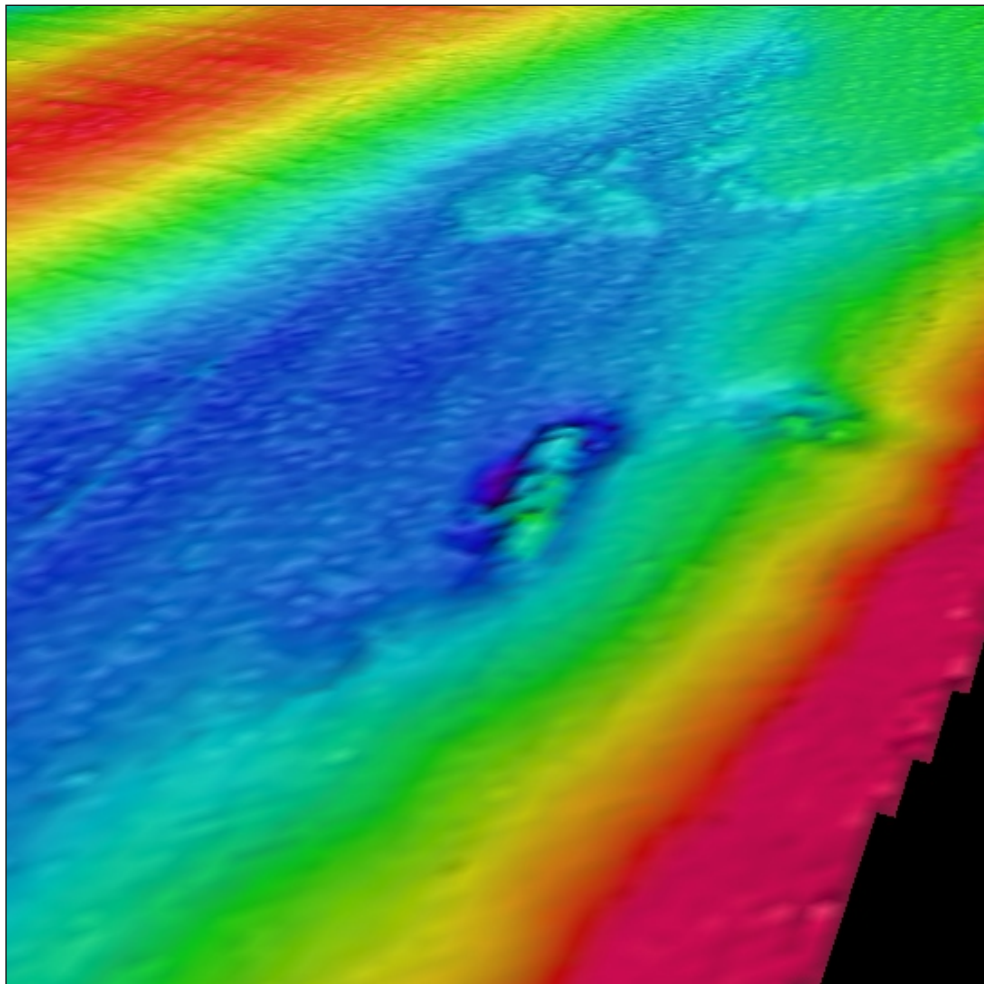




making sense of heritage

Gallopier Offshore Wind Farm

Archaeological Assessment of 2015/2016 Geophysical Data
Export Cable Route



Ref: 106222.01
March 2018



Gallopier Offshore Wind Farm

Archaeological Assessment of 2015/2016 Geophysical Data Export Cable Route

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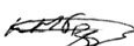

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Galloper Offshore Wind Farm

Archaeological Assessment of 2015/2016 Geophysical Data Export Cable Route

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Gallopier Offshore Wind Farm

Archaeological Assessment of 2015/2016 Geophysical Data Export Cable Route

Summary

Wessex Archaeology (WA) was contracted by Innogy UK Ltd. to undertake an archaeological assessment of 2015 and 2016 geophysical data acquired from the proposed Export Cable Route (ECR) corridor for the Gallopier Offshore Wind Farm site. This was undertaken as part of ongoing assessments in advance of the proposed development, and incorporates previous interpretations undertaken by WA in 2010 and 2015. This report is an amended version after interpretation of the nearshore and final infill data acquisition.

The ECR corridor represents an average 250 m wide area of geophysical survey coverage centred along the proposed ECR and this assessment focussed on the interpretation of seabed and near seabed features; sidescan sonar, multibeam echosounder and UXO grade magnetometer data were assessed.

A total of 603 anomalies have been identified within or impacting on the proposed ECR corridor; fourteen of which have been assigned an A1 discrimination (**7232**, **7292**, **7346**, **70203**, **70297**, **70351**, **70373**, **70539**, **71278**, **71299**, **71305**, **71337**, **71444** and **71485**). Archaeological Exclusion Zones (AEZ) are recommended for nine of the fourteen A1 anomalies within or impacting on the ECR. A further five anomalies classified as A1 are not subject to AEZs (**70373**, **71278**, **71305**, **71444** and **71485**). These are large (>1000 nT) magnetic only anomalies but their extent is unknown. It is recommended that the scheme design is microsited to avoid these anomalies.

For the wreck site of anomaly **7346**, situated within the ECR corridor, the recent higher resolution dataset indicates that the wreck site is well-constrained and although there is a possibility of buried debris associated with the wreck, it is considered that this would be localised. As such, a revised AEZ of 30 m around the known wreck extents is recommended.

Three A1 anomalies are situated outside the proposed ECR corridor (**7232**, **7292** and **70297**). The two wreck site anomalies **7232** and **7292** should retain the existing recommended 50 m AEZs around the known wreck extents. The debris anomaly **70297** should retain the existing recommended 20 m AEZ around the recorded location. Where these AEZs encroach on the proposed ECR; avoidance is required.

For anomaly **71299**, classified as an individual piece of debris, an AEZ of 20 m around the location of the feature is recommended. Avoidance is recommended.

Subsequent to the initial geophysical assessment, anomaly **70539** was identified by Remotely Operated Vehicle (ROV) as wreck related debris with a large surrounding magnetic disturbance, situated within the ECR corridor. An AEZ was put in place around the extents of the debris identified by the ROV whilst further investigations were undertaken. Further details regarding the mitigation for this site can be found in the *Heritage Method Statement: Addendum (Carica Milica)* report (WA 2016a).

It is recommended that anomalies **70203** (debris field in an area of high magnetic response), **70351** (a seafloor disturbance in an area of high magnetic response) and **71337** (a seafloor disturbance) have a temporary AEZ put in place around the extents of each feature.

There are three records of A3 archaeological discrimination (**7237**, **7258** and **7337**).

Records **7258** and **7337** are located within the proposed ECR corridor. However, these wreck records were based on contemporary accounts for the recorded loss of the vessels and essentially represent recorded losses rather than charted wreck sites. No documentation to date confirms that the remains of either vessel have ever been observed on the seafloor at these locations during past hydrographic surveys and no geophysical anomalies were identified in the most recent dataset. Indeed, it has been suggested previously by WA that the record for **7337** may correspond with the wreck anomaly **7346**, some 545 m to the south-west. On AEZ is recommended around these A3 locations, though an avoidance strategy is advised. If any archaeological material is subsequently recovered then it should be reported through Offshore Renewables Protocol for Archaeological Discoveries (ORPAD) and further mitigation may be required.

Record **7237** relates to an unobserved wreck position; situated outside the proposed ECR corridor and not covered by the most recent dataset. The existing 100 m AEZ around this position should be retained, though where it encroaches on the proposed ECR corridor, WA advises an avoidance strategy.

A further 586 anomalies of A2 archaeological discrimination have been identified within the ECR corridor. No new AEZs are recommended at this time although avoidance of these features is advised.

These A2 anomalies have been further discriminated based on size in length and size of magnetic amplitude. Anomalies measuring less than 3 m in length and less than 50 nT in amplitude have been given a A2 rating of lower potential. There are 348 anomalies of lower potential. 238 anomalies retain the normal A2 rating.

If any archaeological material is recovered at these or any other locations then it should be reported through ORPAD and further mitigation may be required.

Galloper Offshore Wind Farm

Archaeological Assessment of 2015/2016 Geophysical Data Export Cable Route

Acknowledgements

This project was commissioned by Innogy UK Ltd, and Wessex Archaeology would like to acknowledge the assistance of Colin McAllister during the course of this project. The data were acquired and provided by Gardline Geosurvey and Titan Environmental Surveys, and their assistances are acknowledged in this respect.

Laura Andrews, David Howell and Megan Metcalfe carried out the geophysical assessment, and the report was written by Laura Andrews. Illustrations were prepared by Kitty Foster. Geophysical quality control was provided by Louise Tizzard, and the project was managed for Wessex Archaeology by Euan McNeill and Louise Tizzard.

Galloper Offshore Wind Farm

Archaeological Assessment of 2015/2016 Geophysical Data Export Cable Route

1 INTRODUCTION

1.1 Project background

- 1.1.1 Wessex Archaeology (WA) was commissioned by Innogy UK Ltd. to undertake an archaeological assessment of UXO geophysical data acquired along the proposed Export Cable Route (ECR) for the Galloper Offshore Wind Farm (OWF) site. This was to be undertaken as part of ongoing site assessments in advance of the proposed development scheme.
- 1.1.2 The proposed Galloper OWF site is situated in the Outer Thames Estuary, off the Suffolk and Essex coasts. The ECR extends from the northwest corner of the Galloper OWF site for approximately 48 km to landfall at Leiston, Sizewell, Suffolk (**Figure 1**). The ECR site boundary comprises an average 250 m wide corridor of geophysical survey coverage centred along the proposed route, hereafter 'the ECR corridor'. The proposed export cables may be located anywhere within the ECR corridor, however, the routes are most likely to be confined to an area defined by a 50 m buffer either side of the Route Position List (RPL) (Ref (0)002156330-02-NRL 3129 - FB000047-VBNK-GEN-DWG-2002), where this buffer coincides with survey coverage. Subsequently, the cable route was amended and provided on 17/06/16. These latest routes are illustrated on **Figures 1 and 2**
- 1.1.3 The UXO geophysical survey data were acquired by Gardline Geosurvey Ltd. (Gardline) and Titan Environmental Surveys Ltd. (Titan) during November and December 2015, and 2016.
- 1.1.4 This report also includes assessment of the nearshore survey and the three phases of infill survey undertaken in 2016. The data acquired included multibeam echosounder, sidescan sonar (SSS), and marine magnetometer data.
- 1.1.5 In addition to the geophysical survey data, the assessment included the results of previous interpretations of geophysical data undertaken by WA from the Galloper OWF site and ECR site construction limits in 2010 (WA 2010) and 2015 (WA 2015a).
- 1.1.6 This report includes an assessment of the UXO geophysical survey results, together with the results of previous assessments associated within the proposed Galloper OWF ECR corridor and any historic data.

1.2 Aims and objectives

- 1.2.1 The aim of the assessment was to undertake an archaeological interpretation of UXO geophysical survey data from the Galloper OWF ECR corridor. The objectives were as follows:
- *to assess the geophysical survey data acquired by Gardline and Titan in order to identify any material of archaeological and cultural heritage significance present within the ECR corridor;*

- *to compare the geophysical interpretation with desk based assessments, historical data, known archaeological sites and previous investigations in the vicinity of the ECR corridor;*
- *to recommend mitigation measures for any archaeological or cultural heritage assets identified within the ECR corridor;*
- *to report on the methodologies, results and propose archaeological mitigation in accordance with the Updated Written Scheme of Investigation (WA 2016b)*

1.3 Archaeological baseline

1.3.1 The archaeological baseline for the Galloper Offshore Wind Farm has previously been presented in the Desk-Based Archaeological Assessment (WA 2010) and has not been repeated here.

