-	-	-	94	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70265	106940.06	Magnetic	349716	5900045	A2	-	-	-	10	Small symmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70266	106940.06	Magnetic	349782	5900033	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70267	106940.06	Magnetic	349737	5900023	A2	-	-	-	73	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70268	106940.06	Magnetic	349728	5900007	A2	-	-	-	7	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70269	106940.06	Magnetic	349648	5900001	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70270	106940.06	Magnetic	349640	5899994	A2	-	-	-	15	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70271	106940.06	Magnetic	349731	5899990	A2	-	-	-	76	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70272	106940.06	Magnetic	349545	5899962	A2	-	-	-	20	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70273	106940.06	Magnetic	349629	5899938	A2	-	-	-	11	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70274	106940.06	Magnetic	349114	5899693	A2	-	-	-	66	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70275	106940.06	Magnetic	348949	5899589	A2	-	-	-	18	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70276	106940.06	Magnetic	347870	5899556	A2	-	-	-	8	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70277	106940.06	Magnetic	347993	5899114	A2	-	-	-	8	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70278	106940.06	Debris	346815	5898367	A2	2.8	1.6	0.7	672	Very distinct irregular shaped dark reflector with a long but thin shadow. Isolated feature in a slight depression. A very large dipole identified on more than one survey line indicates that the object may be ferrous debris. The very large amplitude of the magnetic anomaly indicates it is likely further buried ferrous debris is also present.	-
70279	106940.06	Magnetic	346822	5898338	A2	-	-	-	18	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70280	106940.06	Magnetic	346088	5897718	A2	-	-	-	13	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70281	106940.06	Magnetic	345975	5897658	A2	-	-	-	30	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70282	106940.06	Magnetic	345918	5897646	A2	-	-	-	30	Small negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70284	106940.06	Debris	345244	5896763	A2	12.0	2.6	-0.6	109	Very distinct ferrous debris feature, made up of a circular shaped dark reflector with a thick curvilinear feature attached to this. Located within sand waves and looks highly anthropogenic. Appears in the bathymetry as an oval shaped depression which may contain partially buried objects. Medium dipole identified on more than one survey line	-
70285	106940.06	Debris	345228	5896750	A2	2.5	0.6	0.1	-	Distinct dark reflector with a short shadow, lots of similar linear anomalies on this area of the seabed though this appears more anthropogenic	-
70286	106940.06	Debris	345245	5896725	A2	4.5	0.7	0.3	-	Distinct thick linear dark reflector with a bright shadow, may be possible buried cable that is exposed in three parts or a broken apart linear debris feature, possibly related to 70287 and 70288. Feature is more exposed in the bathymetry data discernible as a partially buried long, linear feature, buried by sand waves	-
70287	106940.06	Debris	345237	5896723	A2	3.7	2.0	0.2	-	Length of linear debris visible as a long, straight and thick dark reflector with no shadow, possibly broken up non-ferrous debris related to 70286 and 70288. Feature is more exposed in the bathymetry data discernible as a partially buried long, linear feature, buried by sand waves	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70288	106940.06	Debris	345227	5896717	A2	3.2	0.9	0.2	-	Feature visible as a distinct dark reflector and a bright shadow, long and thin linear anomaly possibly related to 70286 and 70287. Feature is more exposed in the bathymetry data discernible as a partially buried long, linear feature, buried by sand waves measuring 0.25m in height	-
70289	106940.06	Magnetic	344352	5895283	A2	-	-	-	12	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70290	106940.06	Magnetic	344389	5895251	A2	-	-	-	32	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70291	106940.06	Dark reflector	344150	5894853	A2	0.9	0.2	0.1	-	Distinct but small feature with a very faint shadow, rectangular in shape and located on sand waves	-
70292	106940.06	Magnetic	343153	5893239	A2	-	-	-	13	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70293	106940.06	Magnetic	342659	5892599	A2	-	-	-	19	Small irregular anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70294	106940.06	Magnetic	342476	5892351	A2	-	-	-	9	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70295	106940.06	Magnetic	342421	5892330	A2	-	-	-	22	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70296	106940.06	Magnetic	342331	5892082	A2	-	-	-	10	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70297	106940.06	Seafloor disturbance	342191	5891829	A2	7.6	3.4	0.2	-	Medium sized possible seafloor disturbance, a faint and indistinguishable dark reflector, that may be broken up and possibly covered by sands and fine sediments	-



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70298	106940.06	Magnetic	342003	5891723	A2	-	-	-	6	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70299	106940.06	Magnetic	341960	5891670	A2	-	-	-	15	Small anomaly not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70300	106940.06	Magnetic	341937	5891670	A2	-	-	-	28	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70301	106940.06	Magnetic	341913	5891621	A2	-	-	-	403	Large dipole not identified on adjacent survey lines. Indicative of possibly a substantial quantity of buried ferrous debris	-
70302	106940.06	Magnetic	341790	5891578	A2	-	-	-	13	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70303	106940.06	Magnetic	341809	5891567	A2	-	-	-	20	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70304	106940.06	Magnetic	341835	5891533	A2	-	-	-	10	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70305	106940.06	Debris	341754	5891511	A2	1.8	1.6	0.8	105	Possible ferrous debris with a thin curvilinear rope/chain coming from it, distinct feature anomalous to the surrounding seabed, located within sand waves and may be partially buried, has a medium dipole identified on more than one survey line associated. Visible in the bathymetry as a small but distinct feature within large sand waves	-
70306	106940.06	Magnetic	341667	5891222	A2	-	-	-	23	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70307	106940.06	Magnetic	341534	5891137	A2	-	-	-	41	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70308	106940.06	Magnetic	341538	5891120	A2	-	-	-	25	Small irregular anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70309	106940.06	Magnetic	341345	5890946	A2	-	-	-	30	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70310	106940.06	Magnetic	341484	5890927	A2	-	-	-	91	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70311	106940.06	Magnetic	341303	5890876	A2	-	-	-	80	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70312	106940.06	Magnetic	341231	5890856	A2	-	-	-	9	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70313	106940.06	Magnetic	341304	5890780	A2	-	-	-	13	Small negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70314	106940.06	Debris	341238	5890719	A2	13.2	2.1	0.3	113	Very distinct curvilinear ferrous debris feature, distinguishable as a thick dark reflector with no shadow, isolated on a sandy and even area of the seabed. In the bathymetry the feature appears as a long and thick curvilinear feature distinct on a sand wave rich area of the seabed. Medium dipole identified on more than one survey line	-
70315	106940.06	Magnetic	340763	5890695	A2	-	-	-	20	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70316	106940.06	Magnetic	339989	5890320	A2	-	-	-	17	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70317	106940.06	Magnetic	339484	5890316	A2	-	-	-	14	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70318	106940.06	Magnetic	339643	5890233	A2	-	-	-	53	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70319	106940.06	Magnetic	339008	5890085	A2	-	-	-	11	Small asymmetric dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70320	106940.06	Magnetic	338726	5890060	A2	-	-	-	30	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70321	106940.06	Magnetic	338991	5890041	A2	-	-	-	15	Small irregular anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70322	106940.06	Magnetic	338401	5890001	A2	-	-	-	84	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70323	106940.06	Magnetic	338408	5889991	A2	-	-	-	21	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70324	106940.06	Magnetic	338413	5889987	A2	-	-	-	51	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70325	106940.06	Magnetic	338626	5889982	A2	-	-	-	20	Small monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70326	106940.06	Magnetic	338603	5889933	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70327	106940.06	Magnetic	338304	5889933	A2	-	-	-	41	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70328	106940.06	Magnetic	338289	5889930	A2	-	-	-	21	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70329	106940.06	Magnetic	338289	5889930	A2	-	-	-	21	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70330	106940.06	Magnetic	338591	5889927	A2	-	-	-	14	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70331	106940.06	Magnetic	338511	5889915	A2	-	-	-	16	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70332	106940.06	Magnetic	338252	5889857	A2	-	-	-	8	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70333	106940.06	Magnetic	337879	5889678	A2	-	-	-	58	Medium asymmetric dipole on one line. Indicative of possible buried ferrous debris	-
70334	106940.06	Magnetic	337723	5889537	A2	-	-	-	44	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70335	106940.06	Magnetic	337653	5889371	A2	-	-	-	47	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70336	106940.06	Magnetic	337430	5889338	A2	-	-	-	9	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70337	106940.06	Magnetic	337573	5889307	A2	-	-	-	257	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70338	106940.06	Magnetic	337253	5889191	A2	-	-	-	35	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70339	106940.06	Magnetic	331714	5884147	A2	-	-	-	78	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70340	106940.06	Magnetic	336987	5889160	A2	-	-	-	59	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70341	106940.06	Magnetic	337107	5889134	A2	-	-	-	332	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70342	106940.06	Magnetic	336903	5889098	A2	-	-	-	54	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70345	106940.06	Magnetic	336747	5889002	A2	-	-	-	25	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70346	106940.06	Magnetic	336296	5888694	A2	-	-	-	20	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70347	106940.06	Magnetic	336531	5888667	A2	-	-	-	35	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70348	106940.06	Magnetic	336455	5888617	A2	-	-	-	70	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70349	106940.06	Magnetic	336200	5888580	A2	-	-	-	13	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70350	106940.06	Magnetic	336237	5888457	A2	-	-	-	17	Small positive monopole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70351	106940.06	Magnetic	336187	5888424	A2	-	-	-	25	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70352	106940.06	Magnetic	335903	5888236	A2	-	-	-	10	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70353	106940.06	Magnetic	335673	5888201	A2	-	-	-	9	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70354	106940.06	Magnetic	335560	5888130	A2	-	-	-	21	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70355	106940.06	Magnetic	335683	5888111	A2	-	-	-	45	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70356	106940.06	Magnetic	335394	5888086	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70357	106940.06	Magnetic	335637	5888074	A2	-	-	-	66	Medium negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70358	106940.06	Magnetic	335334	5888016	A2	-	-	-	23	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70359	106940.06	Magnetic	335324	5887942	A2	-	-	-	19	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70360	106940.06	Magnetic	335313	5887918	A2	-	-	-	12	Small asymmetric dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70361	106940.06	Magnetic	335092	5887692	A2	-	-	-	35	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70362	106940.06	Magnetic	335006	5887536	A2	-	-	-	9	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70363	106940.06	Magnetic	334687	5887111	A2	-	-	-	37	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70364	106940.06	Magnetic	334348	5886913	A2	-	-	-	113	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70365	106940.06	Magnetic	334301	5886751	A2	-	-	-	18	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70366	106940.06	Magnetic	333882	5886472	A2	-	-	-	9	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70367	106940.06	Magnetic	333895	5886421	A2	-	-	-	22	Small anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70368	106940.06	Magnetic	333664	5886153	A2	-	-	-	98	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70369	106940.06	Magnetic	333598	5886081	A2	-	-	-	16	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70370	106940.06	Magnetic	333674	5886069	A2	-	-	-	28	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70371	106940.06	Magnetic	333615	5885944	A2	-	-	-	34	Small dipole over two lines. Indicative of possible buried ferrous debris	-
70372	106940.06	Magnetic	333465	5885883	A2	-	-	-	9	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70373	106940.06	Magnetic	333475	5885757	A2	-	-	-	11	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70374	106940.06	Magnetic	333356	5885622	A2	-	-	-	33	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70375	106940.06	Magnetic	333099	5885460	A2	-	-	-	15	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70376	106940.06	Magnetic	332805	5885196	A2	-	-	-	74	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70377	106940.06	Magnetic	332919	5885193	A2	-	-	-	125	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70378	106940.06	Magnetic	332884	5885163	A2	-	-	-	120	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70379	106940.06	Magnetic	332724	5885079	A2	-	-	-	27	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70380	106940.06	Debris	332579	5885040	A2	1.9	0.3	0.4	-	Distinct curvilinear shaped dark reflector with a bright shadow, it appears more anthropogenic than surrounding features on the seabed	-
70381	106940.06	Magnetic	332579	5885010	A2	-	-	-	7	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70382	106940.06	Magnetic	332687	5884989	A2	-	-	-	39	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70383	106940.06	Magnetic	332463	5884833	A2	-	-	-	9	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70384	106940.06	Magnetic	332308	5884732	A2	-	-	-	20	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70385	106940.06	Magnetic	332368	5884723	A2	-	-	-	30	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70386	106940.06	Magnetic	332345	5884697	A2	-	-	-	22	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70387	106940.06	Magnetic	332172	5884619	A2	-	-	-	10	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70388	106940.06	Magnetic	332114	5884513	A2	-	-	-	7	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70389	106940.06	Magnetic	332199	5884452	A2	-	-	-	17	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70390	106940.06	Magnetic	331912	5884320	A2	-	-	-	7	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70391	106940.06	Dark reflector	331939	5884205	A2	1.5	1.2	0.8	-	Distinct short linear dark reflector with a large and long bright shadow, anomalous to the surrounding seabed	-
70392	106940.06	Dark reflector	331908	5884201	A2	1.7	0.4	0.6	-	Distinct rectangular shaped dark reflector with a very bright oval shadow	-
70393	106940.06	Magnetic	331718	5884151	A2	-	-	-	35	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70394	106940.06	Magnetic	331708	5884141	A2	-	-	-	78	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70395	106940.06	Dark reflector	331720	5884133	A2	1.3	0.6	0.3	-	Two very distinct parallel linear dark reflectors with a bright shadow, looks highly anthropogenic on a sandy and even area of the seabed	-
70396	106940.06	Magnetic	331906	5884113	A2	-	-	-	185	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70397	106940.06	Magnetic	331669	5884110	A2	-	-	-	19	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70398	106940.06	Dark reflector	331804	5883984	A2	3.3	1.6	0.7	-	Very distinct triangular shaped feature with a long bright shadow that extends beyond the edge of the data range. Situated in a deep depression	-
70399	106940.06	Magnetic	331590	5883958	A2	-	-	-	27	Small negative monopole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70400	106940.06	Magnetic	331610	5883954	A2	-	-	-	14	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70401	106940.06	Magnetic	331604	5883945	A2	-	-	-	9	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70402	106940.06	Magnetic	331683	5883902	A2	-	-	-	23	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70403	106940.06	Magnetic	331550	5883833	A2	-	-	-	29	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70404	106940.06	Magnetic	331476	5883742	A2	-	-	-	20	Small anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70405	106940.06	Dark reflector	331541	5883718	A2	2.0	0.8	0.8	-	Rounded object with a bright, tapered shadow. Very distinct anomaly on a gravelly area of the seabed	-
70406	106940.06	Debris	331494	5883717	A2	2.7	1.6	0.8	-	Medium sized curvilinear dark reflector with a large, long and bright shadow. Distinct in noisy data, possibly non-ferrous debris	-
70407	106940.06	Magnetic	331421	5883610	A2	-	-	-	66	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70408	106940.06	Magnetic	331341	5883590	A2	-	-	-	23	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70409	106940.06	Magnetic	331188	5883585	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70410	106940.06	Magnetic	331382	5883570	A2	-	-	-	30	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70411	106940.06	Debris	331321	5883554	A2	1.5	0.3	0.5	165	Very distinct short and thin linear dark reflector with a bright and large shadow. Lies in a slight depression. Looks more anthropogenic than surrounding anomalies and has a large magnetic anomaly associated indicating ferrous debris	-
70412	106940.06	Magnetic	331173	5883498	A2	-	-	-	71	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70413	106940.06	Magnetic	331188	5883481	A2	-	-	-	89	Medium negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70414	106940.06	Magnetic	331121	5883391	A2	-	-	-	26	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70415	106940.06	Magnetic	331211	5883388	A2	-	-	-	69	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70416	106940.06	Magnetic	330977	5883383	A2	-	-	-	17	Small asymmetric dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70417	106940.06	Magnetic	330991	5883367	A2	-	-	-	186	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70418	106940.06	Magnetic	331150	5883299	A2	-	-	-	150	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70419	106940.06	Magnetic	330905	5883036	A2	-	-	-	69	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70420	106940.06	Magnetic	330900	5883018	A2	-	-	-	38	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70421	106940.06	Debris	330823	5883010	A2	3.0	1.4	0.8	42	Distinct U-shaped dark reflector with a very long, bright and tapered shadow in noisy data, looks more anthropogenic than surrounding seabed features. Possible ferrous debris with a small magnetic anomaly associated	-
70422	106940.06	Magnetic	330803	5883007	A2	-	-	-	58	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70423	106940.06	Magnetic	330789	5882959	A2	-	-	-	9	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-



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70424	106940.06	Magnetic	330654	5882903	A2	-	-	-	21	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70425	106940.06	Magnetic	330707	5882890	A2	-	-	-	16	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70426	106940.06	Magnetic	330703	5882835	A2	-	-	-	41	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70427	106940.06	Magnetic	330593	5882793	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70428	106940.06	Magnetic	330602	5882786	A2	-	-	-	122	Medium dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70429	106940.06	Magnetic	330335	5882711	A2	-	-	-	29	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70430	106940.06	Magnetic	330305	5882665	A2	-	-	-	24	Small negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70431	106940.06	Dark reflector	330499	5882655	A2	1.2	0.3	0.3	-	Distinct and isolated right angled object with a bright tapered shadow and situated in a depression	-
70432	106940.06	Magnetic	330186	5882623	A2	-	-	-	11	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70433	106940.06	Magnetic	330351	5882614	A2	-	-	-	31	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70434	106940.06	Debris	330149	5882568	A2	1.2	0.2	0.3	-	Distinct possible debris feature. Linear dark reflector in a depression and with a bright square shadow. Looks highly anthropogenic	-
70435	106940.06	Magnetic	330247	5882514	A2	-	-	-	16	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70436	106940.06	Magnetic	329807	5882255	A2	-	-	-	14	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70437	106940.06	Magnetic	329928	5882247	A2	-	-	-	23	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70438	106940.06	Magnetic	329706	5882240	A2	-	-	-	30	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70439	106940.06	Magnetic	329695	5882213	A2	-	-	-	19	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70440	106940.06	Magnetic	329681	5882184	A2	-	-	-	18	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70441	106940.06	Magnetic	329887	5882163	A2	-	-	-	6	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70442	106940.06	Magnetic	329888	5882150	A2	-	-	-	20	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70443	106940.06	Magnetic	329549	5882013	A2	-	-	-	14	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70444	106940.06	Magnetic	329233	5881816	A2	-	-	-	33	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70445	106940.06	Magnetic	328862	5881401	A2	-	-	-	16	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70446	106940.06	Debris	328708	5881343	A2	5.5	2.0	0.4	43	Medium sized distinct ferrous debris feature that appears partially broken up or buried, a distinct dark reflector with shadows. The debris has a possible scour coming from it orientated south and measuring 7m and a small magnetic anomaly associated	-



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70447	106940.06	Magnetic	328538	5880820	A2	-	-	-	85	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70448	106940.06	Magnetic	328671	5880809	A2	-	-	-	333	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70449	106940.06	Magnetic	328566	5880791	A2	-	-	-	120	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70450	106940.06	Magnetic	328592	5880701	A2	-	-	-	62	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70451	106940.06	Magnetic	328638	5880694	A2	-	-	-	167	Large asymmetric dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70452	106940.06	Magnetic	328622	5880680	A2	-	-	-	39	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70453	106940.06	Magnetic	328647	5880647	A2	-	-	-	397	Large asymmetric dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70454	106940.06	Magnetic	328614	5880637	A2	-	-	-	29	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70455	106940.06	Magnetic	328539	5880579	A2	-	-	-	207	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70456	106940.06	Magnetic	328461	5880512	A2	-	-	-	114	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70457	106940.06	Magnetic	328591	5880431	A2	-	-	-	14	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-



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70458	106940.06	Magnetic	328413	5880396	A2	-	-	-	14	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70459	106940.06	Magnetic	328407	5880279	A2	-	-	-	55	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70460	106940.06	Debris	328446	5880237	A2	4.1	0.9	0.4	75	Large V-shaped discrete dark reflector with a very long and bright tapered shadow, likely ferrous debris. Located in a depression and on a gravelly area of the seabed. Has a medium dipole associated identified on more than one survey line	-
70461	106940.06	Debris	328551	5880153	A2	4.2	2.2	0.3	-	Triangular shaped debris visible as a distinct dark reflector with more diffuse parts surrounding it, feature has a long and thin tapered shadow and is situated in a depression. Anthropogenic looking possible non-ferrous debris. Visible in the bathymetry data as a small feature in a depression on an otherwise featureless seabed	-
70462	106940.06	Magnetic	328527	5880141	A2	-	-	-	14	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70463	106940.06	Debris	328366	5879871	A2	3.9	1.0	0.4	-	Very distinctive curvilinear feature, either one or two distinct dark reflectors with very bright shadows on a sandy and gravelly area of the seabed	-
70464	106940.06	Magnetic	328400	5879865	A2	-	-	-	138	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70465	106940.06	Dark reflector	328477	5879758	A2	1.5	0.6	0.3	-	V-shaped discrete feature with a bright and tapered shadow	-



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70466	106940.06	Debris	328342	5879749	A2	1.3	0.3	0.5	-	Distinct thick linear dark reflector with a long bright and tapered shadow, possibly in a slight depression. Adjacent to similar dark reflector (70467), both isolated on a sandy seabed	-
70467	106940.06	Debris	328340	5879745	A2	2.1	0.7	0.7	-	Distinct thick linear dark reflector with a long bright and tapered shadow, possibly in a slight depression. Adjacent to similar dark reflector (70466), both isolated on a sandy seabed	-
70468	106940.06	Dark reflector	328331	5879641	A2	1.8	0.5	0.7	-	Distinct linear dark reflector with a long and bright rectangular shadow. Although located in an area of the seabed with frequent anomalies, this looks more anthropogenic	-
70469	106940.06	Dark reflector	328335	5879633	A2	1.6	0.6	0.5	-	Distinct linear feature, possible partially broken up or buried in a slight depression and with a bright rectangular shadow	-
70470	106940.06	Dark reflector	328429	5879629	A2	1.6	0.5	0.4	-	Linear distinct anomaly with a long, bright and tapered shadow, isolated feature	-
70471	106940.06	Dark reflector	328340	5879629	A2	2.8	2.2	0.5	-	Medium sized feature with a distinct and bright shadow. Appears possibly broken up or buried on a sandy and gravelly area of the seabed	-
70472	106940.06	Dark reflector	328328	5879596	A2	2.0	0.3	0.3	-	Thin and slightly curvilinear shaped feature with a short, bright shadow. Located on an area of the seabed with frequent boulders though this looks more anthropogenic	-



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70473	106940.06	Debris	328413	5879593	A2	3.3	0.8	0.2	29	Medium sized dark reflector, possibly broken up or partially buried, with an irregular shaped shadow. Small asymmetric dipole associated indicating ferrous debris	-
70474	106940.06	Debris	328332	5879588	A2	1.8	1.2	0.4	-	Possible debris feature, a distinct V-shaped dark reflector with a bright long shadow	-
70475	106940.06	Magnetic	328299	5879569	A2	-	-	-	512	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70476	106940.06	Magnetic	328420	5879543	A2	-	-	-	34	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70477	106940.06	Magnetic	328344	5879535	A2	-	-	-	75	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70478	106940.06	Debris	328418	5879519	A2	3.0	1.1	0.6	-	Distinct hard-edged right-angled dark reflector with a very long and bright tapered shadow, possibly two separate features in one place	-
70479	106940.06	Magnetic	328364	5879517	A2	-	-	-	571	Large dipole identified on more than one survey line, although much smaller on adjacent line. Indicative of possible substantial buried ferrous debris	-
70480	106940.06	Magnetic	328262	5879514	A2	-	-	-	76	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70481	106940.06	Magnetic	328222	5879339	A2	-	-	-	36	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70482	106940.06	Magnetic	328213	5879271	A2	-	-	-	87	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70483	106940.06	Magnetic	328221	5879260	A2	-	-	-	67	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70484	106940.06	Magnetic	328326	5879183	A2	-	-	-	19	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70485	106940.06	Magnetic	328309	5879054	A2	-	-	-	147	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70486	106940.06	Magnetic	328235	5878807	A2	-	-	-	107	Medium positive monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70487	106940.06	Magnetic	328111	5878803	A2	-	-	-	30	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70488	106940.06	Magnetic	328161	5878795	A2	-	-	-	21	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70489	106940.06	Magnetic	328184	5878784	A2	-	-	-	81	Medium dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70490	106940.06	Magnetic	328217	5878783	A2	-	-	-	48	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70491	106940.06	Dark reflector	328040	5878742	A2	2.0	0.6	0.6	-	Discreet V-shaped dark reflector with a bright and tapered shadow, located on a gravelly area of the seabed	-
70492	106940.06	Magnetic	328031	5878731	A2	-	-	-	57	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70493	106940.06	Bright reflector	328036	5878704	A2	1.2	1.0	0	-	Distinctive rectangular shaped area of low reflectivity anomalous to the surrounding seabed. Non-ferrous feature	-
70494	106940.06	Magnetic	327521	5878459	A2	-	-	-	22	Small negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70495	106940.06	Magnetic	327433	5878365	A2	-	-	-	132	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70496	106940.06	Magnetic	327370	5878357	A2	-	-	-	39	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70497	106940.06	Magnetic	327425	5878291	A2	-	-	-	24	Small positive monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70498	106940.06	Magnetic	327438	5878285	A2	-	-	-	72	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70499	106940.06	Magnetic	327528	5878284	A2	-	-	-	22	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70500	106940.06	Magnetic	327427	5878222	A2	-	-	-	14	Small asymmetric dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70501	106940.06	Magnetic	327397	5878204	A2	-	-	-	11	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70502	106940.06	Magnetic	327210	5878154	A2	-	-	-	68	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70503	106940.06	Magnetic	327314	5878127	A2	-	-	-	18	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70504	106940.06	Magnetic	327264	5878045	A2	-	-	-	9	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70505	106940.06	Magnetic	327249	5878017	A2	-	-	-	98	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70506	106940.06	Magnetic	327242	5877923	A2	-	-	-	149	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70507	106940.06	Magnetic	327084	5877809	A2	-	-	-	34	Small symmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70508	106940.06	Magnetic	326994	5877797	A2	-	-	-	10	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70509	106940.06	Magnetic	326985	5877726	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70510	106940.06	Magnetic	327028	5877661	A2	-	-	-	26	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70511	106940.06	Magnetic	326949	5877590	A2	-	-	-	29	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70512	106940.06	Magnetic	327059	5877536	A2	-	-	-	28	Small irregular anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70513	106940.06	Magnetic	327002	5877455	A2	-	-	-	8	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70514	106940.06	Magnetic	326830	5877428	A2	-	-	-	17	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70515	106940.06	Magnetic	326758	5877124	A2	-	-	-	15	Small symmetric dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70516	106940.06	Magnetic	326577	5877012	A2	-	-	-	14	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70517	106940.06	Magnetic	326712	5876989	A2	-	-	-	47	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70518	106940.06	Magnetic	326655	5876917	A2	-	-	-	33	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70519	106940.06	Magnetic	326535	5876877	A2	-	-	-	24	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-



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70520	106940.06	Magnetic	326474	5876845	A2	-	-	-	44	Small anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70521	106940.06	Magnetic	326586	5876781	A2	-	-	-	10	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70522	106940.06	Magnetic	326424	5876743	A2	-	-	-	36	Small anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70523	106940.06	Magnetic	326450	5876737	A2	-	-	-	17	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70524	106940.06	Magnetic	326357	5876694	A2	-	-	-	13	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70525	106940.06	Magnetic	326405	5876643	A2	-	-	-	25	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70526	106940.06	Magnetic	326495	5876627	A2	-	-	-	9	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70527	106940.06	Magnetic	326298	5876591	A2	-	-	-	10	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70528	106940.06	Magnetic	326271	5876564	A2	-	-	-	6	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70529	106940.06	Magnetic	326221	5876331	A2	-	-	-	24	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70530	106940.06	Magnetic	326078	5876242	A2	-	-	-	26	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70531	106940.06	Magnetic	326124	5876205	A2	-	-	-	25	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70532	106940.06	Magnetic	326206	5876185	A2	-	-	-	11	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70533	106940.06	Magnetic	326082	5876138	A2	-	-	-	6	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70534	106940.06	Magnetic	326135	5876087	A2	-	-	-	229	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70535	106940.06	Magnetic	326072	5876013	A2	-	-	-	26	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70536	106940.06	Magnetic	326062	5875941	A2	-	-	-	34	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70537	106940.06	Magnetic	325846	5875931	A2	-	-	-	50	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70538	106940.06	Magnetic	325948	5875916	A2	-	-	-	132	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70539	106940.06	Magnetic	325845	5875911	A2	-	-	-	25	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70540	106940.06	Magnetic	325860	5875901	A2	-	-	-	74	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70541	106940.06	Magnetic	325787	5875871	A2	-	-	-	102	Medium negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70542	106940.06	Magnetic	325636	5875864	A2	-	-	-	55	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70543	106940.06	Magnetic	325742	5875862	A2	-	-	-	66	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