2 METHODOLOGY

2.1 Data sources

2.1.1 A number of data sources and additional information were utilised during this assessment. These included:

- *UXO Geophysical survey data acquired by Gardline and Titan in 2015 and 2016;*
- *the results of previous geophysical interpretation undertaken by WA in 2010 (WA 2010) and 2015 (WA 2015a);*
- *United Kingdom Hydrographic Office (UKHO) wreck and obstruction database for records of known shipwrecks and navigational hazards from historic and modern charts;*
- *relevant Admiralty Charts of the approaches to the Thames Estuary.*

2.1.2 The focus of the assessment lies on the average 250 m corridor of geophysical survey coverage centred on the proposed ECR; only results lying within these limits of the route have been presented in this report unless otherwise mentioned (**Figure 1**).

2.1.3 The geophysical data acquired in 2015 and 2016 used for this report were assessed for quality and their suitability for archaeological purposes, and rated using the following criteria:

Table 1 Criteria for assigning data quality rating

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.

2.1.4 The geophysical data were acquired in six sections: a nearshore cable route survey, an inshore cable route survey, an offshore cable route survey, an inshore infill survey from February 2016, an offshore infill survey from April 2016 and a final marine magnetometer infill survey from August 2016. As such, the data from each survey were assessed for quality independently.

- 2.1.5 The nearshore cable route UXO SSS data were rated as “Average” from an archaeological perspective using the above criteria. The data were acquired at a range of 25 m and as such small objects and details of larger objects would be easier to detect. Some of the data are slightly weather affected. The data were provided with offsets included and the positioning quality was generally of high standard.
- 2.1.6 The inshore cable route SSS data were acquired at a range of 25 m and 50 m. Data acquired with a 25 m range have been rated as “Good” using the above criteria and as such very small objects and details of larger objects would be easier to detect. The overall quality and positioning of the data were found to be of a high standard and suitable for archaeological assessment.
- 2.1.7 The data acquired at 50 m range were rated as “Good” using the above criteria. At this range very small objects and details of larger objects are likely to be observed. The overall quality and positioning of the data were found to be of a high standard and suitable for archaeological assessment.
- 2.1.8 The offshore cable route UXO SSS data were rated as “Average” from an archaeological perspective using the above criteria. The data were acquired with 20 m range and as such small objects and details of larger objects would be easier to detect. Some of the data are slightly weather affected. The data were provided with offsets included, and the positioning quality was generally of high standard.
- 2.1.9 The inshore infill UXO SSS data were rated as “Good” from an archaeological perspective using the above criteria. The data were acquired with 20 m range and as such small objects and details of larger objects would be easier to detect. The overall quality and positioning of the data were found to be of a high standard and suitable for archaeological assessment.
- 2.1.10 The offshore infill UXO SSS data were rated as “Variable” from an archaeological perspective using the above criteria. The data were acquired with 20 to 30 m range, and as such small objects and details of larger objects would be easier to detect. Amounts of the data are weather affected making interpretation of smaller objects and details of larger objects difficult. The data were provided with offsets included, and the positioning quality was generally of high standard.
- 2.1.11 The nearshore UXO marine magnetometer data were rated as “Average” from an archaeological perspective using the above criteria. An amount of data spiking was observed in the files which were removed during processing. The dataset was affected by noise from underlying geology but overall the data quality and positioning was generally found to be of a high standard and suitable for archaeological assessment.
- 2.1.12 The inshore UXO marine magnetometer data were rated as “Variable” from an archaeological perspective using the above criteria. There is an amount of background variation visible throughout the ECR corridor, with the very nearshore area data particularly affected by noise from underlying geology. An amount of data spiking was observed in the files, which were removed during processing. Data quality and positioning have been affected to some degree, but the data are suitable for archaeological assessment.
- 2.1.13 The offshore UXO marine magnetometer data were rated as “Good” from an archaeological perspective using the above criteria. There is an amount of background variation visible throughout the ECR corridor but overall the data quality and positioning was found to be of a high standard and suitable for archaeological assessment. Some data spiking was observed in the files which were removed during processing.

- 2.1.14 The inshore infill UXO marine magnetometer data were rated as “Good” from an archaeological perspective using the above criteria. No spiking was observed in the files. Data quality and positioning was found to be of a high standard and suitable for archaeological assessment.
- 2.1.15 The offshore infill UXO marine magnetometer data were rated as “Average” from an archaeological perspective using the above criteria. An amount of data spiking was observed in the files, which were removed during processing. Some background variation was visible throughout the ECR corridor but overall the data quality and positioning was generally found to be of a high standard and suitable for archaeological assessment.
- 2.1.16 The final infill UXO marine magnetometer data were rated as “Average” from an archaeological perspective using the above criteria. An amount of data spiking was observed in the files, which were removed during processing. Some background variation was visible throughout the ECR corridor but overall the data quality and positioning was generally found to be of a high standard and suitable for archaeological assessment.
- 2.1.17 The multibeam echosounder data for all surveys were rated as “Good” using the above criteria, with very little weather effects observed and features easily visible.

2.2 Technical specifications

- 2.2.1 The UXO geophysical data were acquired on board the vessels MV *Confidante* and MV *Vigilant* between November and December 2015. The infill surveys undertaken in 2016 were undertaken on board MV *Vigilant*.
- 2.2.2 The UXO SSS data collected were acquired using an Edgetech 4200 towfish operated at 300 kHz/600 kHz and at 25 m and 50 m range per channel for the inshore ECR corridor, and at 20 m range per channel for the offshore ECR corridor and infill survey. All data were digitally recorded and provided to WA as navigation corrected *.xtf* files.
- 2.2.3 The magnetometer data were acquired using towed Geometrics G-882 caesium vapour magnetometers. The data were digitally recorded and provided to WA as *.xyz* files.
- 2.2.4 The MV *Vigilant* used an array of six G-882 magnetometers at 3.5 m lateral spacing. The MV *Confidante* used an array of four G-882 magnetometers at 3.5 m lateral spacing.
- 2.2.5 The MV *Vigilant* acquired UXO multibeam echosounder data using a hull mounted Kongsberg EM 2040 (0.5 x 1) dual head multi beam. The data were digitally recorded and provided to WA as gridded *.xyz* files.
- 2.2.6 The MV *Confidante* acquired UXO multibeam echosounder data using a hull mounted Kongsberg EM 3002D (1.5 x 1.5) dual head multi beam. The data were digitally recorded and provided to WA as gridded *.xyz* files.
- 2.2.7 Inshore data were acquired by Titan onboard vessel *Titan Explorer*. The SSS data were acquired using an Edgetech 4200 towfish operated at 300 kHz/600 kHz towfish. All data were digitally recorded and provided to WA as *.xtf* files. The magnetometer data were acquired using towed Geometrics G-882 caesium vapour magnetometers. The data were digitally recorded and provided to WA as *.xyz* files. Multibeam echosounder data were acquired using a GeoSwath Plus with TSS DMS05 MRU.
- 2.2.8 All positions were recorded and expressed as WGS 1984 UTM Zone 31N.

2.3 Processing

- 2.3.1 The UXO sidescan sonar data 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 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 were provided with corrected navigation in them by the survey company but they were still smoothed in the mosaic. This process allows the position of anomalies to be checked between different survey lines and for the positional 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 were processed by WA using Geometrics MagPick software in order to identify any discreet magnetic contacts which could represent buried metallic debris or structures such as wrecks. This software enables both the visualisation of individual lines of data and gridding of data to produce a magnetic anomaly map.
- 2.3.5 The data were first despiked and then smoothed, to try and eliminate any data spikes. 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 variation in magnetic field strength and changes in geology). The processed data were then gridded to produce a map of magnetic anomalies, and individual anomalies tagged and images taken in a similar process to that undertaken for the SSS data.
- 2.3.6 The multibeam echosounder data were analysed to identify any unusual seabed structures that could be shipwrecks or other anthropogenic debris. The data were gridded at 1 m and analysed using Fledermaus software, which enables 3-D visualisation of the acquired data and geo-picking of seabed anomalies.
- 2.3.7 The table of anomalies previously identified by WA were loaded into a GIS and then grouped/discriminated alongside any newly identified features as appropriate, as outlined in **Section 2.4**.

2.4 Anomaly grouping and discrimination

- 2.4.1 The previous section describes the initial interpretation of all available geophysical datasets which were conducted independently of each other. 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 ECR corridor.
- 2.4.2 To address this fact the anomalies were grouped together along with the results of the desk-based study of known archaeological sites and the anomalies previously identified by WA (WA 2010, WA 2015a). 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 All original WA ID numbers from previous assessments were retained. Newly identified anomalies have been issued a new number starting with 71000.
- 2.4.4 Once all the 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. For anomalies located on the seabed, these flags are ascribed as follows:

Table 2 Criteria for discriminating archaeological importance of features

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

- 2.4.5 All of the features of archaeological potential that have been identified within or impacting on the ECR corridor are presented in **Appendix I** and are discussed below. Recommendations have been made for mitigation measures should the sites be impacted upon by the proposed development scheme.
- 2.4.6 Anomalies from previous assessments that were identified in the most recent dataset have been assigned a new archaeological potential rating, where applicable, using all of the information available.
- 2.4.7 Where no new anomalies were observed in the initial review of the most recent 2015 and 2016 datasets, the location of the previously tagged feature was revisited and a decision made as to whether to retain or discard the anomaly based on the latest, higher resolution data.
- 2.4.8 Where a previous anomaly has not been covered by the most recent geophysical dataset, its original WA ID, position, classification and measurements have been retained.
- 2.4.9 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.
- 2.4.10 Any sites which are located outside of the defined ECR corridor, either previously recorded in known databases (e.g. UKHO) or identified during this geophysical assessment, are deemed beyond the scope of the current project and are subsequently not included in this report.

3 RESULTS

- 3.1.1 Interpretation of the 2015 and 2016 infill UXO geophysical datasets across the ECR corridor identified a total of 982 individual anomalies by WA. In addition, a total of 140 anomalies identified from previous investigations (WA 2010, 2015), were located within the ECR corridor. These were grouped and a total of 1018 individual anomalies were identified within the ECR corridor.
- 3.1.2 In all, 44 features originally identified in previous sidescan sonar and magnetometer data were not observed in the most recent dataset. These have likely been buried by mobile sediments since the data were acquired or, in the case of magnetometer anomalies, have

been masked by larger wreck, non-archaeological or geological anomalies in the vicinity. Nine of these anomalies (all magnetic) are now thought to be natural features. Two further anomalies have been interpreted as known non-archaeological features from the most recent dataset. These 11 anomalies were removed from the gazetteer.

- 3.1.3 Of the remaining anomalies a large number (322) were interpreted during the anomaly discrimination stage to be probable natural features such as rocks and cobbles on the seabed, natural magnetic fluctuations or known non-archaeological features such as cables or pipelines. All these anomalies were removed from the gazetteer.
- 3.1.4 A further 83 anomalies were positioned outside the ECR corridor. One of these anomalies relates to debris that has current mitigation which would impact on the ECR corridor (**Appendix I**). All but this one anomaly were removed from the gazetteer and are not reported on.
- 3.1.5 One historic record of possible archaeological interest with no corresponding geophysical anomaly has been recorded within the vicinity of the ECR corridor. It has current mitigation which would impact on the current corridor and therefore has been retained in the gazetteer (**Appendix I**).
- 3.1.6 In total, 603 features of archaeological potential have been identified within or impact on the ECR corridor. These are discriminated as shown below:

Table 3 Anomalies of archaeological potential within or impacting on the Export Cable Route corridor

Archaeological Discrimination	Number of anomalies	Interpretation
A1	14	Anthropogenic origin of archaeological interest
A2	586	Uncertain origin of possible archaeological interest
A3	3	Historic record of possible archaeological interest with no corresponding geophysical anomaly
Total	603	

- 3.1.7 Furthermore, these anomalies can be classified by probable type, which can further aid in the assigning of archaeological potential and importance:

Table 4 Classification of anomalies identified within or impacting on the Export Cable Route corridor

Anomaly classification	Number of anomalies
Wreck	3
Debris field	4
Debris	56
Dark reflector	27
Bright reflector	1
Rope/chain	25
Seafloor disturbance	10
Mound	5
Magnetic	470
Unobserved wreck	2
Total	603

- 3.1.8 Selections of these anomalies are discussed below in detail. A full gazetteer of anomalies is supplied in **Appendix I** and the distribution of anomalies is illustrated in **Figure 2a** to **Figure 2j**.

- 3.1.9 A total of 14 anomalies (**7232, 7292, 7346, 70203, 70297, 70351, 70373, 70539, 71278, 71299, 71305, 71337, 71444 and 71485**) have been interpreted as A1 – Anthropogenic origin of archaeological interest.
- 3.1.10 One anomaly (**7346**) has been interpreted as a wreck in two distinct parts within the inshore extents of the ECR corridor with the central position located approximately 25 m north of the nearest proposed ECR (**Figure 2a; Sheet 1**). The wreck is situated at a general depth of 2.9 m LAT within in a bathymetric low between the beach and a bank parallel to the shore line. The wreck has been observed in the sidescan sonar and multibeam echosounder as two distinct mounds with the larger north-east section as an elliptical mound with some structure visible measuring 22.6 x 6.1 x 0.9 m. Some further structure and debris, including a possible mast measuring 4.7 x 0.2 x 0.2 m, has been observed along the north-east edge of this section. This section appears to be broken-up at the south-west extents.
- 3.1.11 A smaller sub-rounded section has been located approximately 10 m to the south-west, measuring 11.1 x 9 x 0.3 m and with less identifiable structure. A large magnetic value of 816 nT has been associated with the location of this wreck indicating the presence of ferrous material. It is unclear from this dataset whether the wreck is broken in two or whether it is partially buried in the centre. However, previous data indicates probable burial.
- 3.1.12 The wreck was previously identified (WA 2015a) as a single section with the upstanding section of the wreck measuring 20.3 x 8.3 x 0.4 m. The boundary of the wreck as indicated by the extents observed on the previous sidescan sonar data indicate a larger spread of material on the seabed covering approximately 42 x 15 m. It is inferred that the south-west section was buried at this time and that the wreck has been subsequently uncovered by mobile seabed sediments. The most recent high resolution dataset indicates that the wreck boundary is well constrained with no evidence of any further associated debris on the seabed. However, it is possible for debris to be buried within the immediate vicinity.
- 3.1.13 The identity of this wreck is unknown and is not recorded within the UKHO database. However, it has previously been suggested that this could relate to UKHO record 10324 ; that of the sinking position of the *Ocean Pride*, located approximately 545 m to the north-east (section 3.1.48, **Figure 2a**). The size and form of the wreck observed in the data is similar to the original vessel dimensions. Due to the distance, further investigation would be needed to confirm this.
- 3.1.14 Two anomalies (**7232** and **7292**) were interpreted as wrecks located on the edge of the ECR corridor and have not been seen in full. Anomaly **7232** was identified as the south-west section of a wreck known to be in two parts with the north-east section not covered by this dataset and located approximately 50 m north-east of the ECR corridor. The wreck section was observed on the edge of the sidescan sonar and multibeam echosounder data as mound with an amount of surrounding structure and debris visible measuring 40.2 x 14.4 x 1.5 m. A very large magnetic value of 25,822 nT has been associated with the location of this wreck which indicates the presence of ferrous material, and would mask any smaller responses of buried ferrous material.
- 3.1.15 The wreck was previously identified (WA 2010, 2015) with the central location situated approximately 150 m north-east from the ECR corridor, with total measurements of 55.9 x 28.9 x 7.3 m in height. The original central position and boundary extents of each section have been maintained. The wreck, interpreted as the possible HMS *Moravia* from UKHO record 10217, has a current recommended 50 m Archaeological Exclusion Zone (AEZ) around the known wreck extents (**Figure 2e**).

- 3.1.16 Anomaly **7292** was identified as two distinct pieces in the most current dataset, interpreted as a wreck either in two sections or buried in the centre. The central position is located approximately 172 m from the nearest proposed ECR. The identity of this wreck is unknown and is not recorded within the UKHO database. The observed wreck measures a total of 33 x 16 x 1.9 m with the north-west section observed as an irregular area of dark and bright reflectors, with some possible structure such as ribs visible. It was observed on the edge of the sidescan sonar and multibeam echosounder and appears to extend out of each dataset. This section measures at least 15.9 x 15.1 x 0.8 m. The south-east area was observed as a distinct elliptical outline of a vessel with some superstructure visible including possible boilers or a cabin or wheelhouse. This section measures 10.7 x 7.7 x 1.9 m. A piece of debris identified between the sections could indicate further buried structure. Some scour and further surrounding debris is also visible. A very large magnetic value of 44638 nT is associated with this location which would mask any small responses of buried ferrous material in the surrounding area.
- 3.1.17 The wreck was previously identified (WA 2010, 2015) in two distinct parts measuring 51 x 15 x 3.3 m and then subsequently as 39.8 x 17.6 x 2.9 m, which seems to indicate that the wreck is becoming increasingly buried. The original boundary extents have been maintained to show the known extents of the wreck which do extend 28 m west of the ECR corridor. A current recommended 50 m AEZ exists around this boundary (**Figure 2b**).
- 3.1.18 Two anomalies (**70203** and **70351**) have been interpreted as a debris field, comprising a group of objects interpreted as anthropogenic in origin, both identified in the previous survey (WA 2015a). Anomaly **70203** has been identified in both the sidescan sonar and echosounder datasets, comprising several objects within a depression, with the central position located approximately 67 m north-east of the nearest proposed ECR. The depression measures 18.1 x 10.5 x -0.5 m. The largest two objects measure 3.2 x 1.3 x 0.4 m and 3.1 x 0.9 x 1.1 m respectively. A very large individual magnetic value of 1749 nT has been associated with this debris field, however, this anomaly is located within an area of high magnetic response extending approximately 60 m to the north, 40 m to the south and measures approximately 50 m in diameter (**Figure 2a; Figure 3**), indicating the possibility of extensive buried material.
- 3.1.19 Anomaly **70351** has been observed in the current sidescan sonar data only as a large area of small linear dark reflectors with some bright shadow measuring approximately 32 x 23 x 0.3 m with a tight cluster of dark and bright reflectors of anthropogenic origin at the north-west edge of the anomaly boundary measuring 9.8 x 4.7 m. The central position of the anomaly is located approximately 119 m north-east of the nearest proposed ECR. The width of the objects range from 0.2 m to 0.4 m. A large individual magnetic value of 683 nT has been associated with this debris field indicating ferrous material. This anomaly is situated within a large area of high magnetic response which extends approximately 95 m south of the observed anomaly (**Figure 2a; Figure 3**).
- 3.1.20 Three anomalies (**70297**, **70539** and **71299**) have been interpreted as individual pieces of debris; an object interpreted to be of anthropogenic origin. Anomaly **70297** was identified in the current sidescan sonar data but is located approximately 7 m outside the current ECR corridor. Observed as a curved dark reflector with corresponding shadow and a perpendicular linear measuring 2.3 x 0.1 x 0.1 m. An associated magnetic value of 8 nT indicates the presence of some ferrous material. This anomaly has been interpreted as a possible anchor and was identified in the previous survey (WA 2015a). An existing 20 m AEZ centred on the previous location encroaches on the ECR corridor (**Figure 2e**).
- 3.1.21 Anomaly **70539** was identified in the previous survey (WA 2015a) and has subsequently been discovered to comprise wreck-related material through Remotely Operated Vehicle

(ROV) investigation. It was observed in the most recent dataset as in irregular area of dark reflectors measuring a total of 8.6 x 8 x 0.4 m comprising three objects; a curved object measuring 3.6 x 1.9 x 0.4 m, a linear object measuring 2.3 x 0.4 x 0.1 m, with a perpendicular object measuring 3.2 x 0.1 x 0.2 m. The debris is situated within an area of increased magnetic response indicating the presence of buried ferrous material is likely. The anomaly itself is associated with a magnetic value of 71 nT (**Figure 2d; Figure 3**).

- 3.1.22 Anomaly **71299** has not been previously identified. It has been observed in the sidescan sonar data as a sub-angular area of bright reflector encased by dark reflector measuring 6.0 x 4.1 x 0.5 m and is located in the centre of the two proposed ECRs. This anomaly has been associated with a medium magnetic value of 339 nT indicating the presence of ferrous material (**Figure 2c**).
- 3.1.23 One anomaly (**71337**) has been interpreted as a seafloor disturbance; a group of objects or feature of unknown origin, measuring 24.4 x 3.8 x 0.6 m with the central position located approximately 121 m from the nearest proposed ECR. This anomaly has not been previously identified. This anomaly could be natural in origin, although it is associated with a very large magnetic value of 1102 nT, which indicates the presence of ferrous material. This anomaly is located within the vicinity of anomaly **70203** (**Figure 2a; Figure 3**).
- 3.1.24 The remaining five anomalies classified as A1 (**70373, 71278, 71305, 71444** and **71485**) have been interpreted as magnetic anomalies only with no corresponding feature identified in the sidescan sonar or multibeam echosounder datasets. Anomaly **70373** has been previously identified by WA (WA 2015a) as a small magnetic anomaly of 24 nT. In the most recent dataset this anomaly was observed as a very large magnetic value of 2539 nT, located approximately 52 m north-east of the nearest proposed ECR. The increase in observed magnetic value is due to the increased data resolution and proximity of magnetometer to the seabed. This magnetic value indicates the presence of ferrous material in the area which is presumed buried (**Figure 2a; Figure 4**).
- 3.1.25 The remaining four anomalies have not been previously identified. Anomaly **71278** is located approximately 17 m east of the nearest proposed ECR with a very high magnetic value of 1239 nT; indicating the presence of ferrous material, presumed buried (**Figure 2c; Figure 4**).
- 3.1.26 Anomaly **71305** is located approximately 33 m west of the nearest proposed ECR with a very high magnetic value of 1337 nT; indicating the presence of ferrous material, presumed buried (**Figure 2c; Figure 4**).
- 3.1.27 Anomaly **71444** is located approximately 14 m north-east of the nearest proposed ECR with a very high magnetic value of 1095 nT; indicating the presence of ferrous material, presumed buried (**Figure 2c**).
- 3.1.28 Anomaly **71485** is located approximately 106 m south-west of the nearest proposed ECR with a very high magnetic value of 1007 nT; indicating the presence of ferrous material, presumed buried (**Figure 2h**).
- 3.1.29 A total of 586 anomalies have been interpreted as A2 – Uncertain origin of possible archaeological interest (for full list see **Appendix I**).
- 3.1.30 Two of these anomalies (**70200** and **70205**) have been previously interpreted as debris fields (WA 2015a). Anomaly **70200** was observed in the most recent dataset as a linear group of irregular dark reflectors measuring 10.3 x 2.7 x 1.2 m in total with a larger object measuring 5.7 x 1.6 x 1.2 m visible. This anomaly was also identified in the multibeam echosounder data and has an associated magnetic value of 31 nT indicating the presence

of ferrous material. This anomaly is located approximately 37 m south-west of the nearest proposed ECR (**Figure 2a**)