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70544	106940.06	Magnetic	325795	5875839	A2	-	-	-	388	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70545	106940.06	Magnetic	325842	5875821	A2	-	-	-	215	Large asymmetric dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70546	106940.06	Magnetic	325888	5875794	A2	-	-	-	124	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70547	106940.06	Magnetic	325788	5875728	A2	-	-	-	54	Medium monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70548	106940.06	Magnetic	325363	5875707	A2	-	-	-	23	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70549	106940.06	Magnetic	325296	5875704	A2	-	-	-	13	Small negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70550	106940.06	Magnetic	325678	5875692	A2	-	-	-	11	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70551	106940.06	Magnetic	325222	5875689	A2	-	-	-	30	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70552	106940.06	Magnetic	325251	5875647	A2	-	-	-	17	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70553	106940.06	Magnetic	324945	5875584	A2	-	-	-	16	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70554	106940.06	Magnetic	324819	5875425	A2	-	-	-	31	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70555	106940.06	Magnetic	324728	5875345	A2	-	-	-	45	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70556	106940.06	Magnetic	324335	5875313	A2	-	-	-	65	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70557	106940.06	Magnetic	324523	5875272	A2	-	-	-	742	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70558	106940.06	Magnetic	324216	5875269	A2	-	-	-	10	Small symmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70559	106940.06	Magnetic	324263	5875195	A2	-	-	-	50	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70560	106940.06	Magnetic	324389	5875177	A2	-	-	-	32	Small asymmetric dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70561	106940.06	Magnetic	324331	5875170	A2	-	-	-	6	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70562	106940.06	Magnetic	324369	5875167	A2	-	-	-	149	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70563	106940.06	Magnetic	324135	5875138	A2	-	-	-	73	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70564	106940.06	Magnetic	323924	5875138	A2	-	-	-	37	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70565	106940.06	Magnetic	324048	5875137	A2	-	-	-	36	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70566	106940.06	Magnetic	324083	5875132	A2	-	-	-	40	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70567	106940.06, 106940.03	Debris field	324095	5875078	A2	7.1	3.0	1.0	490	Compact area of possible debris made up of approx. 6 small hard edged dark reflectors with a bright shadow and in a depression. Very small anomalies with 0.6m being the largest. Large magnetic anomaly associated indicative of ferrous debris, observed as 105nT in previous data assessment. Size of magnetic anomaly indicates a substantial amount of ferrous material may be present, some of which could be buried. Not revisited in the 2015 sidescan	-
70568	106940.06	Magnetic	324143	5875071	A2	-	-	-	64	Medium negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70569	106940.06	Magnetic	323801	5875070	A2	-	-	-	39	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70570	106940.06	Magnetic	324127	5875065	A2	-	-	-	67	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70571	106940.06	Magnetic	324169	5875064	A2	-	-	-	118	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70572	106940.06	Magnetic	324103	5875045	A2	-	-	-	38	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70573	106940.06	Magnetic	323769	5875042	A2	-	-	-	70	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70574	106940.06	Magnetic	323596	5875023	A2	-	-	-	41	Small asymmetric dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70575	106940.06	Magnetic	324039	5875023	A2	-	-	-	19	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70576	106940.06	Magnetic	324042	5874994	A2	-	-	-	76	Medium negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70577	106940.06	Magnetic	323521	5874991	A2	-	-	-	60	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70578	106940.06	Magnetic	323623	5874990	A2	-	-	-	118	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70579	106940.06	Magnetic	323893	5874976	A2	-	-	-	56	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70580	106940.06	Magnetic	323435	5874945	A2	-	-	-	37	Small positive monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70581	106940.06	Magnetic	323632	5874936	A2	-	-	-	24	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70582	106940.06	Magnetic	323540	5874925	A2	-	-	-	22	Small positive monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70583	106940.06	Magnetic	323391	5874921	A2	-	-	-	33	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70584	106940.06	Magnetic	323590	5874911	A2	-	-	-	22	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70585	106940.06	Magnetic	323526	5874892	A2	-	-	-	74	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70586	106940.06	Magnetic	323258	5874860	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70587	106940.06	Magnetic	323603	5874849	A2	-	-	-	25	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70588	106940.06	Magnetic	323618	5874846	A2	-	-	-	327	Large asymmetric dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70589	106940.06	Magnetic	323048	5874775	A2	-	-	-	33	Small positive monopole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70590	106940.06	Magnetic	323487	5874770	A2	-	-	-	37	Small negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70591	106940.06	Magnetic	323127	5874764	A2	-	-	-	22	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70592	106940.06	Magnetic	323257	5874717	A2	-	-	-	22	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70593	106940.06	Magnetic	322929	5874688	A2	-	-	-	57	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70594	106940.06	Magnetic	323192	5874681	A2	-	-	-	15	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70595	106940.06	Magnetic	323163	5874657	A2	-	-	-	55	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70596	106940.06	Magnetic	322759	5874575	A2	-	-	-	15	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70597	106940.06	Magnetic	322783	5874567	A2	-	-	-	25	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70598	106940.06	Magnetic	322498	5874434	A2	-	-	-	11	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70599	106940.06	Magnetic	322777	5874419	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70600	106940.06	Magnetic	322442	5874324	A2	-	-	-	47	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70601	106940.06	Magnetic	322508	5874314	A2	-	-	-	35	Small negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70602	106940.06	Magnetic	322558	5874274	A2	-	-	-	10	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70603	106940.06	Magnetic	322382	5874259	A2	-	-	-	19	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70604	106940.06	Magnetic	322453	5874207	A2	-	-	-	11	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70605	106940.06	Magnetic	322391	5874188	A2	-	-	-	9	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70606	106940.06	Magnetic	322328	5874156	A2	-	-	-	8	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70607	106940.06	Magnetic	322327	5874105	A2	-	-	-	5	Small symmetric dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70608	106940.06	Magnetic	322129	5874052	A2	-	-	-	12	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70609	106940.06	Magnetic	321991	5873966	A2	-	-	-	14	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70610	106940.06	Magnetic	322151	5873914	A2	-	-	-	7	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70611	106940.06	Magnetic	322104	5873878	A2	-	-	-	47	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70612	106940.06	Magnetic	322046	5873857	A2	-	-	-	9	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70613	106940.06	Magnetic	321969	5873847	A2	-	-	-	17	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70614	106940.06	Magnetic	321790	5873590	A2	-	-	-	15	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70615	106940.06	Magnetic	321791	5873569	A2	-	-	-	49	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70616	106940.06	Magnetic	321855	5873535	A2	-	-	-	12	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70617	106940.06	Magnetic	321656	5873398	A2	-	-	-	79	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70618	106940.06	Magnetic	321708	5873389	A2	-	-	-	16	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70619	106940.06	Magnetic	321697	5873334	A2	-	-	-	11	Small anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70620	106940.06	Magnetic	321559	5873331	A2	-	-	-	37	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70621	106940.06	Magnetic	321578	5873295	A2	-	-	-	14	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70622	106940.06	Magnetic	321549	5873271	A2	-	-	-	12	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70623	106940.06	Magnetic	321545	5873183	A2	-	-	-	23	Small negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70624	106940.06	Magnetic	321531	5873181	A2	-	-	-	14	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70625	106940.06	Magnetic	321491	5873026	A2	-	-	-	20	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70626	106940.06	Magnetic	321475	5872957	A2	-	-	-	65	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70627	106940.06	Magnetic	321415	5872892	A2	-	-	-	59	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70628	106940.06	Magnetic	321384	5872888	A2	-	-	-	22	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70629	106940.06	Magnetic	321243	5872783	A2	-	-	-	9	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70630	106940.06	Magnetic	321323	5872727	A2	-	-	-	17	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70631	106940.06	Magnetic	321166	5872678	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70632	106940.06	Magnetic	321159	5872666	A2	-	-	-	8	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70633	106940.06	Magnetic	321148	5872664	A2	-	-	-	15	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70634	106940.06	Magnetic	321099	5872597	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70635	106940.06	Magnetic	321218	5872557	A2	-	-	-	15	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70636	106940.06	Magnetic	321183	5872509	A2	-	-	-	15	Small anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70637	106940.06	Magnetic	321041	5872474	A2	-	-	-	55	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70638	106940.06	Magnetic	321070	5872470	A2	-	-	-	74	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70639	106940.06	Magnetic	321093	5872461	A2	-	-	-	21	Small anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70640	106940.06	Magnetic	321069	5872394	A2	-	-	-	24	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70641	106940.06	Magnetic	320848	5872323	A2	-	-	-	10	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70642	106940.06	Magnetic	320945	5872206	A2	-	-	-	143	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70643	106940.06	Magnetic	320885	5872149	A2	-	-	-	11	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70644	106940.06	Magnetic	320936	5872134	A2	-	-	-	10	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70645	106940.06	Magnetic	320920	5872131	A2	-	-	-	14	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70646	106940.06	Magnetic	320824	5872113	A2	-	-	-	57	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70647	106940.06	Magnetic	320843	5872018	A2	-	-	-	182	Large asymmetric dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70648	106940.06	Magnetic	320810	5871973	A2	-	-	-	90	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70649	106940.06	Magnetic	320763	5871959	A2	-	-	-	46	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70650	106940.06	Magnetic	320725	5871949	A2	-	-	-	76	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70651	106940.06	Magnetic	320625	5871932	A2	-	-	-	181	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70652	106940.06	Magnetic	320630	5871811	A2	-	-	-	24	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70653	106940.06	Magnetic	320640	5871700	A2	-	-	-	48	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70654	106940.06	Magnetic	320502	5871675	A2	-	-	-	8	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70655	106940.06	Magnetic	320484	5871646	A2	-	-	-	8	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70656	106940.06	Magnetic	320384	5871477	A2	-	-	-	53	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70657	106940.06	Magnetic	320348	5871468	A2	-	-	-	16	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70658	106940.06	Magnetic	320373	5871463	A2	-	-	-	31	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70659	106940.06	Magnetic	320341	5871420	A2	-	-	-	47	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70660	106940.06	Magnetic	320238	5871419	A2	-	-	-	218	Large asymmetric dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70661	106940.06	Magnetic	320241	5871370	A2	-	-	-	30	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70662	106940.06	Magnetic	320198	5871366	A2	-	-	-	22	Small negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70663	106940.06	Magnetic	320352	5871276	A2	-	-	-	47	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70664	106940.06	Magnetic	320319	5871231	A2	-	-	-	19	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70665	106940.06	Magnetic	320018	5871070	A2	-	-	-	53	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70666	106940.06	Magnetic	320122	5871053	A2	-	-	-	12	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70667	106940.06	Magnetic	319932	5870964	A2	-	-	-	11	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70668	106940.06	Magnetic	320123	5870955	A2	-	-	-	47	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70669	106940.06	Magnetic	319818	5870734	A2	-	-	-	14	Small asymmetric dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70670	106940.06	Magnetic	319739	5870659	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70671	106940.06	Magnetic	319823	5870513	A2	-	-	-	31	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70672	106940.06	Magnetic	319786	5870496	A2	-	-	-	43	Small asymmetric dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70673	106940.06	Magnetic	319768	5870454	A2	-	-	-	56	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70674	106940.06	Magnetic	319589	5870432	A2	-	-	-	225	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70675	106940.06	Magnetic	319343	5869937	A2	-	-	-	5	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70676	106940.06	Magnetic	319336	5869778	A2	-	-	-	70	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70677	106940.06	Magnetic	319263	5869705	A2	-	-	-	47	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70678	106940.06	Magnetic	319162	5869569	A2	-	-	-	10	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70679	106940.06	Magnetic	319169	5869517	A2	-	-	-	10	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70680	106940.06	Magnetic	319034	5869495	A2	-	-	-	13	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70681	106940.06	Magnetic	319005	5869458	A2	-	-	-	13	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70682	106940.06	Magnetic	319122	5869453	A2	-	-	-	40	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70683	106940.06	Magnetic	319085	5869448	A2	-	-	-	43	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70684	106940.06	Magnetic	318991	5869395	A2	-	-	-	10	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70685	106940.06	Magnetic	319015	5869381	A2	-	-	-	41	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70686	106940.06	Magnetic	319019	5869343	A2	-	-	-	190	Large asymmetric dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70687	106940.06	Magnetic	319014	5869318	A2	-	-	-	101	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70688	106940.06	Magnetic	318945	5869282	A2	-	-	-	21	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70689	106940.06	Magnetic	318999	5869275	A2	-	-	-	19	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70690	106940.06	Magnetic	319029	5869254	A2	-	-	-	34	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70691	106940.06	Magnetic	318983	5869205	A2	-	-	-	15	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70692	106940.06	Magnetic	319004	5869169	A2	-	-	-	12	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70693	106940.06	Magnetic	317607	5866665	A2	-	-	-	14	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70694	106940.06	Magnetic	317600	5866637	A2	-	-	-	20	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70695	106940.06	Magnetic	317513	5866552	A2	-	-	-	7	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70696	106940.06	Magnetic	317535	5866494	A2	-	-	-	61	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70697	106940.06	Magnetic	317358	5866464	A2	-	-	-	29	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70698	106940.06	Magnetic	317299	5866381	A2	-	-	-	89	Medium asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70699	106940.06	Magnetic	317413	5866301	A2	-	-	-	336	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70700	106940.06	Magnetic	317247	5866281	A2	-	-	-	37	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70701	106940.06	Magnetic	317344	5866148	A2	-	-	-	7	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70702	106940.06	Magnetic	317169	5866114	A2	-	-	-	22	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70703	106940.06	Magnetic	317235	5866104	A2	-	-	-	5	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70704	106940.06	Magnetic	317185	5866102	A2	-	-	-	26	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70705	106940.06	Magnetic	317032	5865777	A2	-	-	-	22	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70706	106940.06	Magnetic	316941	5865736	A2	-	-	-	77	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70707	106940.06	Magnetic	317067	5865662	A2	-	-	-	11	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70708	106940.06	Magnetic	316813	5865519	A2	-	-	-	24	Small anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70709	106940.06	Magnetic	316973	5865476	A2	-	-	-	13	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70710	106940.06	Magnetic	316753	5865387	A2	-	-	-	14	Small negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70711	106940.06	Magnetic	316711	5865314	A2	-	-	-	8	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70712	106940.06	Magnetic	316803	5865251	A2	-	-	-	13	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70713	106940.06	Magnetic	316746	5865230	A2	-	-	-	19	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70714	106940.06	Magnetic	316607	5865140	A2	-	-	-	60	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70715	106940.06	Magnetic	316704	5865082	A2	-	-	-	27	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70716	106940.06	Magnetic	316612	5864937	A2	-	-	-	19	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70717	106940.06	Magnetic	316529	5864915	A2	-	-	-	67	Medium dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70718	106940.06	Magnetic	316430	5864711	A2	-	-	-	21	Small positive monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70719	106940.06	Magnetic	316338	5864615	A2	-	-	-	58	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70720	106940.06	Magnetic	316354	5864593	A2	-	-	-	11	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70721	106940.06	Magnetic	316373	5864549	A2	-	-	-	22	Small anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70722	106940.06	Magnetic	316214	5864393	A2	-	-	-	112	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70723	106940.06, 106940.03	Magnetic	316234	5864376	A2	-	-	-	389	Large dipole identified on more than one survey line, identified in previous survey as 8nT. Indicative of possible substantial buried ferrous debris	-
70724	106940.06	Magnetic	316167	5864349	A2	-	-	-	22	Small anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70725	106940.06	Magnetic	316127	5864336	A2	-	-	-	33	Small positive monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70726	106940.06	Magnetic	316229	5864284	A2	-	-	-	21	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70727	106940.06	Magnetic	316073	5864228	A2	-	-	-	12	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70728	106940.06	Magnetic	316062	5864150	A2	-	-	-	29	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70729	106940.06	Magnetic	316120	5864115	A2	-	-	-	30	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70730	106940.06	Magnetic	316130	5864114	A2	-	-	-	44	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70731	106940.06	Magnetic	316067	5864112	A2	-	-	-	12	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70732	106940.06	Magnetic	316051	5864098	A2	-	-	-	14	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70733	106940.06	Magnetic	315994	5864085	A2	-	-	-	8	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70734	106940.06	Magnetic	316059	5864077	A2	-	-	-	16	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70735	106940.06	Magnetic	316036	5864028	A2	-	-	-	24	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70736	106940.06	Magnetic	315940	5863944	A2	-	-	-	22	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70737	106940.06	Magnetic	315904	5863847	A2	-	-	-	13	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70738	106940.06	Magnetic	316023	5863846	A2	-	-	-	15	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70739	106940.06	Magnetic	315987	5863790	A2	-	-	-	71	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70740	106940.06	Magnetic	315931	5863788	A2	-	-	-	49	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70741	106940.06	Magnetic	315854	5863732	A2	-	-	-	20	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70742	106940.06	Magnetic	315918	5863727	A2	-	-	-	27	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70743	106940.06	Magnetic	315802	5863726	A2	-	-	-	58	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70744	106940.06	Magnetic	315831	5863717	A2	-	-	-	9	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70745	106940.06	Magnetic	315890	5863699	A2	-	-	-	93	Medium positive monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70746	106940.06	Magnetic	315880	5863681	A2	-	-	-	22	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70747	106940.06	Magnetic	315789	5863669	A2	-	-	-	18	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70748	106940.06	Magnetic	315799	5863585	A2	-	-	-	17	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70749	106940.06	Magnetic	315807	5863585	A2	-	-	-	9	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70750	106940.06	Magnetic	315852	5863568	A2	-	-	-	21	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70751	106940.06	Magnetic	315751	5863500	A2	-	-	-	44	Small negative monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70752	106940.06	Magnetic	315557	5863205	A2	-	-	-	38	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70753	106940.06	Magnetic	315602	5863194	A2	-	-	-	21	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70754	106940.06	Magnetic	315659	5863142	A2	-	-	-	37	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70755	106940.06	Magnetic	315618	5863106	A2	-	-	-	36	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70756	106940.06	Magnetic	315592	5863089	A2	-	-	-	9	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70757	106940.06	Magnetic	315413	5862988	A2	-	-	-	46	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70758	106940.06	Magnetic	315440	5862963	A2	-	-	-	14	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70759	106940.06	Magnetic	315408	5862944	A2	-	-	-	88	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70760	106940.06	Magnetic	315476	5862942	A2	-	-	-	34	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70761	106940.06	Magnetic	315489	5862941	A2	-	-	-	189	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70762	106940.06	Magnetic	315492	5862888	A2	-	-	-	10	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70763	106940.06	Magnetic	315397	5862879	A2	-	-	-	138	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70764	106940.06	Magnetic	315484	5862868	A2	-	-	-	133	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70765	106940.06	Magnetic	315316	5862840	A2	-	-	-	160	Large asymmetric dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70766	106940.06	Magnetic	315407	5862830	A2	-	-	-	159	Large asymmetric dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70767	106940.06	Magnetic	315426	5862764	A2	-	-	-	63	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70768	106940.06	Magnetic	315400	5862747	A2	-	-	-	15	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70769	106940.06	Magnetic	315240	5862688	A2	-	-	-	43	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70770	106940.06	Magnetic	315316	5862647	A2	-	-	-	475	Large dipole identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70771	106940.06	Magnetic	315356	5862623	A2	-	-	-	55	Medium anomaly identified on more than one survey line. Indicative of possible buried ferrous debris	-
70772	106940.06	Magnetic	315331	5862561	A2	-	-	-	356	Large anomaly identified on more than one survey line. Indicative of possible substantial buried ferrous debris	-
70773	106940.06	Magnetic	315299	5862546	A2	-	-	-	36	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70774	106940.06	Magnetic	315244	5862471	A2	-	-	-	34	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70775	106940.06	Magnetic	315145	5862461	A2	-	-	-	46	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70776	106940.06	Magnetic	315143	5862452	A2	-	-	-	45	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70777	106940.06	Magnetic	315228	5862440	A2	-	-	-	27	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-



WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70778	106940.06	Magnetic	315233	5862431	A2	-	-	-	19	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70779	106940.06	Magnetic	315206	5862431	A2	-	-	-	24	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70780	106940.06	Magnetic	315185	5862330	A2	-	-	-	26	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70781	106940.06	Magnetic	315165	5862329	A2	-	-	-	718	Large dipole identified on more than one survey line, much smaller on adjacent line. Indicative of possible substantial buried ferrous debris	-
70782	106940.06	Magnetic	315107	5862327	A2	-	-	-	9	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70783	106940.06	Magnetic	315066	5862208	A2	-	-	-	68	Medium dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70784	106940.06	Magnetic	314742	5861112	A2	-	-	-	44	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70785	106940.06	Magnetic	314739	5861066	A2	-	-	-	21	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70786	106940.06	Magnetic	314553	5860080	A2	-	-	-	6	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70787	106940.06	Magnetic	314474	5859947	A2	-	-	-	6	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70788	106940.06	Magnetic	314433	5859817	A2	-	-	-	8	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70789	106940.06	Magnetic	314437	5859776	A2	-	-	-	6	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-

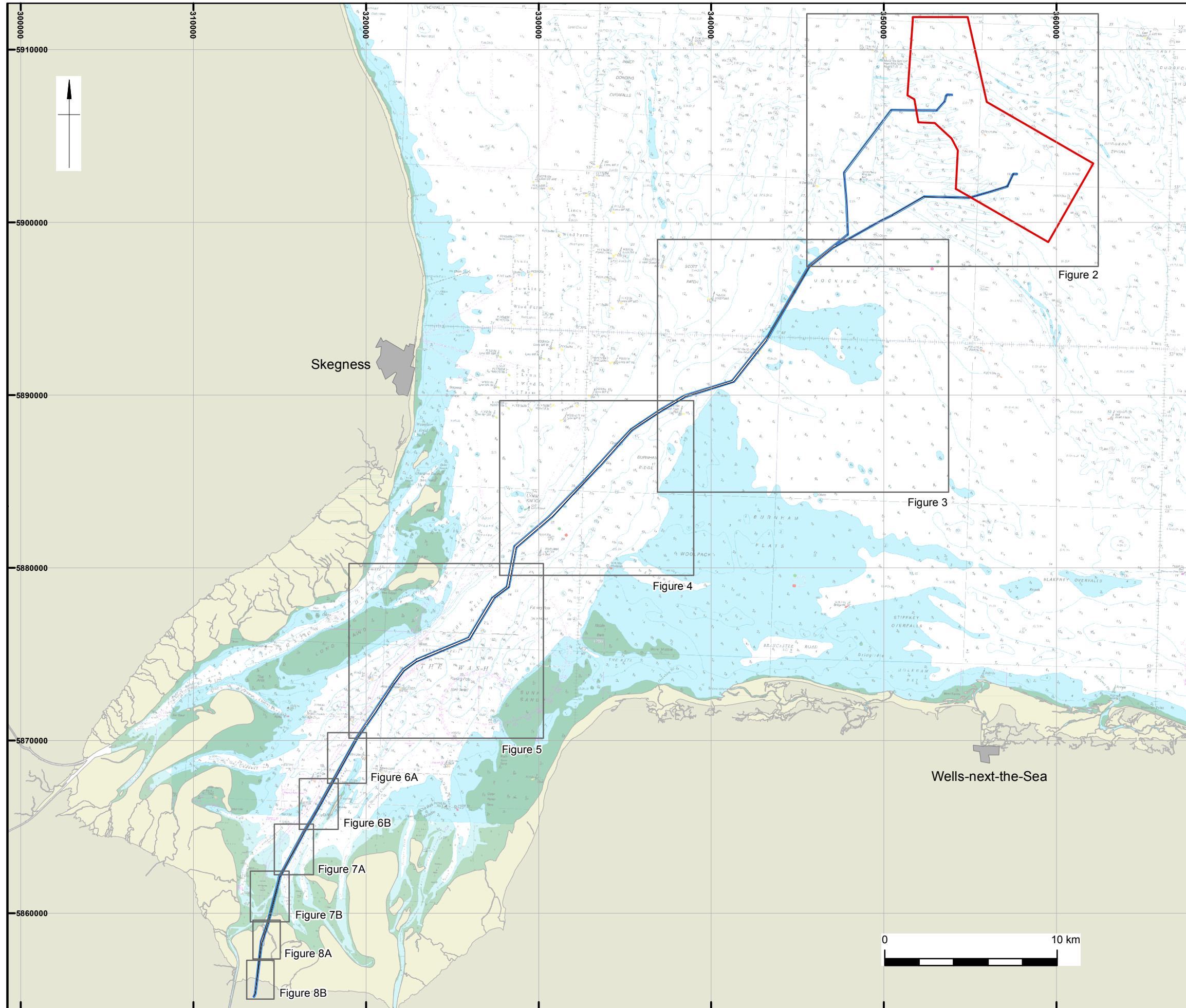


WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70790	106940.06	Magnetic	314325	5859259	A2	-	-	-	17	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70791	106940.06	Magnetic	314269	5859160	A2	-	-	-	7	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70792	106940.06	Magnetic	314168	5859040	A2	-	-	-	10	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70793	106940.06	Magnetic	313893	5858267	A2	-	-	-	9	Small symmetric dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70794	106940.06	Magnetic	313926	5858196	A2	-	-	-	8	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70795	106940.06	Magnetic	313984	5858180	A2	-	-	-	8	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70796	106940.06	Magnetic	313928	5858049	A2	-	-	-	9	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70797	106940.06	Magnetic	313946	5857771	A2	-	-	-	11	Small asymmetric dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70798	106940.06	Magnetic	313777	5857272	A2	-	-	-	8	Small dipole not identified on adjacent survey lines. Indicative of possible buried ferrous debris	-
70799	106940.06	Magnetic	313770	5857192	A2	-	-	-	19	Small positive monopole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70800	106940.06	Magnetic	313716	5856884	A2	-	-	-	42	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-
70801	106940.06	Magnetic	313769	5856843	A2	-	-	-	14	Small dipole identified on more than one survey line. Indicative of possible buried ferrous debris	-

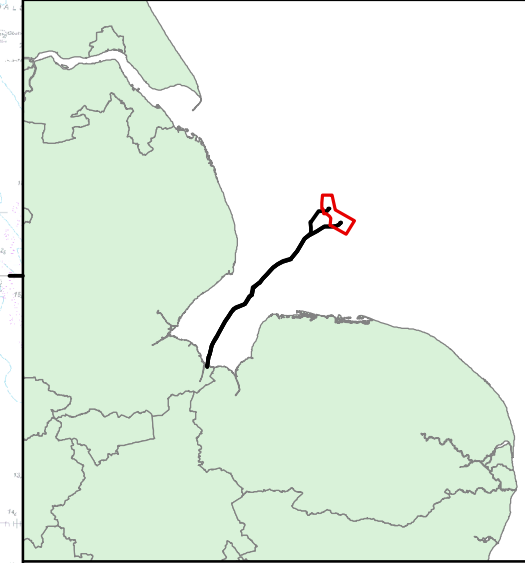


WA ID	Project No	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	External Ref
70802	106940.06, 106940.03	Mound	323507	5874826	A1	15.0	2.8	1.1	237	Large linear mound feature orientated northeast to southwest on an uneven area of the seabed. It has a large magnetic anomaly associated with it indicating it contains ferrous material. In the sidescan data no particular structure is seen but the mound has a distinct and bright shadow with some small dark reflectors with height in a linear alignment along part of the feature. In the bathymetry data 8m of the feature appears more upstanding and possibly more exposed than the remainder, which is lower and possibly buried by sediments. Possible buried wreck.	FE15_MC_8024

1. Coordinates are in ETRS89 UTM31N
2. Positional accuracy estimated $\pm 10\text{m}$



Race Bank
Offshore Wind Farm



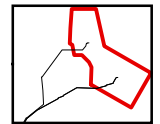
- Race Bank Offshore Wind Farm
- Export Cable Route
- Archaeological Study Area



Drawing projection: ETRS89 UTM31N
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Date:	25/01/2016
Revision Number:	0
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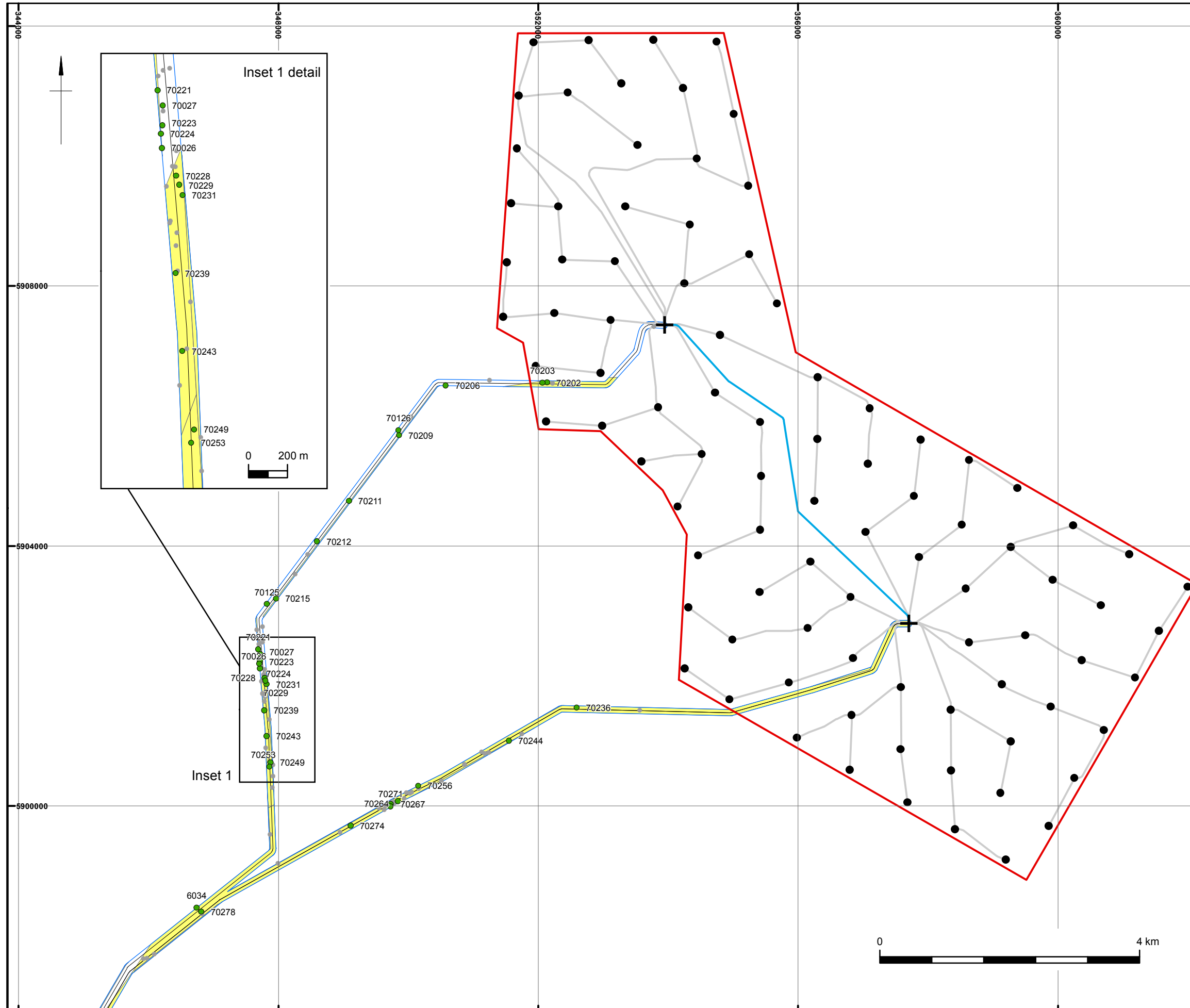
- Race Bank Offshore Wind Farm
- WTGs
- + Sub-stations
- Export Cable Route
- HV Interlink
- Inter Array Cables
- Archaeological Study Area
- Areas assessed in sidescan sonar and bathymetry
- A2 – Uncertain origin of possible archaeological potential
- Small A2 magnetic anomaly <50nT