- 3.1.31 The location of **70205** is identified as a large spread of objects, circular and angular in form, each measuring approximately 3.8 x 1.4 m. The total area measured 38 x 8.6 x 0.7 m and was not associated with a magnetic anomaly indicating the material is non-ferrous (**Figure 2a**).
- 3.1.32 A total of 53 anomalies have been interpreted as individual pieces of debris (for full list see **Appendix I**). Of these, only seven anomalies (**70296**, **71165**, **71401**, **71402**, **71404**, **71405** and **71438**) were not associated with a magnetic value therefore indicating material is non-ferrous. Sixteen of these anomalies have been previously identified (WA 2010, 2015). The pieces of debris range in size from anomaly **70566**; measuring 0.9 x 0.1 x 0.1 m with an associated magnetic value of 10 nT, up to anomaly **7269**; measuring 8.4 x 6.9 x 0.8 m with an associated magnetic value of 202 nT. This size range does not include debris with attached linear anomalies.
- 3.1.33 The remaining 46 pieces of possible ferrous debris have associated magnetic values ranging in size from 7 nT (**70488**) up to 530 nT (**70270**). Anomaly **70270** is described as a small rounded object measuring 1 x 0.5 x 0.3 m, with scouring and sediment build-up to one side. A linear object is attached measuring 69.3 x 0.3 x 0.1 m which extends south out of the ECR corridor, with an associated magnetic value of 16 nT along this length. It has been interpreted as a possible anchor with chain.
- 3.1.34 Twenty-five anomalies have been identified as linear objects interpreted as rope or chain (for full list see **Appendix I**). Of these, nine anomalies have been previously identified (WA 2010, 2015). Seven of the linear anomalies (**70215**, **70216**, **71092**, **71191**, **71196**, **71197** and **71346**) have no associated magnetic value and therefore likely to be non-ferrous in origin, the remainder have a ferrous component. The anomalies range in size from **70481**; measuring 4.1 x 0.3 x 0.1 m with a magnetic value of 78 nT, to anomaly **71197**; measuring 145 x 0.5 x 0.1 m with no associated magnetic value.
- 3.1.35 The eighteen ferrous linear anomalies have associated magnetic values ranging in size from 7 nT (**70293**) up to 249 nT (**7296**) and are more likely to be interpreted as chain features. Anomaly **7296** has previously been identified (WA 2010, 2015) as a linear measuring 12.7 x 0.5 m. It was not identified in the most recent dataset. However, due to its being identified in multiple surveys and the presence of such a large magnetic anomaly indicating the presence of ferrous material, it has been presumed buried since the last survey and the classification of rope or chain has been retained.
- 3.1.36 Nine anomalies (**70251**, **71034**, **71087**, **71245**, **71256**, **71319**, **71320**, **71334** and **71456**) have been interpreted as a seafloor disturbance (**Appendix I**). None of these anomalies have an associated magnetic value. Only one anomaly, **70251**, has been previously identified (WA 2015a). The areas of seafloor disturbance range in size from **71034**; measuring 3 x 1.7 m with no recorded height, up to **71334**; measuring 15.2 x 2.4 x 0.7 m. Anomaly **71334** is described as a distinct elongated area of objects which appears to be all one feature. This anomaly was also identified in the echosounder data. This anomaly could be natural in origin. Anomaly **71319**, described as a distinct area of rounded, irregular and straight objects within a distinct slight depression and measuring 11.1 x 7.8 x 0.1 m, is also quite large and was not seen in its entirety in the sidescan sonar data (the feature extends beyond the coverage of the data) (**Figure 2b**).
- 3.1.37 Five anomalies (**7268**, **70218**, **71332**, **71338** and **71464**) have been interpreted as mounds; a distinct area of disturbance of unknown origin. None of these anomalies have an associated magnetic value and are thought to be non-ferrous in composition.

Anomalies **7268** and **70218** have been previously identified (WA 2010, 2015). All were identified within the echosounder data with only anomaly **7268** also being identified within the sidescan sonar data.

- 3.1.38 These anomalies range in size from **71322**; a single small mound measuring 3.3 x 2.3 x 1.0 m up to **71338**; described as a single feature comprised of three small linear mounds measuring 9.7 x 2.1 x 0.2 m.
- 3.1.39 One anomaly, **7260**, has been interpreted as a bright reflector; an area of low reflectivity that could possibly represent a piece of debris composed of material that absorbs acoustic waves rather than reflecting them, such as saturated wood. This object has been previously identified (WA 2010, 2015). The bright reflector measures 3.2 x 0.6 x 0.4 m and is described as a straight edged, angular object with no dark reflector discernible. It was previously observed as a dark reflector measuring 4.0 x 2.7 x 0.8 m, possibly indicating slight burial since the previous survey, and that it may comprise materials of varying reflective properties.
- 3.1.40 A total of 27 anomalies have been interpreted as dark reflectors; anomalous to the surrounding seabed, displaying some anthropogenic characteristics, although their precise nature is uncertain (for full list see **Appendix I**). These anomalies will not have an associated magnetic value. Only two, **70263** and **70269**, have been previously identified (WA 2015a).
- 3.1.41 The dark reflectors range in size from anomaly **71018**; measuring 0.6 x 0.1 x 0.9 m and described as a small, indistinct angular object with a tall height shadow, up to anomaly **71460**; measuring 9.5 x 3.0 x 0.5 m and described as an angular object that appears to interrupt a sand wave formation. These sizes do not include surrounding seabed disturbance.
- 3.1.42 The remaining 464 A2 anomalies (for full list see **Appendix I**) were identified in the marine magnetometer data only with 55 having been previously identified (WA 2010, 2015). The increased number of magnetic anomalies observed is due to the increased data resolution and proximity of magnetometer to the seabed. None of the 464 magnetic anomalies had corresponding sidescan sonar or bathymetry targets and therefore all have the potential to represent possible buried ferrous debris. The magnetic anomalies range in size from 6 nT (**71029**) up to 884 nT (**7262**).
- 3.1.43 Due to the range in size of these A2 anomalies, a further discrimination has been added to the A2 classification, based on the length of the identified objects and the size of the magnetic amplitude. Magnetic only anomalies up to 50 nT, and those anomalies measuring up to 3 m in length, have been classified as of lower archaeological potential and could be related to natural features.
- 3.1.44 There are 348 anomalies of lower archaeological potential. Of these, 308 are magnetic only anomalies, 21 are anomalies with no associated magnetic value but measure less than 3 m in length and the remaining 19 anomalies measure less than 3 m in length and also have an associated magnetic value of less than 50 nT.
- 3.1.45 Those anomalies including 50 nT and above, and those measuring 3 m and above, retain their normal A2 potential rating. There are 238 anomalies which retain the normal A2 potential rating, of which 156 are A2 magnetic only anomalies.
- 3.1.46 Of these A2 magnetic anomalies, nine (**7262**, **7291**, **7294**, **71131**, **71168**, **71285**, **71304**, **71328** and **71333**) have a magnetic amplitude of more than 500 nT. These range from 505 nT (**7291**) up to 884 nT (**7262**). These anomalies have the potential to represent larger areas of possible buried ferrous debris or wreck sites.

- 3.1.47 There are three records (**7237**, **7258** and **7337**) discriminated as A3 - Historic record of possible archaeological interest with no corresponding geophysical anomaly identified in the data.
- 3.1.48 Record **7258** is located inside the ECR corridor (**Figure 2d**) approximately 86 m from the nearest proposed ECR. It is the reported position of the loss of HMT *Numitor* (UKHO record 10255). However, this wreck record was based on contemporary accounts for the recorded loss of the vessel and essentially represents a recorded loss rather than a charted wreck site. No documentation to date confirms that the remains of this vessel have ever been observed on the seafloor during past hydrographic surveys and no geophysical anomalies were identified in the most recent dataset at this location. This anomaly is classified as an “unobserved wreck”.
- 3.1.49 Record **7237** is located outside the ECR corridor and was not covered by the most recent dataset but has a current AEZ that impacts on the current ECR corridor. Anomaly **7237** is the position of UKHO wreck 10219 (*SS Frankrig*). This position has never been associated with a sidescan sonar or echosounder feature. In a previous survey WA (2015) identified a small magnetic amplitude of 9 nT at this position. However, this anomaly is not large enough to represent such as vessel, though some buried debris may be present. This anomaly therefore retains the classification of “magnetic” even though it is an A3 (**Figure 2e**).
- 3.1.50 The remaining record, **7337**, is located within the ECR corridor (**Figure 2a**) approximately 179 m from the nearest proposed ECR. It is the reported location of the loss of British fishing vessel *Ocean Pride* which sank on approaching the beach at Sizewell on 10th April 1972 (UKHO record 10324). However, this wreck record was based on contemporary accounts for the recorded loss of the vessel and essentially represents a recorded loss rather than a charted wreck site. No documentation to date confirms that the remains of this vessel have ever been observed on the seafloor during past hydrographic surveys and no geophysical anomalies were identified in the most recent dataset at this location. It has been previously suggested (WA 2015a) that this record may relate to the remains of the wreck identified by anomaly **7346**, located approximately 545 m to the south-west (section 3.1.13, **Figure 2a**). The size and form of the wreck observed in the data is similar to the original vessel dimensions of the *Ocean Pride*.

4 DISCUSSION AND RECOMMENDATIONS

- 4.1.1 The Galloper Offshore Wind Written Scheme of Investigation (WSI) (WA 2016b) contains extensive guidance on the archaeological monitoring and mitigation necessary for the development as required by the conditions of Marine Licence. 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 (WA 2016b).
- 4.1.2 Across the proposed ECR corridor a total of 603 anomalies have been identified by WA; fourteen of which have been assigned an A1 discrimination (**7232**, **7292**, **7346**, **70203**, **70297**, **70351**, **70373**, **70539**, **71278**, **71299**, **71305**, **71337**, **71444** and **71485**). AEZs are recommended for nine of the fourteen A1 anomalies within the ECR. A further five anomalies classified as A1 are not subject to AEZs (**70373**, **71278**, **71305**, **71444** and **71485**). These are large (>1000 nT) magnetic only anomalies but their extent is unknown. It is recommended that the scheme design is microsited to avoid these anomalies. Micrositing involves the modification of the proposed scheme design, site configuration

and predetermined anchor spreads or jack-up leg placement so as to avoid vulnerable receptors.

- 4.1.3 For the wreck site of anomaly **7346**, situated within the ECR corridor, the recent higher resolution dataset indicates that the wreck site is well-constrained and although there is a possibility of buried debris associated with the wreck, it is considered that this would be localised. As such, a revised AEZ of 30 m around the known wreck extents is recommended (**Figure 2a**).
- 4.1.4 The two wreck site anomalies situated on the edge of the proposed ECR corridor, **7232** and **7292**, should retain the existing 50 m AEZs around the known wreck extents. Where the known wreck extents and the AEZs encroach on the proposed ECR; avoidance is recommended.
- 4.1.5 For anomaly **71299**, classified as an individual piece of debris within the ECR corridor, an AEZ of 20 m around the location of the feature is recommended. Avoidance is recommended.
- 4.1.6 For anomaly **70539**, identified by ROV as wreck related debris (including a ship's bell) with a large surrounding magnetic disturbance and situated within the ECR corridor, a temporary 15 m AEZ was recommended around the extents of the debris as identified by the ROV, impacting the ECR corridor. Further details regarding the mitigation for this site can be found in the *Heritage Method Statement: Addendum (Carica Milica)* report (WA 2016a).
- 4.1.7 For anomaly **70297**, classified as an individual piece of debris outside the ECR corridor, the retention of the existing 20 m AEZ around the location of the feature is advised. Where the known AEZ encroaches on the proposed ECR; avoidance is recommended.
- 4.1.8 It is recommended that anomalies **70203** (debris field in an area of high magnetic response), **70351** (a seafloor disturbance in an area of high magnetic response) and **71337** (a seafloor disturbance) have a temporary AEZ put in place around the extents of each feature.
- 4.1.9 There are three records of A3 archaeological discrimination (**7237**, **7258** and **7337**).
- 4.1.10 Records **7258** and **7337** are located within the proposed ECR corridor. However, these wreck records were based on contemporary accounts for the recorded loss of the vessels and essentially represent recorded losses rather than charted wreck sites (see 3.1.49 and 3.1.50). Indeed, it has been suggested previously by WA that the record for **7337** may correspond with the wreck anomaly **7346** (*Ocean Pride*), some 545 m to the south-west. On this basis the removal of the existing 100 m AEZs around both these A3 locations is recommended, though an avoidance strategy is advised. If any archaeological material is subsequently recovered then it should be reported through Offshore Renewables Protocol for Archaeological Discoveries (ORPAD) and further mitigation may be required.
- 4.1.11 Record **7237**, relating to an unobserved wreck position, is situated outside the proposed ECR corridor and not covered by the most recent dataset. The existing 100 m AEZs around this position should be retained, though where this encroaches on the proposed ECR corridor, WA advises an avoidance strategy.

Table 5 AEZs within or impacting on the Export Cable Route corridor

WA ID	Classification	Archaeological Discrimination	AEZ centred on		Buffer
			Easting	Northing	
7232	Wreck	A1	418721	5767960	50 m buffer around feature extents
7237	Recorded wreck	A3	418180	5768253	100 m buffer around point location
7292	Wreck	A1	411451	5781223	50 m buffer around feature extents
7346	Wreck	A1	406030	5784894	30 m buffer around feature extents
70203	Debris field	A1	408586	5785099	Temporary AEZ around feature extents
70297	Debris	A1	417472	5769691	20 m buffer around point location
70351	Seafloor disturbance	A1	408911	5785070	Temporary AEZ around feature extents
70351	Magnetic	A1	408887	5785009	Temporary AEZ around feature extents
70539	Debris	A1	414476	5775679	Temporary AEZ around feature extents
71299	Debris	A1	412277	5779525	Temporary 20 m buffer around point location
71337	Seafloor disturbance	A1	408612	5785145	Advisory 15 m AEZ around feature extents

- 4.1.12 A further 586 anomalies of A2 archaeological discrimination have been identified. No new AEZs are recommended at this time although avoidance of these features is advised by means of micrositing the scheme design as discussed above.
- 4.1.13 These A2 anomalies have been further discriminated based on size in length and size of magnetic amplitude. Anomalies measuring less than 3 m in length and less than 50 nT in amplitude have been given a A2 rating of lower potential. There are 348 anomalies of lower potential.
- 4.1.14 If any archaeological material is recovered at these or any other locations then it should be reported through ORPAD and further mitigation may be required.
- 4.1.15 Mitigation regarding the targeting of anomalies by Remotely Operated Vehicle (ROV) survey due to be undertaken as part of the Unexploded Ordnance (UXO) Clearance and Disposal operations is detailed in the updated WSI (WA 2016b) and UXO Heritage Method Statement (WA 2016c). The purpose of the ROV survey is to ground-truth the anomalies to inform upon the application of suitable mitigation measures. By means of ground-truthing the anomaly, the data retrieved from the ROV survey may result in the recommended removal of the AEZ, thus permitting invasive groundworks to take place.

5 REFERENCES

- Wessex Archaeology 2010 *Galloper Wind Farm Project; Desk-Based Archaeological Assessment*. Salisbury, unpubl rep 66802.02.
- Wessex Archaeology 2012 *Galloper Offshore Wind; Written Scheme of Investigation: Offshore*. Salisbury, unpubl rep 85470.01.
- Wessex Archaeology 2015a *Galloper Offshore Wind Farm; archaeological assessment of geophysical data and stage 1 geoarchaeological assessment of geotechnical logs*. Salisbury, unpubl rep 106221.01
- Wessex Archaeology 2016a *Galloper Offshore Wind Farm; Review of Archaeological Material during Unexploded Ordnance Survey (Export Cable Route). Heritage Method Statement: Addendum (Carica Milica)*. Salisbury, unpubl rep 106223.01
- Wessex Archaeology 2016b *Galloper Offshore Wind Farm; updated Written Scheme of Investigation: Offshore*. Salisbury, unpubl rep 106221.02
- Wessex Archaeology 2016c *Galloper Offshore Wind Farm; Review of Archaeological Material during Unexploded Ordnance Survey (Export Cable Route). Heritage Method Statement*. Salisbury, unpubl rep 106221.03



APPENDIX I – SEABED ANOMALIES OF ARCHAEOLOGICAL POTENTIAL

WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
7232	Wreck	418725	5767969	A1	40.2	14.4	1.5	25822	<p>Known wreck observed by sonar, magnetometer and bathymetry data in both the previous and current surveys. Only covered in part in the most recent survey with the south-west section observed in part and the north-east section not observed in this dataset. Previous survey measured 55.9 x 28.9 x 7.3 m with a magnetic value of 2987 nT. Shows some structure and significant height, though is badly damaged. Large ferrous wreck remains with dispersed structure or debris around it, survives as two distinct pieces each 30 m in length and approximately 20 - 30m apart. Appears to be lying on its side, its northern end looks broken up. Possibly partially buried. Some structure visible but generally indistinct. Large amount of scouring surrounding the wreck measuring 102 x 32m and mainly orientated to the south.</p> <p>The UKHO records the wreck as possibly HMS Moravia, a steam trawler built in 1917 by Cook, Welton & Gemmel Ltd, Beverley for the Boston Deep Sea Fishing & Ice Company. She had one boiler and a triple expansion engine of 89hp with a single shaft (machinery by Amos and Smith). The vessel</p>		ECR	10217 (UKHO)



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
									dimensions were 39.6m length x 7m beam x 3.7m draught with a gross tonnage of 306. At time of loss, the Moravia was owned by the Admiralty and was armed with one 6pdr gun. She was mined in 1943. Several shell cases have previously been found close to the gun on the bow. On the edge of recent dataset and only seen in part, with surrounding debris. Current dimensions taken from section seen in this dataset centred on 418704, 5767939, though original central position and boundary extents maintained. South-west section situated along the current ECR corridor boundary with a recommended 50 m AEZ.			



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
7237	Magnetic	418180	5768253	A3	-	-	-	-	Previously observed as a small magnetic anomaly (9 nT) only identified on one survey line, without an associated sidescan sonar or multibeam bathymetry contact. Located at the position of UKHO wreck 10219 (SS Frankrig), a British steamship with a gross tonnage of 1361 sunk in 1940. However, the wreck has not been located by repeated surveys and amended to 'dead'. The magnetic anomaly is not large enough to represent a steel hulled vessel, although some buried ferrous debris may exist at this location. Not covered by the latest geophysical data and situated outside the current boundary. However, recommended exclusion zone impacts on the current ECR corridor.		ECR	10219 (UKHO)
7247	Debris	417337	5769893	A2	1.7	0.4	0.6	15	Small magnetic anomaly identified across several lines. Previously seen as a small dark reflector (1.7 x 0.4 x 0.6 m) which may now be buried. Position of object given.	Low	ECR	-
7258	Unobserved wreck	416541	5772917	A3	-	-	-	-	Given position of UKHO record 10255 (loss of HMT Numitor), not identified in either sonar, echosounder or magnetometer data in the current or previous in surveys. Assumed natural feature or unreliable positioning. UKHO records a British ship of 242 gross tonnage mined off Orfordness on 20/4/1918 whilst in Admiralty service. The wreck was not found during		ECR	10255 (UKHO)



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
									repeated surveys and amended to 'dead'. The NMR adds that HMT Numitor was a Belgian trawler hired by the Admiralty in 1916, armed with 1 6pdr gun. Situated within current boundary. Due to loss record and no wreckage found no AEZ is recommended at this time.			
7260	Bright reflector	415920	5773610	A2	3.2	0.6	0.4	-	Straight edge of an angular bright object with some bright shadow and no dark edge discernible. Previously observed as a dark reflector measuring 4.0 x 2.7 x 0.8 m, possibly indicating slight burial since last survey.		ECR	-
7262	Magnetic	415152	5774873	A2	-	-	-	884	Magnetic anomaly identified over several lines. Previously identified as a magnetic anomaly of 30 nT. Possible buried ferrous material.		ECR	-
7264	Magnetic	414555	5775387	A2	-	-	-	92	Magnetic anomaly identified on one line. Previously identified as a magnetic anomaly only (28 nT). Possible buried ferrous material.		ECR	-
7268	Mound	413942	5776531	A2	7.3	6.9	0.4	-	Probable rounded mound of dark and bright reflectors with a height shadow. Also seen as a mound in the echosounder data. Has been previously identified as a bright reflector		ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
7269	Debris	413835	5776793	A2	8.4	6.9	0.8	202	Large irregular seafloor disturbance with some angular dark reflectors, jagged, approximately 1.3 m in width. Some scour visible. Large tapered bright height shadow visible. Seen in the echosounder data as a mound (5.9 x 3.8 x 0.4 m) in an elliptical depression measuring 23.8 x 18.1 x -0.6 m. Magnetic response indicates presence of ferrous material.		ECR	-
7287	Magnetic	412029	5780044	A2	-	-	-	31	Magnetic anomaly identified over multiple lines. Previously seen as a magnetic anomaly (17 nT). Possible buried ferrous material.	Low	ECR	-
7291	Magnetic	411617	5780889	A2	-	-	-	505	Magnetic anomaly identified over three lines. Previously identified as a magnetic anomaly of 159 nT. Possible buried ferrous material.		ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
7292	Wreck	411459	5781223	A1	33	16	1.9	44638	Seen as two distinct areas in the sidescan sonar and echosounder data. Broken up wreck or possibly buried in the centre. North-west section observed as an irregular area of dark and bright reflectors with some possible structure such as ribs visible. Measures 15.9 x 15.1 x 0.8 m. Such a large magnetic anomaly associated that masks all surrounding area. Observed as a large depression in the echsounder data. South-east area measures 10.7 x 7.7 x 1.9 m and observed as a very distinct elliptical outline of a vessel, although one end is outside the trackplot and not seen in entirety. Some superstructure visible including a possible cabin or wheelhouse. Some scour to the side which may obscure further debris measuring 13.7 x 6.9 m along north edge. A piece of possible debris identified between the two sites as a cross shaped object with some scour and irregular shadow measuring 1.9 x 0.9 x 0.4 m however could indicate further buried structure (previously identified as 70302). The wreck site has been previously observed as measuring 51 x 15 x 3.3 m and more recently 39.8 x 17.6 x 2.9 m which may indicate the site is becoming buried. Original maximum boundary extents maintained. Located across the current ECR corridor		ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
									boundary with a 50 m recommended AEZ.			
7294	Magnetic	410582	5783584	A2	-	-	-	847	Magnetic anomaly identified on multiple lines. Previously identified in other datasets as a much smaller response. Possible buried ferrous material.		ECR	-
7295	Debris	410131	5784605	A2	6.3	1	0	46	Elongate dark reflector with possible very small (approx. 3 nT) magnetometer contact identified in previous dataset. Possibly anthropogenic debris. Identified as a magnetic anomaly only in this most recent survey, and could be buried at present.		ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
7296	Rope/chain	410045	5784770	A2	12.7	0.5	-	249	Anomaly identified on one line, with a second smaller anomaly nearby. Previously identified as rope/chain measuring 12.7 x 0.5 m with a magnetic anomaly of 5 nT but object not identified in most recent dataset. Possible burial since last survey. Magnetic response indicates possible ferrous material.		ECR	-
7297	Magnetic	410249	5784738	A2	-	-	-	7	Identified in the previous survey as two small magnetic anomalies, probably part of the same anomaly. Possible buried ferrous material. Location not covered by current magnetometer dataset	Low	ECR	-
7337	Unobserved wreck	406493	5785146	A3	-	-	-	-	Recorded location of the wreck of British fishing vessel Ocean Pride which sank on approaching the beach off Sizewell on 10/04/1972. The crew were recovered by the Aldeburgh lifeboat and the vessel was a total wreck. Not found during repeated surveys and classified at 'dead'. Not observed by the latest geophysical data. It is possible that this record may actually correspond with the wreck feature identified at 7346, located 545 m to the south-west. Due to recorded loss record and the fact no anomalies have ever been observed in geophysical data at this location, it is recommended that the existing 100 m AEZ be removed.		ECR	10324 (UKHO)