Drawing projection: ETRS89 UTM31N

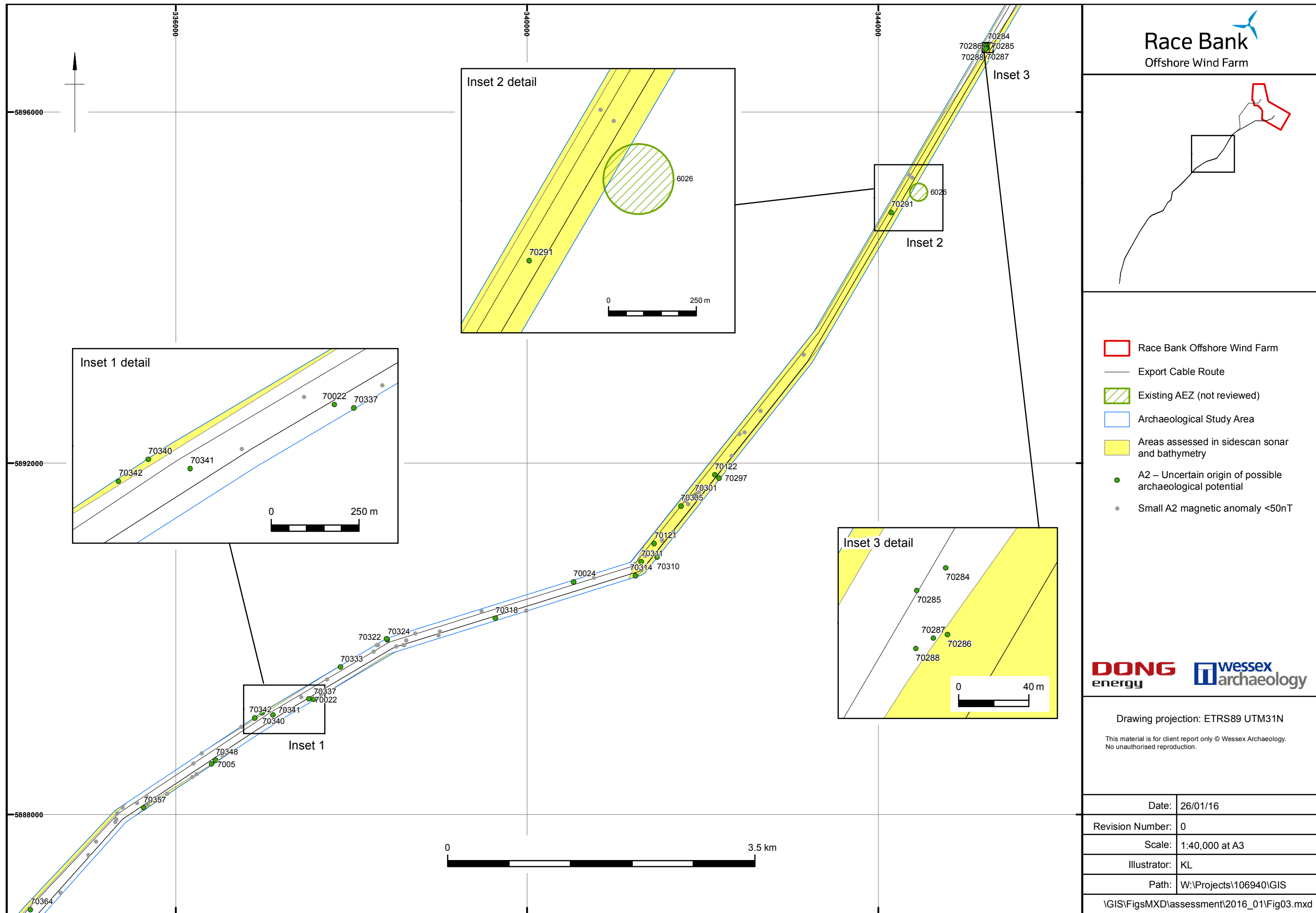
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Illustrator:	KL
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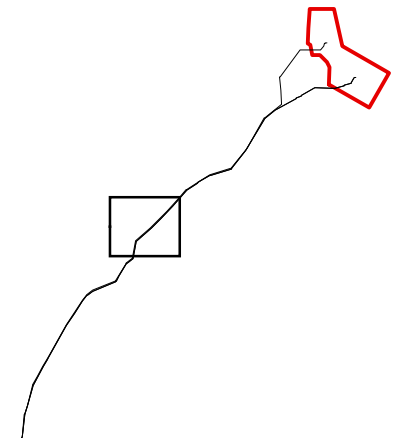
Seabed Features of Archaeological Potential

Figure 2



Seabed Features of Archaeological Potential

Figure 3

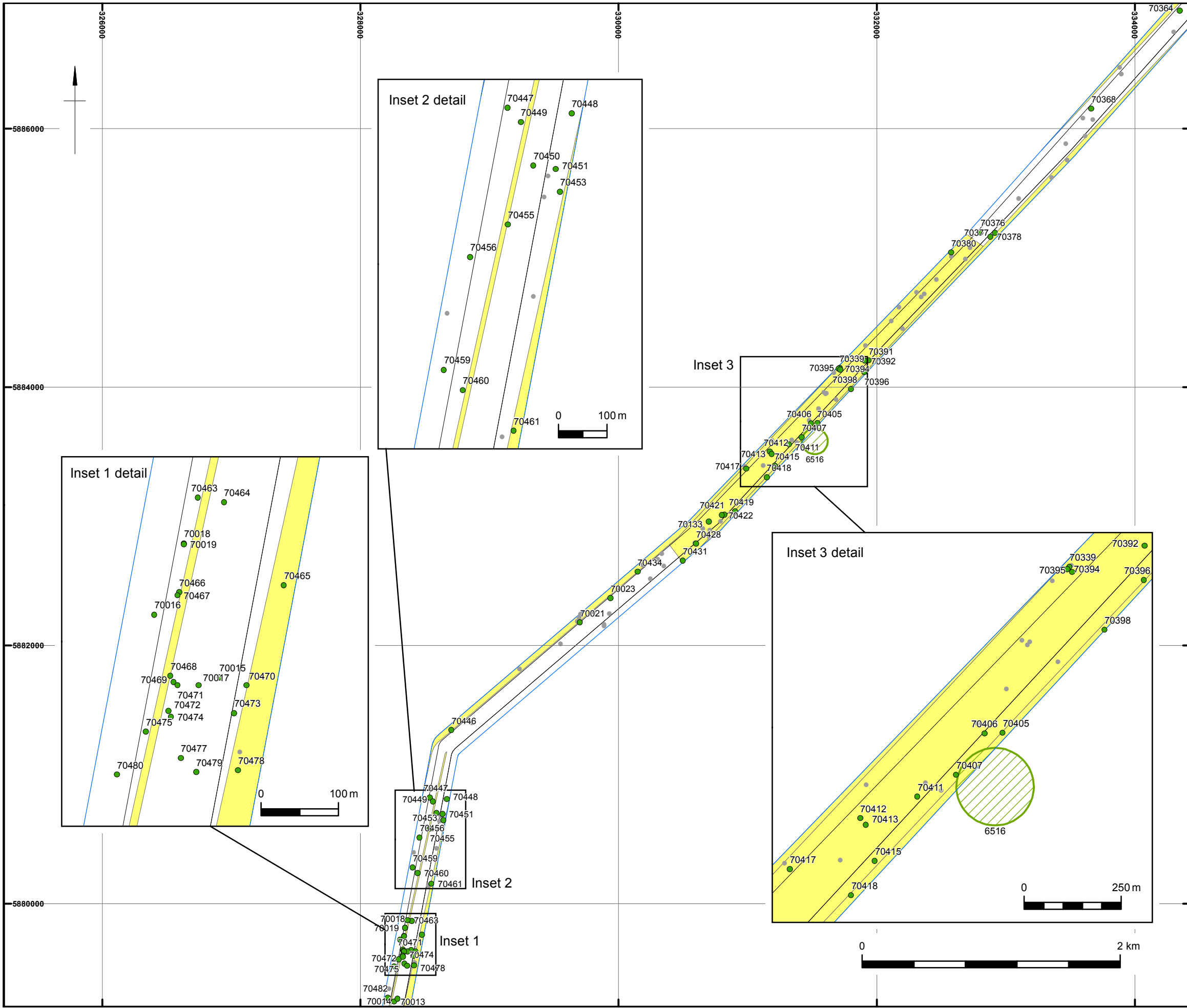


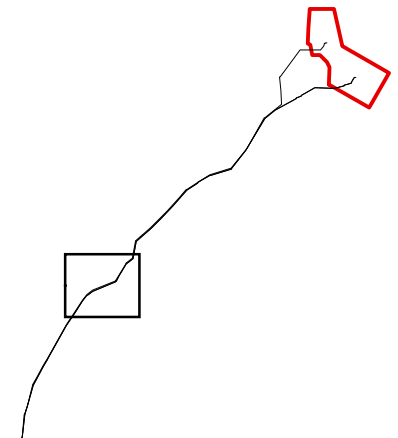
- Race Bank Offshore Wind Farm
- Export Cable Route
- Archaeological Study Area
- Existing AEZ (not reviewed)
- Areas assessed in sidescan sonar and bathymetry
- A2 – Uncertain origin of possible archaeological potential
- Small A2 magnetic anomaly <50nT



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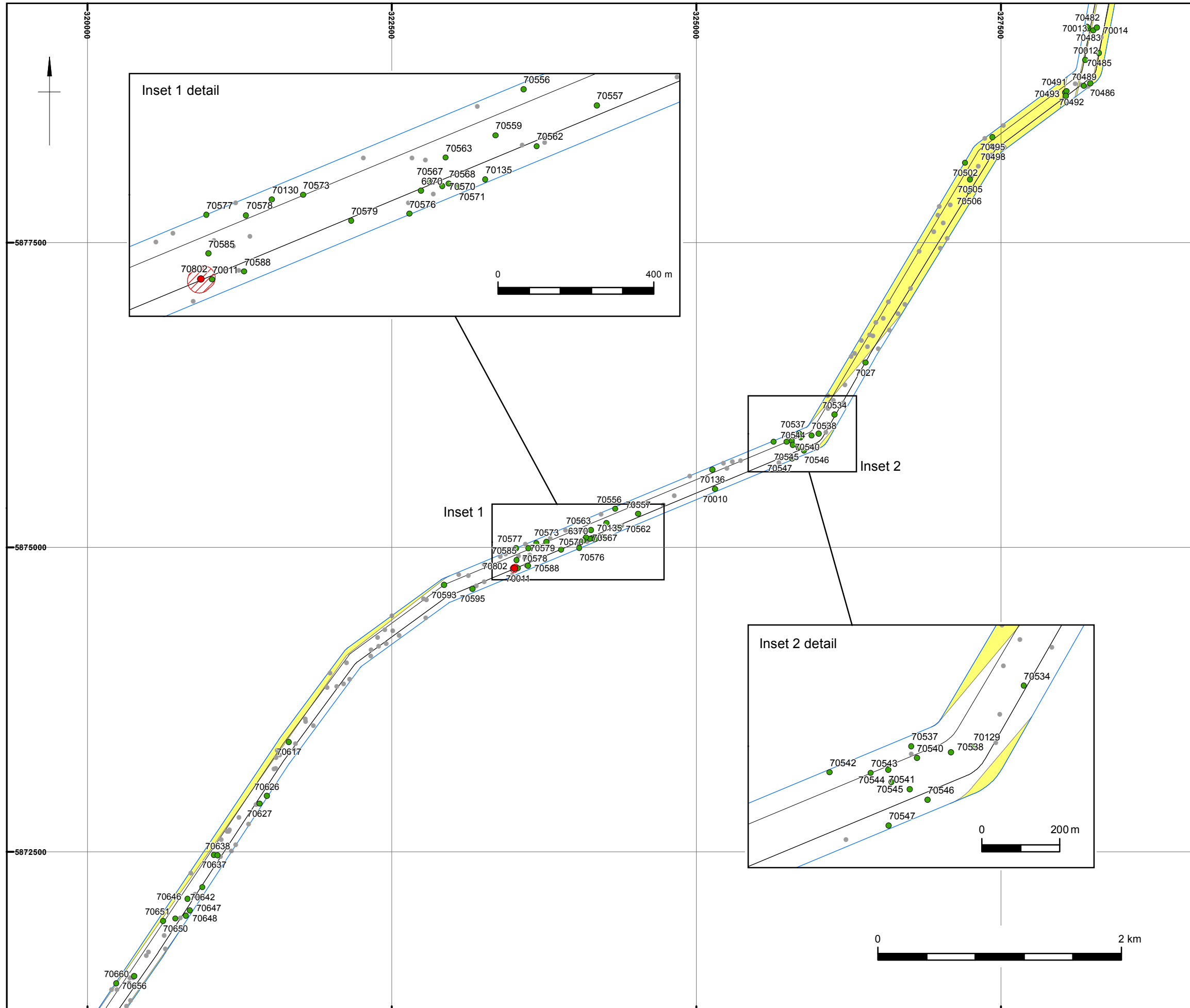


- Race Bank Offshore Wind Farm
- Export Cable Route
- Archaeological Study Area
- New AEZ
- Areas assessed in sidescan sonar and bathymetry
- A1 – Anthropogenic origin of archaeological interest
- A2 – Uncertain origin of possible archaeological potential
- Small A2 magnetic anomaly <50nT



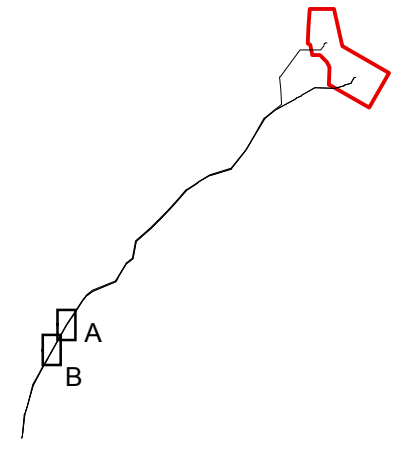
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Seabed Features of Archaeological Potential

Figure 5

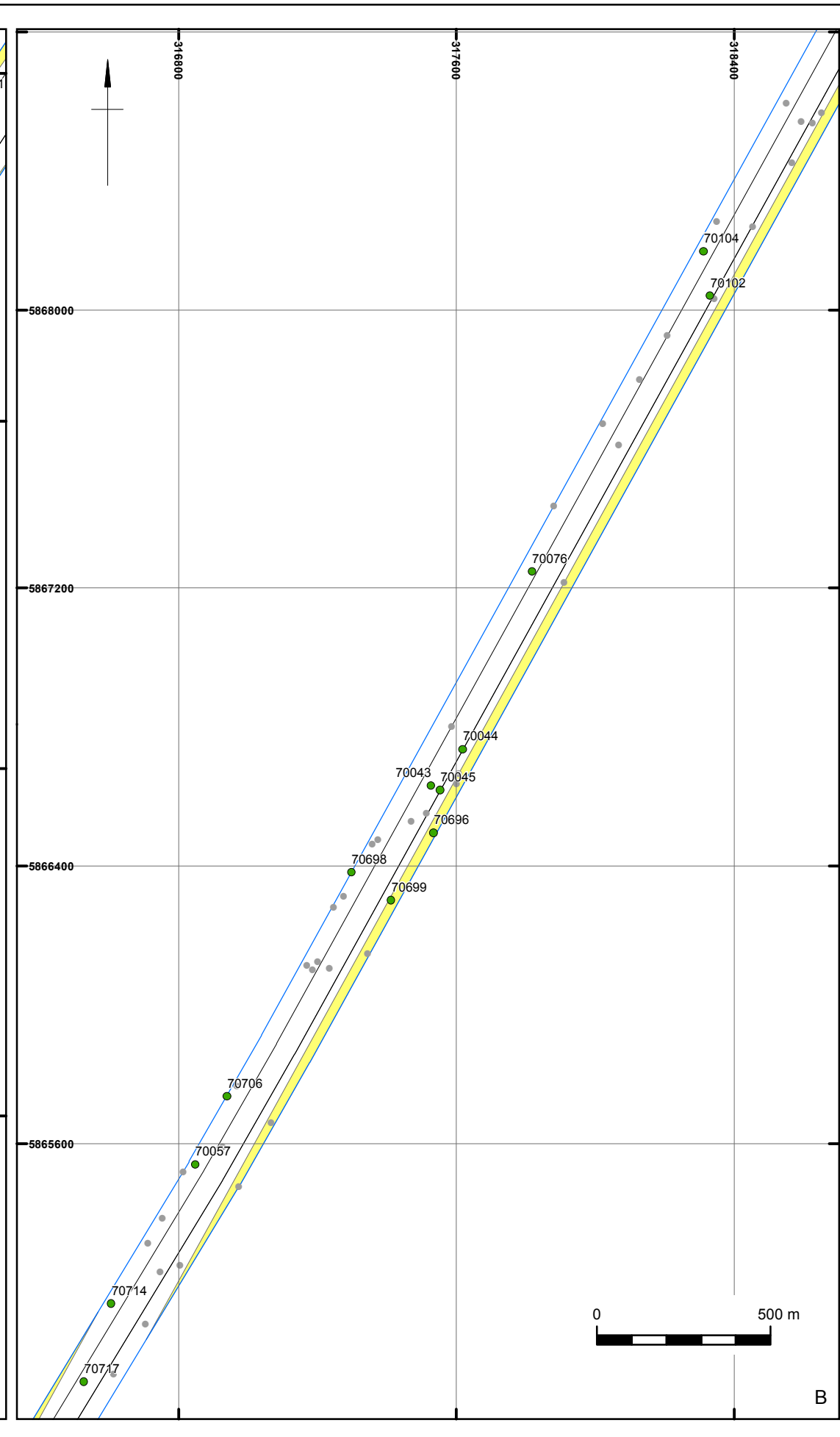
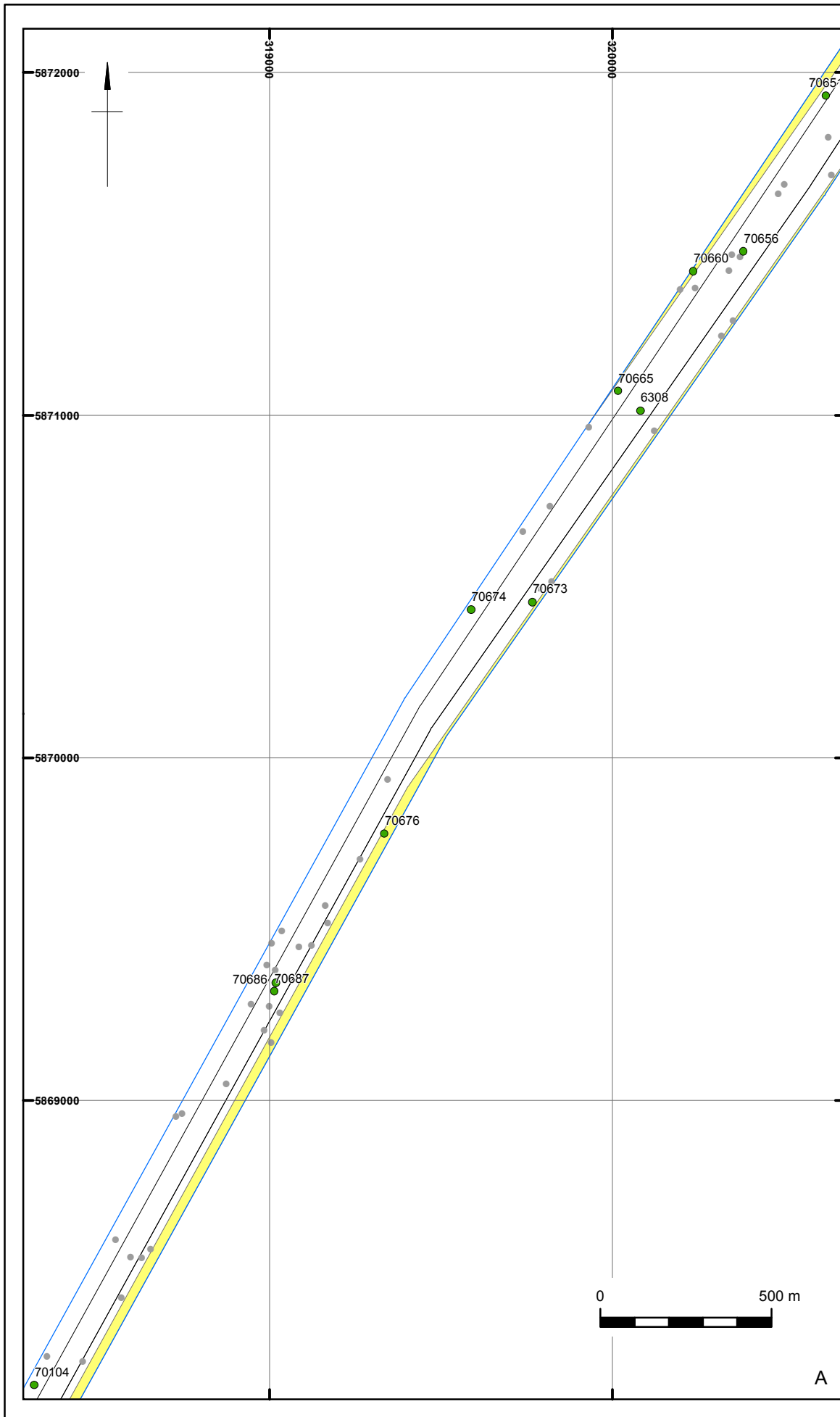


- Race Bank Offshore Wind Farm
- Export Cable Route
- Archaeological Study Area
- Areas assessed in sidescan sonar and bathymetry
- A2 – Uncertain origin of possible archaeological potential
- Small A2 magnetic anomaly <50nT



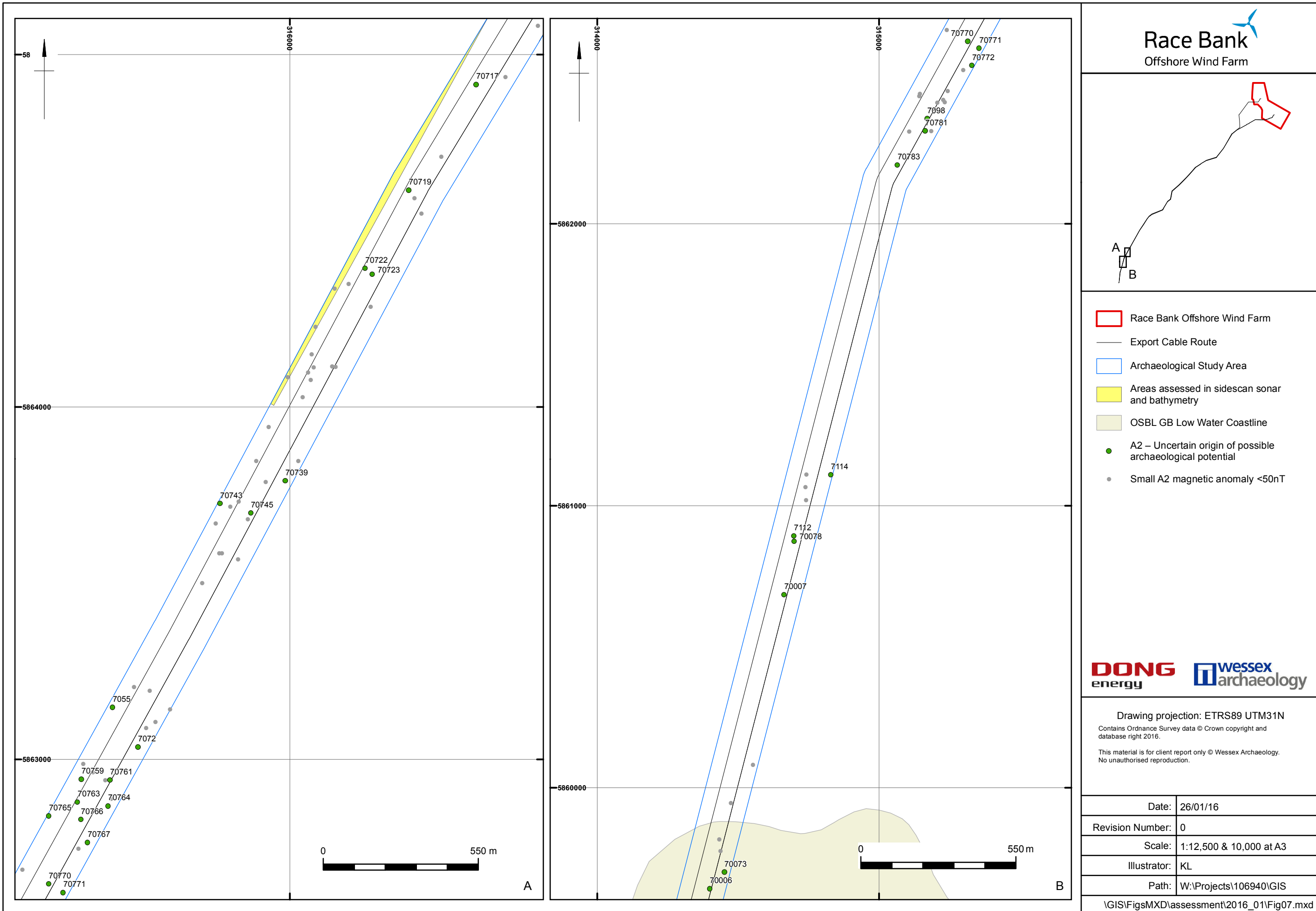
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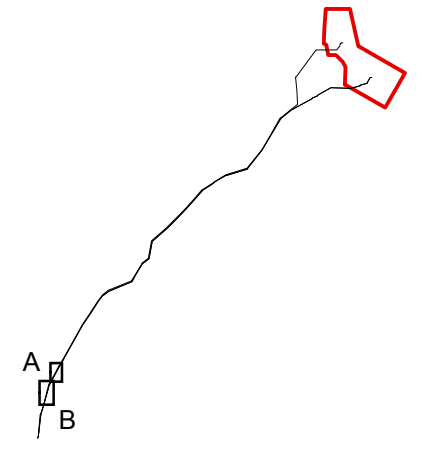


Seabed Features of Archaeological Potential

Figure 6



Race Bank
Offshore Wind Farm



- Race Bank Offshore Wind Farm
- Export Cable Route
- Archaeological Study Area
- Areas assessed in sidescan sonar and bathymetry
- OSBL GB Low Water Coastline
- A2 – Uncertain origin of possible archaeological potential
- Small A2 magnetic anomaly <50nT