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
7346	Wreck	406033	5784890	A1	35.8	17.7	0.9	816	Identified on the most recent nearshore side-scan sonar data as an elongate area of irregular debris with shadow, and as an irregular mound on the MBES data. Some small pieces of possible associated debris in the immediate vicinity. An area of irregular dark reflectors with associated magnetic anomaly is identified approximately 22 m southwest which is interpreted as being part of the same wreck, indicating that the wreck may be partially buried, or in two parts. Corresponds with a large dipole identified on the magnetic data. Previously identified on the ECR data as a distinct outline of a wreck observed in two sections, with possible structure, including possible masts, and surrounding debris visible. Originally found in May 1990, measuring 20m long and lying on its port side. The wreck is mainly wooden. Nearby is an iron anchor with 3m shank and smaller anchor, also iron. Possibly relates to wreck of Ocean Pride (anomaly 7337; UKHO 10324) located approximately 545 m to the north-east. Original position and dimensions have been retained.		ECR/ Nearshore	-
70200	Debris field	408576	5784961	A2	10.3	2.7	1.2	31	Linear group of irregular dark reflectors. One larger object with some smaller objects in a line to one side. The larger object measures 5.7 x 1.6 m at maximum proportions. Seen as an		ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
									irregular disturbance in the echosounder data on the edge of sandwaves.			
70203	Debris field	408586	5785098	A1	18.1	10.5	-0.5	1749	Two irregular objects, possible debris, in a depression seen in the sidescan sonar and echosounder data. One measured as 3.1 x 0.9 x 1.1 m and 3.2 x 1.3 x 0.4 m. Some smaller reflectors also visible. Large magnetic response indicates presence of ferrous material. Object located within an area of large magnetic response extending approximately 60 m to the north, 40 m to the south and 50 m in diameter.		ECR	-
70205	Debris field	405922	5784900	A2	38	8.6	0.8	-	An area of several slightly angular dark reflectors with broad, distinct shadows, interpreted as being a debris field, has been identified on the most recent nearshore dataset . Identified previously in project 106221 as a large spread of possible debris made up of approximately 10 hard edged and diffuse dark reflectors, mostly with shadows. Original dimensions are larger than those seen on the most recent dataset, indicating some of the debris may have been buried, therefore original position has been retained, however the dimensions have been extended to include most recently observed debris.		ECR/ Nearshore	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
70215	Rope/chain	406107	5784973	A2	32.9	1	0	-	Curvilinear dark reflector without a shadow or associated magnetic anomaly. Possible length of rope or chain. Not observed in the most recent dataset.		ECR	-
70216	Rope/chain	406099	5784924	A2	23.1	0.2	0	-	Curvilinear dark reflector without a shadow or associated magnetic anomaly. Possible length of rope or chain, though as no associated magnetic anomaly, probably non-ferrous. Not observed in the most recent dataset.		ECR	-
70218	Mound	407264	5785134	A2	4	1.8	0.2	-	Small but distinct mound identified within the echosounder data only. No associated magnetic anomaly. Could be non-ferrous debris or a natural feature. Not observed in the most recent dataset.		ECR	-
70250	Debris	418678	5767692	A2	2.5	0.8	0.5	11	Slight scour and long bright shadow. Observed as a slight disturbance in the echosounder data. Possible ferrous debris.	Low	ECR	-
70251	Seafloor disturbance	417756	5768971	A2	10.8	4.4	0	-	Area of bright and dark reflectors anomalous to surroundings with no associated magnetic anomaly identified in previous survey. Not observed in the most recent dataset. Could be buried non-ferrous debris.		ECR	-
70263	Dark reflector	421725	5766196	A2	2.1	0.9	0.3	-	Elongated object with height just outside area of sand waves. No associated magnetic anomaly. Could be natural or non-ferrous debris. Not observed in the most recent dataset but could be buried.	Low	Anchor area (KP27) / ECR	-



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70264	Rope/chain	422338	5765300	A2	17.3	0.3	0.1	40	Curvilinear object, possible rope or chain although could be chain as has a magnetic value indicating ferrous content.		ECR	-
70267	Rope/chain	416932	5771873	A2	125	0.3	0.2	27	Very long curved object, possibly rope or chain, that probably extends to the other side of the trackplot. Not seen in entirety. Magnetic response indicates possible chain.		ECR	-
70268	Debris	416950	5772113	A2	3.6	0.4	0.5	272	Straight edged object with some large anomalous bright shadow and some scour present. Possible ferrous debris.		ECR	-
70269	Dark reflector	416841	5772498	A2	2.7	0.3	0.6	-	Angular thin object with large bright height shadow. Could be debris but very small.	Low	ECR	-
70270	Debris	415482	5774110	A2	69.3	0.3	0.1	530	Long curvilinear object with some varying shadow seems to extend over the trackplot and out each side. Has an associated magnetic anomaly of 15.9 nT along length. Extends out of ECR corridor. Small rounded object at north end measuring 1 x 0.5 x 0.3 m with scouring and sediment build up to one side, which has associated magnetic anomaly of 530 nT. Possibly rope/chain with an anchor.		ECR	-
70293	Rope/chain	417111	5770532	A2	34.7	0.4	0.1	7	Large curvilinear, indistinct in places and then may not be in whole. Measured as an area of 9 x 2.3 m. Previously seen as a single object. Possible chain.		ECR	-



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70294	Debris	417123	5770604	A2	2.1	0.5	0.5	18	Angular object with a straight edge with some bright shadow. Seems to be scoured or disturbed to one side. Observed as a disturbance in the echosounder data. Previously seen as 1.4 x 1.3 x 0.5 m. Possible ferrous debris.	Low	ECR	-
70295	Rope/chain	417305	5770179	A2	29.7	0.3	0.1	86	Long curvilinear, possible rope/chain, more likely chain due to magnetic value. Possibly snagged on an object at the north end measuring 1.6 x 0.3 x 0.1 m. In a depression or scour. Varying height shadow.		ECR	-
70296	Debris	417446	5769696	A2	17.7	0.6	0.1	-	Several curved objects, possibly one curvilinear. Largest measuring 3.1 x 0.4 x 0.1 m and a smaller one measuring 1.7 x 0.2 x 0.1 m. In an area 7.3 x 0.4 m. Short straight object with some bright shadow to one side of another curved object. With a linear measuring 10.7 x 0.2 x 0.1 m.		ECR	-
70297	Debris	417472	5769691	A1	2.3	0.1	0.1	8	Distinct curved dark reflector with corresponding shadow and a possible linear extension. Small associated magnetic anomaly indicates presence of ferrous material. Observed in the previous survey as 3.9 x 0.5 x 0.1 m with no magnetic anomaly. Interpreted as probable debris and a possible anchor. Located outside the ECR corridor but has an existing 20 m AEZ which does impact the ECR corridor.		ECR	-



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70312	Magnetic	406413	5785101	A2	-	-	-	13	Magnetic anomaly with no associated seabed anomaly. Possible buried ferrous debris. Not observed in most current dataset	Low	ECR	-
70314	Magnetic	406396	5785043	A2	-	-	-	87	Magnetic anomaly identified only. Previously identified as an object measuring 0.6 x 0.4 x 0.2 m with a magnetic association of 91 nT. Assumed now buried ferrous material.		ECR	-
70315	Magnetic	406375	5785034	A2	-	-	-	9	Magnetic anomaly only. Possible small piece of buried ferrous debris or a natural feature. Not observed in most current dataset	Low	ECR	-
70316	Magnetic	406371	5785085	A2	-	-	-	17	Magnetic anomaly, no associated seabed anomaly. Possible buried ferrous debris. Not observed in most current dataset	Low	ECR	-
70317	Magnetic	406369	5785172	A2	-	-	-	20	Magnetic anomaly over two lines, no associated seabed anomaly. Possible buried ferrous debris. Not observed in most current dataset	Low	ECR	-
70319	Magnetic	406361	5784929	A2	-	-	-	155	Magnetic anomaly identified on several lines. Possibly a linear feature. Identified at a much lower amplitude previously. Possible buried ferrous material.		ECR	-
70322	Magnetic	406230	5785097	A2	-	-	-	8	Magnetic anomaly only. Possible small piece of buried ferrous debris or a natural feature. Not observed in most current dataset	Low	ECR	-
70324	Magnetic	406495	5785060	A2	-	-	-	25	Magnetic anomaly identified on two lines. Previously identified only on one line so possible linear feature. Possible buried ferrous material.	Low	ECR	-



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70337	Magnetic	406200	5784913	A2	-	-	-	19	Magnetic anomaly identified on multiple lines. Previously identified as a small anomaly. Possible buried ferrous material.	Low	ECR	-
70351	Debris field	408910	5785065	A1	45.7	23.2	0.3	683	Area of dark reflectors with some bright shadow. Long linear arrangement of intermittent straight dark reflectors with some height shadow approx. 32 x 23 x 0.3 m with a smaller tighter cluster measuring 9.8 x 4.7 m to the north-west. Narrows to 4.7 m in width and some reflectors 0.2 m to 0.4 m in width. Large magnetic anomaly identified across several lines. Previously identified only as a magnetic anomaly. Associated area of large magnetic response extending approximately 95m to the south of observed anomaly.		ECR	-
70360	Magnetic	408470	5785113	A2	-	-	-	54	Magnetic anomaly identified at the very end of one line. Identified previously as a magnetic anomaly. Possible buried ferrous material.		ECR	-
70363	Magnetic	408403	5785043	A2	-	-	-	95	Magnetic anomaly identified on several lines, quite broad response. Previously identified as a smaller anomaly. Possible buried ferrous material.		ECR	-
70371	Magnetic	408319	5785091	A2	-	-	-	43	Magnetic anomaly identified over three lines, quite broad. Possibly part of a linear with 70377. Possible buried ferrous material.	Low	ECR	-
70373	Magnetic	409171	5784928	A1	-	-	-	2539	Large magnetic anomaly identified on multiple magnetometer data lines only, possibly linked to 71325 and 71326.		ECR	-