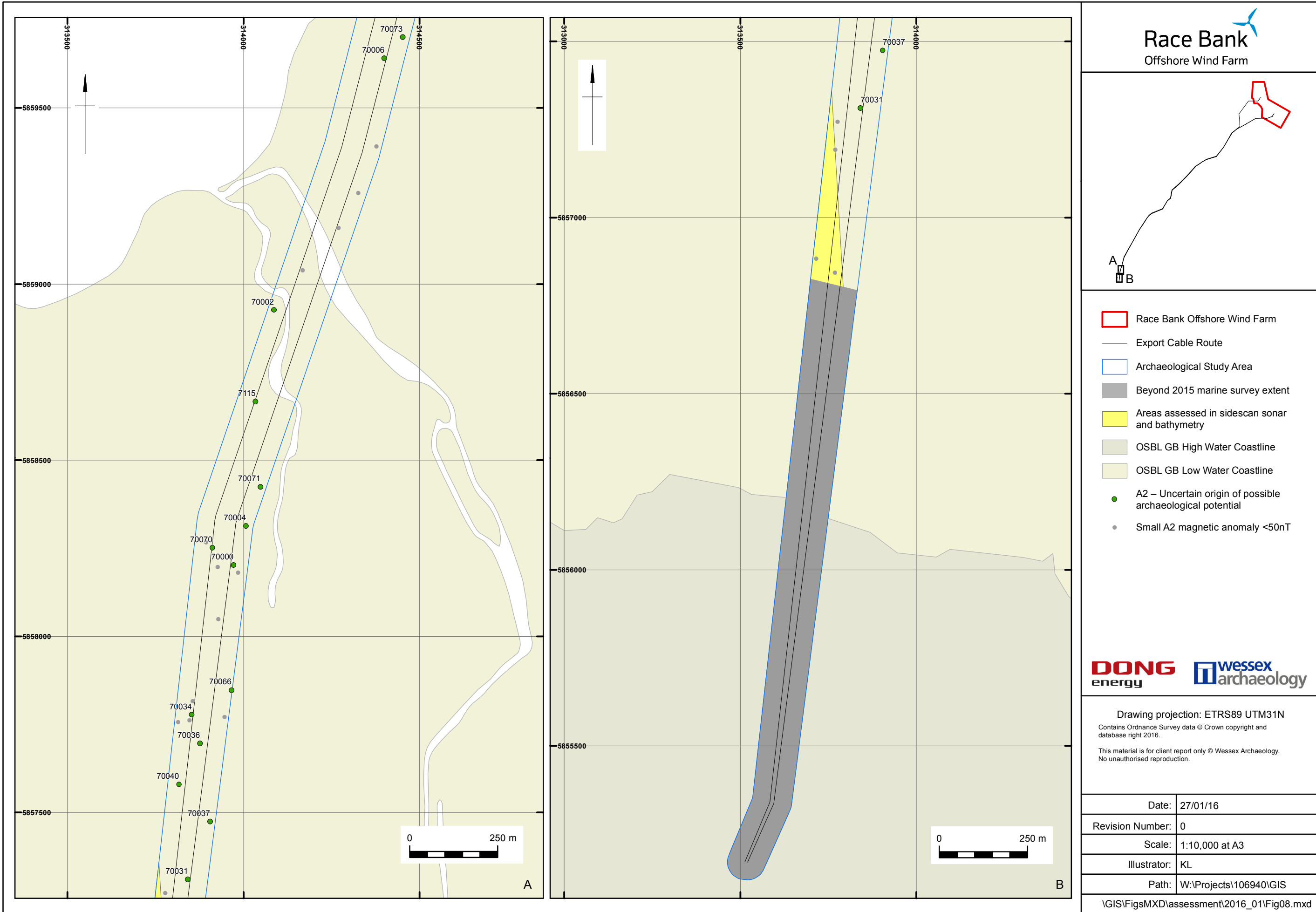


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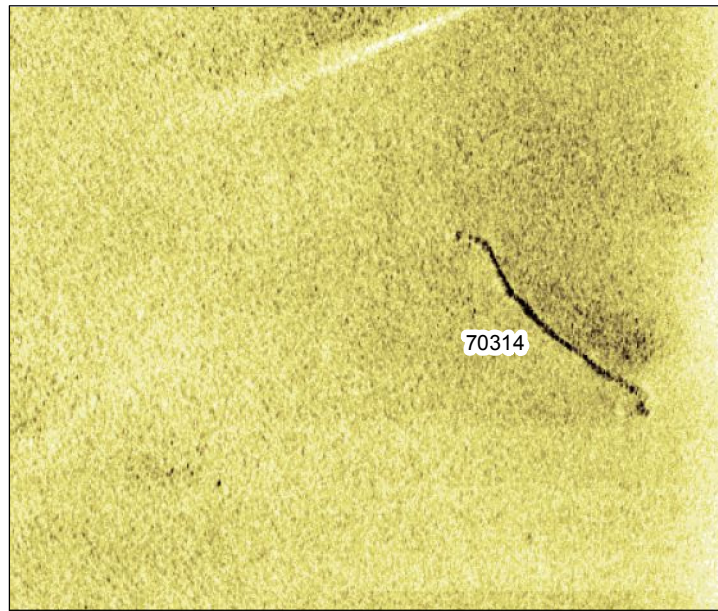
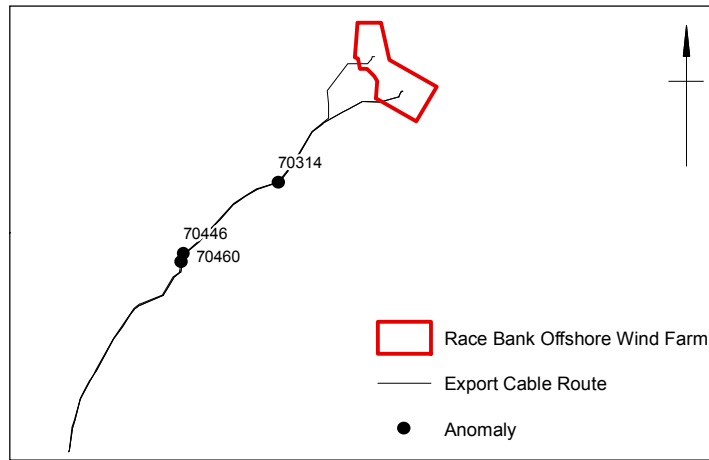
Seabed Features of Archaeological Potential

Figure 7

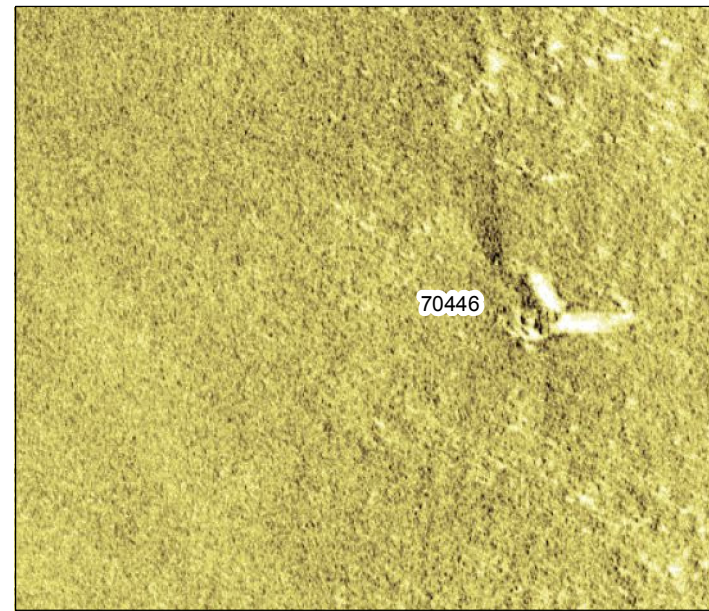


Seabed Features of Archaeological Potential

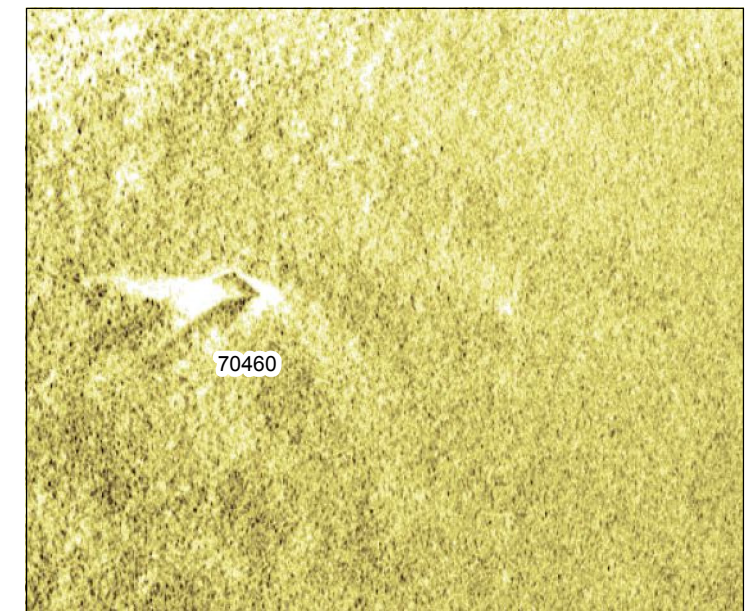
Figure 8



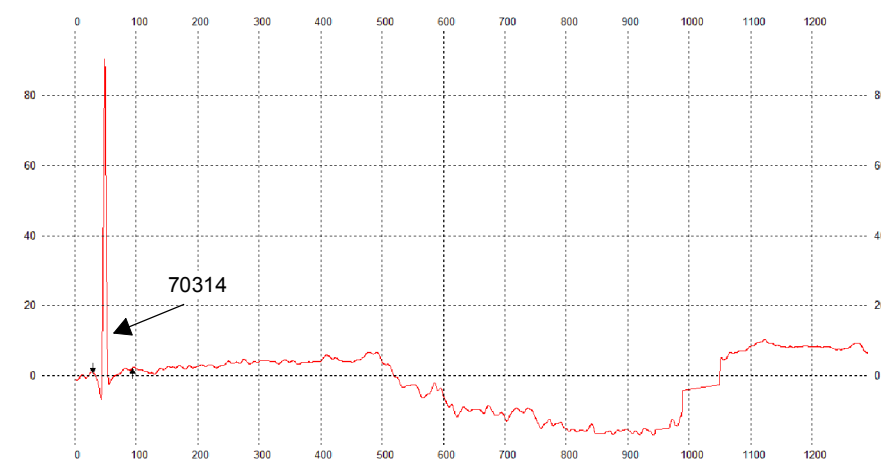
Sidescan sonar image of ferrous debris **70314**, 13.2 x 2.1 x 0.3m



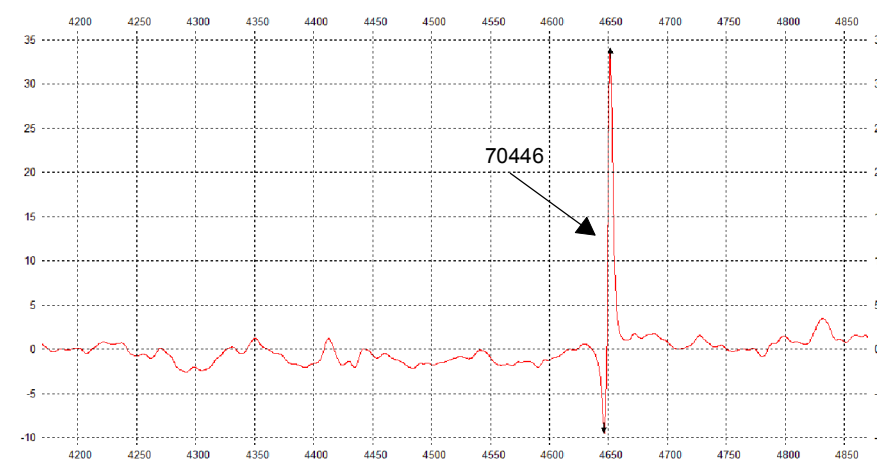
Sidescan sonar image of ferrous debris **70446**, 5.5 x 2 x 0.4m



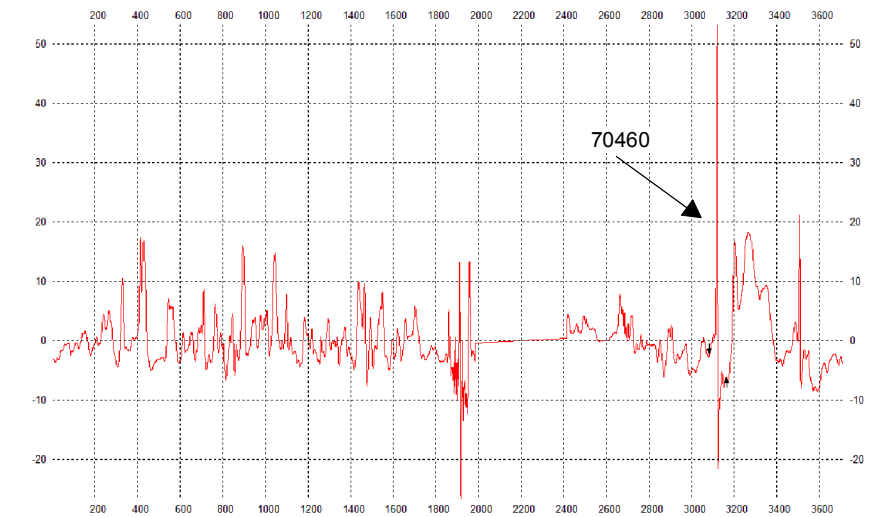
Sidescan sonar image of ferrous debris **70460**, 4.1 x 0.9 x 0.4m



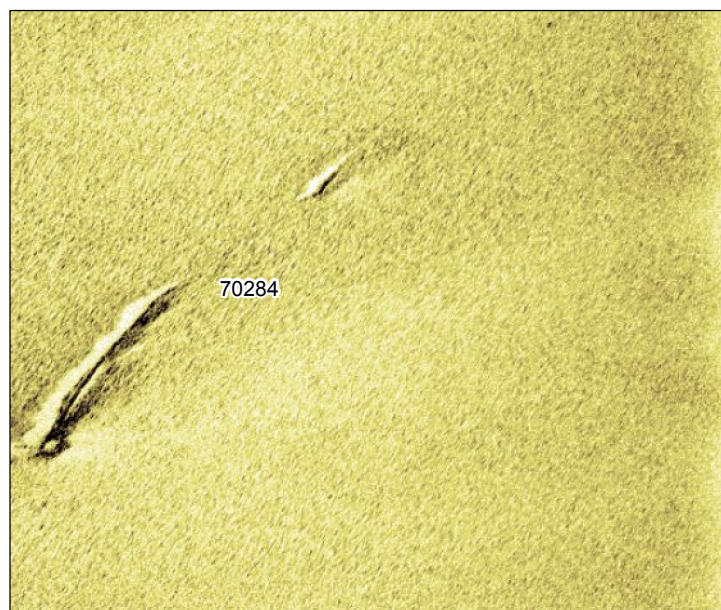
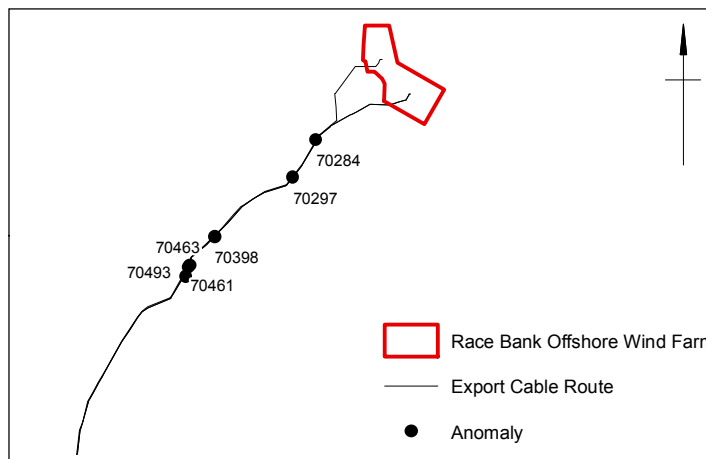
Magnetic profile of ferrous debris field **70314** measuring 113nT



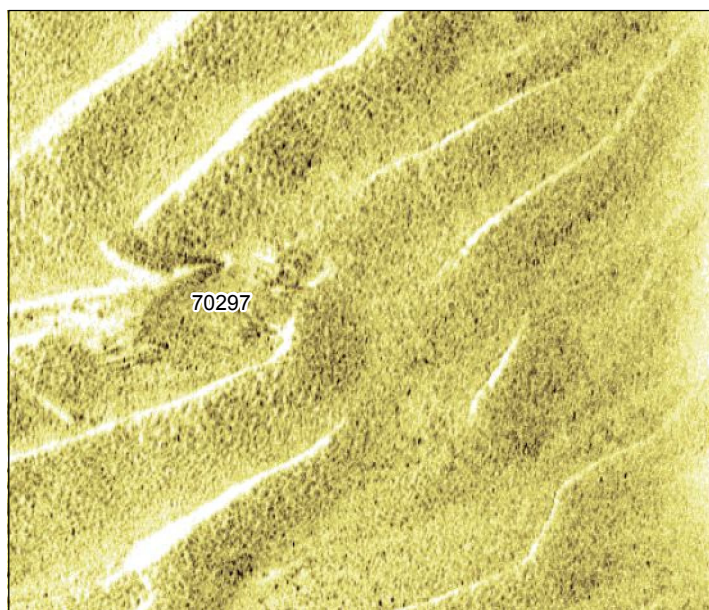
Magnetic profile of ferrous debris **70446** measuring 43nT



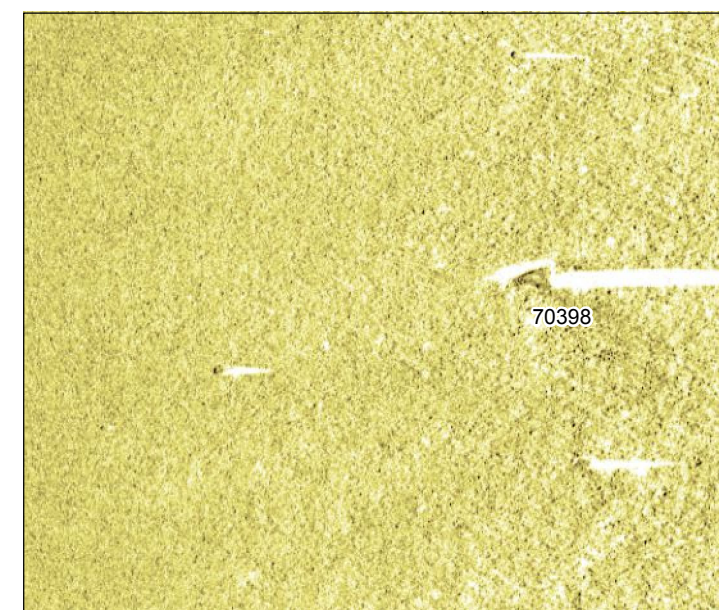
Magnetic profile of ferrous debris **70460** measuring 75nT



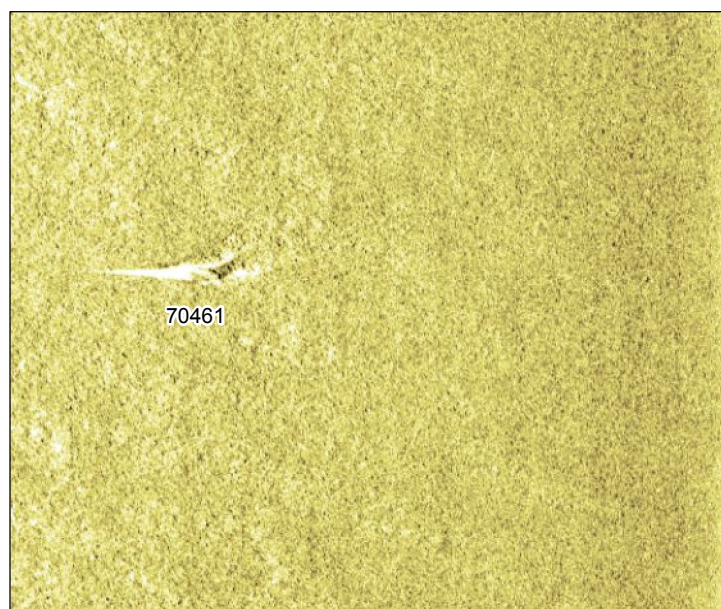
Sidescan sonar image of debris **70284**, 12 x 2.6 x 0.6m



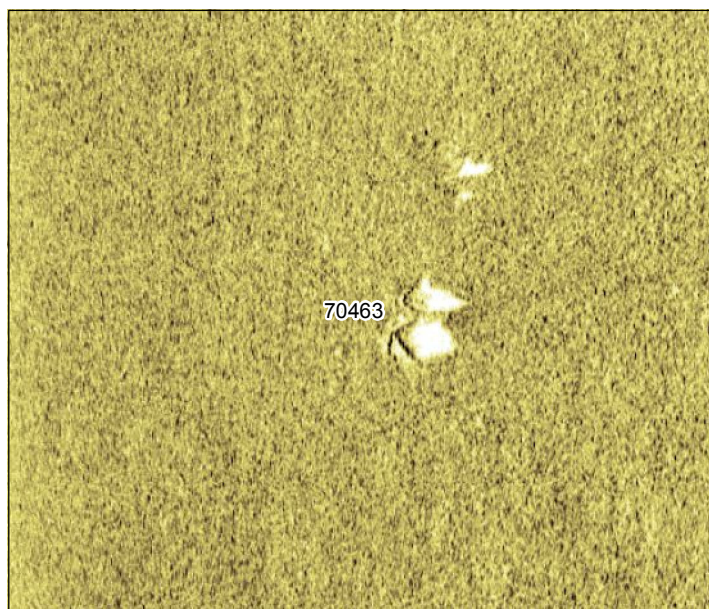
Sidescan sonar image of seafloor disturbance **70297**, 7.6 x 3.4 x 0.2m



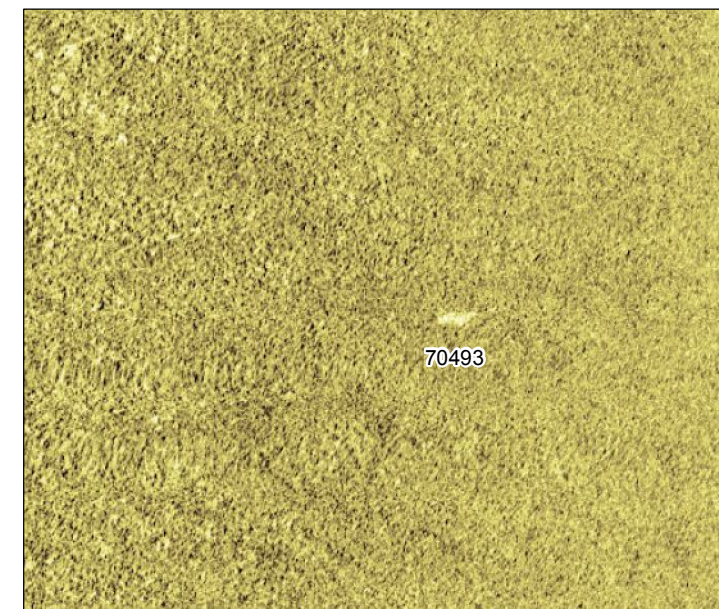
Sidescan sonar image of dark reflector **70398**, 3.3 x 1.6 x 0.7m



Sidescan sonar image of debris **70461**, 4.2 x 2.2 x 0.3m



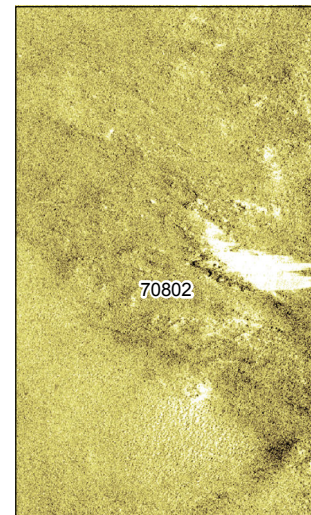
Sidescan sonar image of debris **70463**, 3.9 x 1 x 0.4m



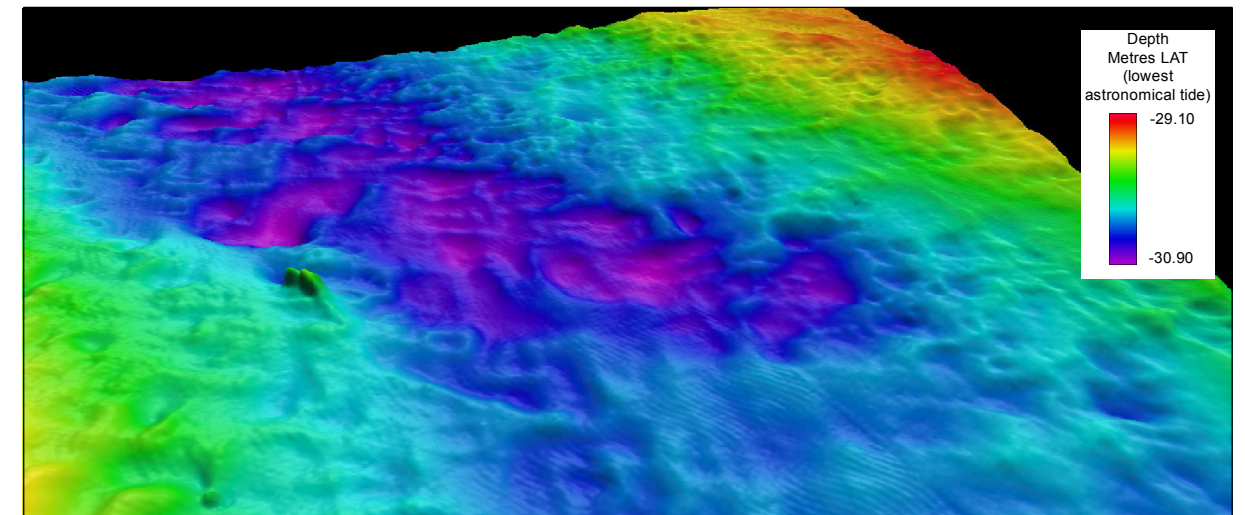
Sidescan sonar image of bright reflector **70493**, 1.2 x 1.0m

WA ID 70802 – Unknown

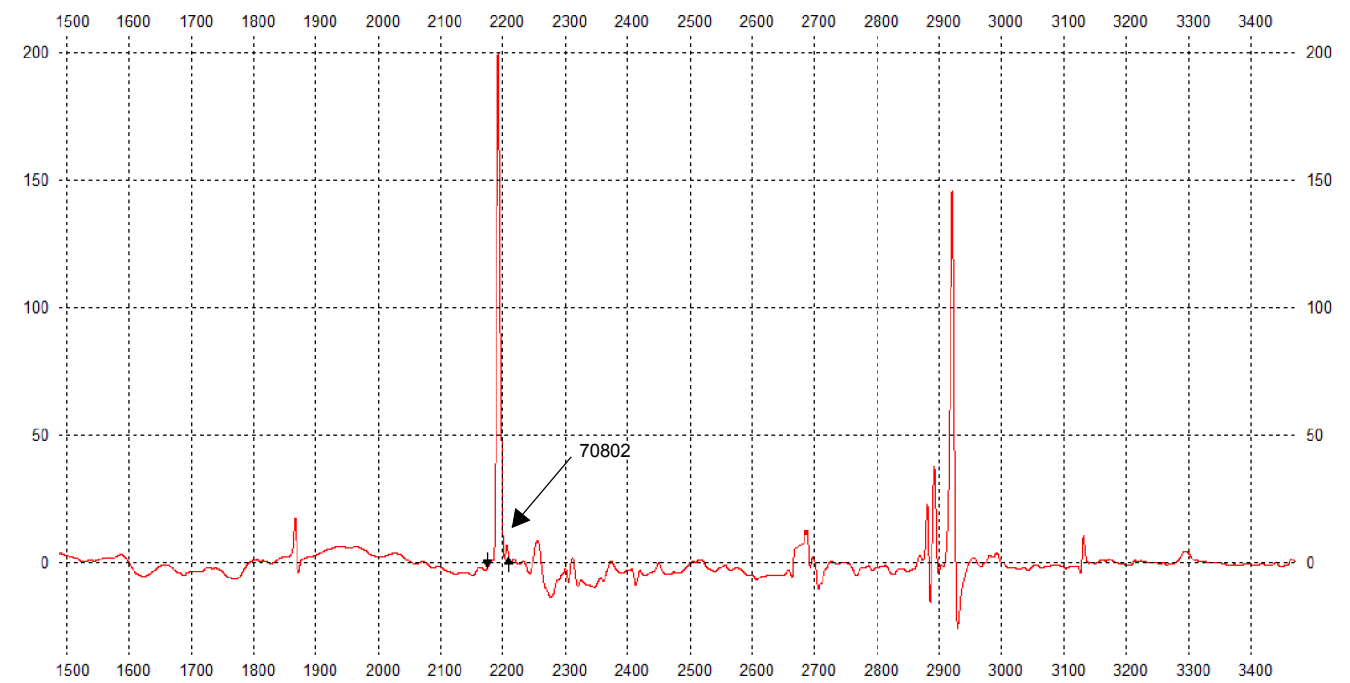
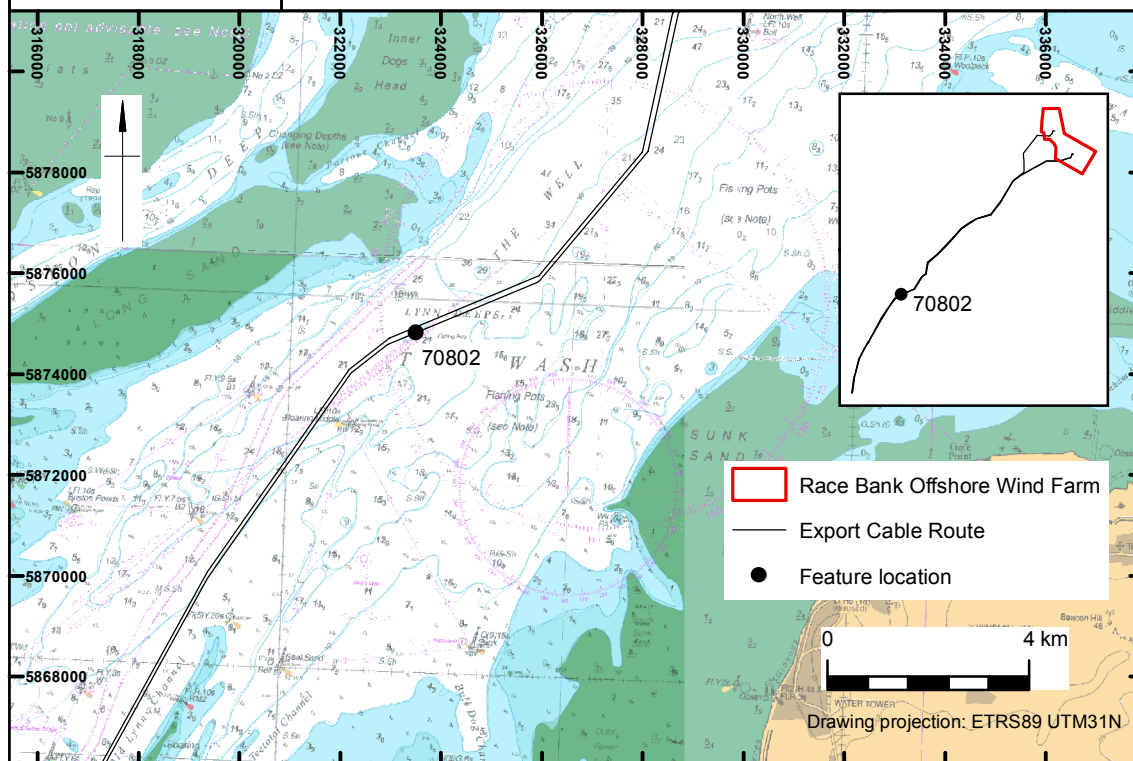
Location		323507mE, 5874826mN
Area		Offshore export cable route – eastern cable, near KP23
Geophysical Survey Dimensions and Notes		A possible wreck identified in all 2015 geophysical datasets and recorded as having dimensions of 15m x 2.8m x 1.1m and a large magnetic signature of 237nT indicating the feature contains or is made up of a substantial quantity of ferrous debris. In the bathymetry imagery the feature is visible as a large linear mound orientated northeast to southwest and located on an uneven area of the seabed. The remainder of the feature has less height recorded and consists of a build-up of sediment that may contain further debris. The feature is a collection of debris or a possible wreck that appears at least partially buried.
Build	Type	Unknown
	Construction	Unknown
	Dimensions	Unknown
	Shipyard	Unknown
Loss	Cause	Unknown
Extents of Survival		<p>The sidescan sonar data shows no detailed structural remains however the mound has a number of small dark reflectors with height in a linear alignment along part of the feature. In the bathymetry data an 8m section of the feature is clearly more upstanding than the rest which might suggest some of its structure has deteriorated. It is likely that the site contains buried debris owing to the large amplitude of the magnetic anomaly.</p> <p>The MMT ROV investigation revealed a twisted chassis of possible iron bars and pipes. Further interpretation of the site is difficult because of the thick cover of marine growth which makes the recognition of distinctive features impossible.</p> <p>The ROV excavation of one of the three metal debris features identified revealed an object with an apparent flange, possibly made of cast iron. It is unclear if the remains are related to a vessel or if they are non-archaeological debris.</p>



Sidescan sonar image of 70802, 15m x 2.8m x 1.1m



Multibeam bathymetry image of 70802 looking east (x6 vertical exaggeration)



Magnetic profile of 70802 measuring 237nT

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Wessex Archaeology Ltd registered office Portway House, Old Sarum Park, Salisbury, Wiltshire SP4 6EB
Tel: 01722 326867 Fax: 01722 337562 info@wessexarch.co.uk www.wessexarch.co.uk



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