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									Observed in previous dataset as a small elongate dark reflector measuring 2.6 x 0.4 x 0.3 m. Possible buried ferrous debris.			
70376	Magnetic	408402	5785104	A2	-	-	-	52	Magnetic anomaly identified over multiple lines. Possible buried ferrous material.		ECR	-
70377	Magnetic	408304	5785151	A2	-	-	-	85	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
70378	Magnetic	408126	5785214	A2	-	-	-	10	Magnetic anomaly identified over two lines. Previously observed as 39nT. Possible buried ferrous material.	Low	ECR	-
70381	Magnetic	407622	5785425	A2				27	Magnetic anomaly identified in previous dataset though not observed in most current dataset. Possible buried ferrous material.	Low	ECR	-
70395	Magnetic	408261	5785102	A2	-	-	-	18	Magnetic anomaly identified over three lines, quite broad. Previously identified as a small magnetic anomaly of 9nT. Possible buried ferrous material.	Low	ECR	-
70401	Magnetic	428448	5761078	A2	-	-	-	30	Magnetic anomaly identified over three lines, previously identified as a magnetic anomaly only. Possible buried ferrous material.	Low	ECR	-
70409	Magnetic	410535	5783882	A2	-	-	-	25	Magnetic anomaly identified over multiple lines. Previously identified as an anomaly of 9 nT. Possible buried ferrous material.	Low	ECR	-



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70411	Magnetic	409941	5784854	A2	-	-	-	97	Magnetic anomaly identified on multiple lines. Possible buried ferrous material. After interpreting infill data, position changed and has had 71323 grouped with it.		ECR	-
70414	Magnetic	411535	5781060	A2	-	-	-	420	Magnetic anomaly identified over two lines. Identified in an area of increased magnetic response due to wreck 7292 however previously identified as a distinct anomaly within this area. Could be buried debris.		ECR	-
70416	Magnetic	411632	5781113	A2	-	-	-	39	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
70420	Magnetic	409988	5784846	A2	-	-	-	111	Magnetic anomaly identified over several lines. No associated seabed anomaly. Possible buried ferrous debris. Position revised after looking at infill data		ECR	-
70431	Magnetic	412011	5780458	A2	-	-	-	83	Magnetic anomaly identified on three lines. Previously identified as a small anomaly of 12 nT. Possible buried ferrous material.		ECR	-
70432	Magnetic	412298	5779550	A2	-	-	-	289	Magnetic anomaly identified on several lines. Previously identified as an anomaly of 62 nT. Distinct from but could be related to 71299. Possible buried ferrous material.		ECR	-
70433	Magnetic	412464	5779128	A2	-	-	-	101	Magnetic anomaly identified over several lines. Previously identified at a smaller amplitude of 28 nT. Could be related to 71293 - 71295. Possible buried ferrous material.		ECR	-



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70452	Magnetic	424253	5763893	A2	-	-	-	29	Magnetic anomaly identified on one line. Also identified in the previous dataset. Possible buried ferrous material.	Low	ECR	-
70453	Debris	424498	5763623	A2	1	0.8	0.2	66	Small rounded object with corresponding bright shadow with some build-up and scour on each side. Magnetic anomaly observed over several lines. Identified in the previous dataset as a magnetic anomaly only of 19 nT. Possible ferrous debris.		ECR	-
70465	Debris	431962	5758197	A2	3	0.5	0.4	43	Irregular object, possibly with scour to the side and irregular bright height shadow. Previously identified as a magnetic anomaly only. Possible ferrous debris		ECR	-
70466	Debris	431956	5757494	A2	1.7	0.8	0.4	70	Indistinct object, possibly two close together with irregular height shadow. Previously seen as a magnetic anomaly only. Possible ferrous debris.		ECR	-
70468	Magnetic	431903	5757680	A2	-	-	-	65	Clear anomaly, possibly observed on adjacent line. Previously seen as a small magnetic anomaly of 23 nT. Possible buried ferrous material.		ECR	-
70470	Magnetic	417175	5771522	A2	-	-	-	23	Magnetic anomaly identified over two lines. Previously identified as a small anomaly of 5 nT. Possible buried ferrous material.	Low	ECR	-
70473	Magnetic	417224	5770546	A2	-	-	-	49	Magnetic anomaly identified on multiple lines. Previously identified as a small anomaly of 8 nT. Possible buried ferrous material.	Low	ECR	-



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70477	Magnetic	418141	5768788	A2	-	-	-	60	Magnetic anomaly identified on several lines. Previously identified as a small anomaly of 5 nT. Possible buried ferrous material.		ECR	-
70480	Magnetic	417159	5769856	A2	-	-	-	148	Magnetic anomaly identified on adjacent lines. Previously seen as smaller anomaly of 34 nT. A second smaller distinct anomaly nearby. Possible buried ferrous material.		ECR	-
70481	Rope/chain	418186	5768370	A2	4.1	0.3	0.1	78	Dark curvilinear object with some bright shadow and data looks stretched here. Measured as 10.7 m. Previously identified in the last dataset.		ECR	-
70485	Magnetic	419260	5767360	A2	-	-	-	21	Magnetic anomaly identified across two lines. Previously identified as a small anomaly of 12 nT. Possible buried ferrous material.	Low	ECR	-
70486	Magnetic	417826	5769029	A2	-	-	-	102	Magnetic anomaly identified on several lines. Previously identified as 12 nT. Possible buried ferrous material.		ECR	-
70487	Magnetic	418320	5768136	A2	-	-	-	30	Magnetic anomaly identified across a few lines. Previously identified as 12 nT. Possible buried ferrous material.	Low	ECR	-
70488	Debris	418408	5768044	A2	2.5	0.3	0.1	7	Straight object with a curve at one end. Just visible. Previously identified as a magnetic anomaly only as 13 nT. Possible ferrous debris.	Low	ECR	-
70489	Debris	418599	5767809	A2	1.7	0.6	0.4	67	Angular object with bright shadow, slightly tapered but not obviously natural. Seen as a small magnetic anomaly only previously. Possible ferrous material.		ECR	-



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70490	Rope/chain	418882	5767468	A2	65.8	0.2	0.1	54	Long curvilinear object possibly rope/chain, measured as 65.8 m in total length even if not all attached. Previously seen as a magnetic anomaly only.		ECR	-
70507	Magnetic	421539	5766317	A2	-	-	-	26	Magnetic anomaly observed over three lines. Previously observed as 17 nT magnetic anomaly only. Possible buried ferrous material.	Low	Anchor area (KP27) / ECR	-
70509	Magnetic	420116	5767190	A2	-	-	-	64	Magnetic anomaly identified across several lines. Previously seen as a small magnetic anomaly only. Possible buried ferrous material.		ECR	-
70511	Magnetic	421138	5766723	A2	-	-	-	39	Magnetic anomaly identified on two lines. Previously identified as a small magnetic anomaly only. Possible buried ferrous material.	Low	ECR	-
70512	Magnetic	421282	5766846	A2	-	-	-	107	Magnetic anomaly identified on multiple lines. Previously seen as a small magnetic anomaly. There is no associated seabed anomaly. Possible buried ferrous debris.		Anchor area (KP27) / ECR	-
70514	Magnetic	421368	5766807	A2	-	-	-	44	Magnetic anomaly identified over three lines. Previously seen as a small magnetic anomaly. Possible buried ferrous material.	Low	Anchor area (KP27) / ECR	-
70516	Magnetic	421380	5766481	A2	-	-	-	130	Magnetic anomaly identified across several lines. Previously seen as a small magnetic anomaly only, could be buried ferrous debris.		ECR	-
70523	Magnetic	413142	5777918	A2	-	-	-	402	Magnetic anomaly identified over several lines. Identified previously as a magnetic anomaly of 56 nT. Possible buried ferrous material.		ECR	-



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70536	Magnetic	414263	5776279	A2	-	-	-	21	Magnetic anomaly identified on one line. Previously identified as 11 nT. Possible buried ferrous material.	Low	ECR	-
70539	Debris	414474	5775674	A1	8.6	8	0.4	71	Irregular area of dark reflectors measuring 3.6 x 1.9 x 0.4 m with a straight object measuring 2.3 x 0.4 x 0.1 m and a perpendicular object measuring 3.2 x 0.1 x 0.2 m. Magnetometer data indicates possible extensive buried material which surrounds the debris; measuring 44 x 21 m. Investigated by ROV to be wreck-related material for <i>Carica Milica</i> . Upgraded to A1 and a temporary AEZ is recommended around the extents of this anomaly.		ECR	-
70540	Magnetic	414959	5775164	A2	-	-	-	196	Magnetic anomaly identified on one line, close to anomalies 71235, and possibly related. Previously seen as a single small magnetic anomaly. Possible buried ferrous material.		ECR	-
70546	Magnetic	423853	5764171	A2	-	-	-	131	Magnetic anomaly observed on several lines. Previously identified as a single anomaly of 9 nT. Possible buried ferrous material.		ECR	-
70551	Magnetic	416195	5773427	A2	-	-	-	29	Magnetic anomaly observed on multiple lines. Previously identified as 6 nT. Possible buried ferrous material.	Low	ECR	-
70552	Magnetic	415237	5774482	A2	-	-	-	25	Magnetic anomaly identified on one line. Previously identified as an anomaly of 6 nT. Possible buried ferrous material.	Low	ECR	-



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70553	Magnetic	414581	5775609	A2	-	-	-	57	Magnetic anomaly identified over three lines. Previously identified as a small anomaly of 6 nT. Possible buried ferrous material.		ECR	-
70564	Magnetic	417306	5770522	A2	-	-	-	17	Magnetic anomaly identified, weakly observed on adjacent line. Previously identified as 482 nT. Possible buried ferrous material.	Low	ECR	-
70565	Debris	417126	5770684	A2	4.3	1.3	0.2	334	Bent linear object, bulbous at one end 0.5 m along the rest of the width. Varying height shadow. Previously seen as a small magnetic anomaly only. Possible ferrous debris.		ECR	-
70566	Debris	417308	5769593	A2	0.9	0.1	0.1	10	Small curved object with some height. Previously seen as a small magnetic anomaly only. A second object nearby, possibly related. Possible ferrous debris.	Low	ECR	-
71000	Magnetic	432441	5756227	A2	-	-	-	33	Magnetic anomaly, observed on two lines. Possible buried ferrous material.	Low	ECR	-
71001	Magnetic	432409	5756515	A2	-	-	-	32	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71002	Magnetic	432429	5756555	A2	-	-	-	22	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71003	Magnetic	432442	5756781	A2	-	-	-	54	Distinct anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71004	Debris	432158	5757071	A2	1.8	1.3	0.2	70	Irregular indistinct object with some scour and irregular bright shadow. In a disturbed area of seabed. Has an associated magnetic anomaly. Possible ferrous debris.		ECR	-
71005	Magnetic	432007	5757649	A2	-	-	-	25	Magnetic anomaly observed on one line, possible weaker anomalies nearby. Possible buried ferrous material.	Low	ECR	-



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71006	Magnetic	431894	5758029	A2	-	-	-	76	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71007	Magnetic	431903	5758083	A2	-	-	-	15	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71008	Magnetic	431940	5758171	A2	-	-	-	19	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71009	Dark reflector	431800	5758248	A2	3.5	0.4	0.2	-	Long thin object with varying height shadow. Possible non-ferrous material.		ECR	-
71010	Magnetic	431743	5758318	A2	-	-	-	74	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71011	Magnetic	431729	5758789	A2	-	-	-	29	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71012	Magnetic	431594	5758836	A2	-	-	-	17	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71013	Magnetic	431690	5758851	A2	-	-	-	53	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71014	Debris	431691	5758881	A2	1.5	0.6	0.6	199	Irregular object, within a slight seafloor disturbance, but looks anomalous to the surrounding seabed. Behind a small build-up of sediment. Seen as an area of disturbance within the echosounder data. Possible ferrous debris.		ECR	-
71015	Debris	431687	5758888	A2	1.7	2	0.2	199	Irregular object, possibly two close together, also possibly within a depression. Possible ferrous debris.		ECR	-
71016	Debris	431703	5758887	A2	1.1	0.5	0.4	124	Small straight object with long bright shadow.		ECR	-
71017	Magnetic	431704	5758904	A2	-	-	-	57	Anomaly identified on several lines, possibly related to anomalies 71015 and 71016. Possible buried ferrous material.		ECR	-
71018	Dark reflector	431525	5759437	A2	0.6	0.1	0.9	-	Small indistinct angular object, with a tall, bright shadow	Low	ECR	-
71019	Magnetic	431432	5759509	A2	-	-	-	263	Magnetic anomaly observed on multiple		ECR	-



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									lines. Possible buried ferrous material.			
71020	Magnetic	431437	5759529	A2	-	-	-	19	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71021	Magnetic	431436	5759568	A2	-	-	-	24	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71022	Debris	430614	5759795	A2	1.4	0.4	0.1	34	Small straight thin object with bright shadow. Could be two curved objects close together. Possible ferrous debris.	Low	ECR	-
71023	Dark reflector	430160	5759837	A2	0.8	0.3	0.3	-	Small straight reflector on an alignment with corresponding long bright shadow .	Low	ECR	-
71024	Magnetic	430140	5759889	A2	-	-	-	72	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71025	Dark reflector	429696	5759865	A2	1.2	0.4	0.4	-	Small angular object with corresponding bright shadow.	Low	ECR	-
71026	Magnetic	429657	5759892	A2	-	-	-	48	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71028	Magnetic	429204	5760070	A2	-	-	-	10	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71029	Magnetic	428893	5760220	A2	-	-	-	6	Clear, isolated anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71030	Magnetic	429019	5760311	A2	-	-	-	57	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71031	Dark reflector	428711	5760496	A2	2.6	0.2	0.1	-	Short curvilinear object with some slight shadow.	Low	ECR	-
71032	Magnetic	428582	5760783	A2	-	-	-	69	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71033	Magnetic	428592	5760854	A2	-	-	-	12	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71034	Seafloor disturbance	428403	5760972	A2	3	1.7	0	-	Irregular distinct area of small dark reflectors. Possibly rocks but very distinct and anomalous, possibly anthropogenic.		ECR	-



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71035	Magnetic	428427	5760978	A2	-	-	-	43	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71036	Magnetic	428379	5761037	A2	-	-	-	20	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71037	Magnetic	428258	5761018	A2	-	-	-	34	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71038	Magnetic	428287	5761116	A2	-	-	-	15	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71039	Magnetic	427860	5761307	A2	-	-	-	68	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71040	Dark reflector	428007	5761372	A2	1.3	0.3	0.1	-	Straight looking object with a round smooth object in scour. With an irregular bright shadow.	Low	ECR	-
71041	Magnetic	427747	5761406	A2	-	-	-	51	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71042	Magnetic	427479	5761614	A2	-	-	-	24	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71043	Dark reflector	427263	5761720	A2	3.6	0.6	0.2	-	Long dark reflector with a sediment build-up which is possibly an actual object. A small object with triangular object measuring 1.5 x 1 x 0.2m		ECR	-
71044	Magnetic	426948	5761911	A2	-	-	-	23	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71045	Magnetic	426911	5762053	A2	-	-	-	38	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71046	Magnetic	426818	5761982	A2	-	-	-	13	Magnetic anomaly observed on one line. Possible buried ferrous material.	Low	ECR	-
71047	Magnetic	426843	5762147	A2	-	-	-	37	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71048	Magnetic	426719	5762231	A2	-	-	-	136	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71049	Magnetic	426595	5762279	A2	-	-	-	25	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-



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71050	Magnetic	426404	5762443	A2	-	-	-	32	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71051	Magnetic	426097	5762537	A2	-	-	-	27	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71052	Dark reflector	425981	5762591	A2	1.4	0.2	0.1	-	Angular object with some scour and corresponding bright shadow.	Low	ECR	-
71053	Magnetic	425950	5762705	A2	-	-	-	11	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71054	Magnetic	425962	5762744	A2	-	-	-	13	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71055	Magnetic	425763	5762856	A2	-	-	-	18	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71056	Magnetic	425638	5762810	A2	-	-	-	9	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71057	Magnetic	425525	5762936	A2	-	-	-	30	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71058	Magnetic	425029	5763340	A2	-	-	-	14	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71059	Magnetic	424918	5763376	A2	-	-	-	32	Magnetic anomaly observed on multiple lines. Appears to be a linear feature extending 30 m to the south. Possible buried ferrous material.	Low	ECR	-
71060	Dark reflector	424836	5763368	A2	0.8	0.4	0.2	-	Distinct irregular object within an irregular bright shadow.	Low	ECR	-
71061	Magnetic	424710	5763399	A2	-	-	-	44	Magnetic anomaly observed on multiple lines. Possible buried ferrous material, but possible natural feature.	Low	ECR	-
71062	Debris	424686	5763465	A2	1.1	1.1	0.1	20	Outline of a rounded object with a smooth edge and some bright shadow. Magnetic anomaly observed over multiple lines. Possible ferrous debris.	Low	ECR	-
71063	Magnetic	424340	5763678	A2	-	-	-	17	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-



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71064	Magnetic	424024	5764007	A2	-	-	-	23	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71065	Magnetic	423835	5764108	A2	-	-	-	61	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71066	Magnetic	423513	5764439	A2	-	-	-	19	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71067	Magnetic	423435	5764388	A2	-	-	-	26	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71068	Magnetic	423079	5764656	A2	-	-	-	46	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71069	Magnetic	423000	5764687	A2	-	-	-	50	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71070	Magnetic	422957	5764716	A2	-	-	-	23	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71071	Magnetic	422765	5764951	A2	-	-	-	18	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71072	Magnetic	422262	5765126	A2	-	-	-	69	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71073	Magnetic	422312	5765217	A2	-	-	-	8	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71074	Magnetic	422277	5765249	A2	-	-	-	59	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71075	Dark reflector	422241	5765244	A2	5	0.2	0.1	-	Straight linear object with some shadow. Data stretched however and size may be exaggerated.		ECR	-
71076	Debris	422232	5765253	A2	5.6	0.4	0.1	28	Straight linear object with some bright shadow with a second perpendicular object (71077). Magnetic anomaly identified over several lines. Possible ferrous debris.		ECR	-
71077	Dark reflector	422231	5765254	A2	3	0.4	0.1	-	Straight linear object with some slight bright shadow perpendicular to 71076.		ECR	-



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71078	Magnetic	422285	5765298	A2	-	-	-	35	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71079	Magnetic	422160	5765307	A2	-	-	-	27	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71080	Magnetic	422202	5765419	A2	-	-	-	28	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71081	Magnetic	422195	5765433	A2	-	-	-	8	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71082	Magnetic	422136	5765520	A2	-	-	-	48	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71083	Magnetic	422018	5765534	A2	-	-	-	10	Magnetic anomaly identified on one line. Possible buried material, possible natural feature.	Low	ECR	-
71084	Magnetic	422066	5765563	A2	-	-	-	14	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71085	Magnetic	422159	5765604	A2	-	-	-	50	Magnetic anomaly observed on multiple lines in the infill data. Previously seen as a small magnetic anomaly. Possible buried ferrous material.		Anchor area (KP27) / ECR	-
71086	Magnetic	422123	5765641	A2	-	-	-	63	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		Anchor area (KP27) / ECR	-
71087	Seafloor disturbance	421968	5765738	A2	4.2	3.9	0.1	-	Small area of straight objects and some bright shadow.		ECR	-
71088	Debris	421902	5765957	A2	4.6	3.3	0.2	19	Irregular object, possibly several curvilinears with a central indistinct object with height of 0.2 m which may be build-up. Small magnetic anomaly identified over several lines indicating possible ferrous material.		ECR	-
71089	Magnetic	421793	5765964	A2	-	-	-	61	Magnetic anomaly identified on one line. Possible buried ferrous material.		ECR	-



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71090	Magnetic	421895	5766024	A2	-	-	-	17	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	Anchor area (KP27) / ECR	-
71091	Magnetic	421767	5765995	A2	-	-	-	39	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71092	Rope/chain	421692	5766150	A2	15.3	0.1	0.1	-	Interrupted linear object which is assumed associated. Probable rope/chain, but possible scar. Not observed in the most recent dataset but could now be buried.		Anchor area (KP27) / ECR	-
71093	Magnetic	421562	5766353	A2	-	-	-	23	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	Anchor area (KP27) / ECR	-
71094	Magnetic	421531	5766425	A2	-	-	-	27	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	Anchor area (KP27) / ECR	-
71095	Magnetic	421492	5766423	A2	-	-	-	19	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	Anchor area (KP27) / ECR	-
71096	Magnetic	421536	5766477	A2	-	-	-	15	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	Anchor area (KP27) / ECR	-
71097	Magnetic	421466	5766488	A2	-	-	-	10	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	Anchor area (KP27) / ECR	-
71098	Magnetic	421430	5766496	A2	-	-	-	30	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-



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71099	Magnetic	421466	5766580	A2	-	-	-	24	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71100	Magnetic	421390	5766577	A2	-	-	-	146	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71101	Magnetic	421407	5766601	A2	-	-	-	218	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71102	Magnetic	421421	5766663	A2	-	-	-	63	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		Anchor area (KP27) / ECR	-
71103	Magnetic	421353	5766697	A2	-	-	-	43	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	Anchor area (KP27) / ECR	-
71104	Rope/chain	421140	5766758	A2	7.6	0.8	0.1	175	Slightly curved linear object with some bright shadow identified within the infill data. An associated magnetic anomaly identified over multiple lines indicates presence of ferrous material.		ECR	-
71105	Rope/chain	421019	5766792	A2	5	0.3	0.1	12	Intermittent small straight linears with some varying height shadow. Small magnetic anomaly identified on multiple lines indicating possible ferrous debris. Possible partially buried chain.		ECR	-
71106	Magnetic	421029	5766932	A2	-	-	-	12	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	Anchor area (KP27) / ECR	-
71107	Debris	420930	5766869	A2	1.6	0.5	0.2	113	Angular dark reflector with some bright height shadow. Possible ferrous debris.		ECR	-
71108	Debris	420946	5766880	A2	2	0.6	0.4	108	Straight edge of an object, possibly build-up, and varying bright shadow. Possible ferrous debris.		ECR	-



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71109	Magnetic	420665	5766844	A2	-	-	-	23	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71110	Magnetic	419876	5767170	A2	-	-	-	97	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71111	Magnetic	419660	5767171	A2	-	-	-	28	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71112	Magnetic	419584	5767220	A2	-	-	-	78	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.		ECR	-
71113	Magnetic	419593	5767379	A2	-	-	-	48	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71114	Rope/chain	419263	5767285	A2	8.7	0.3	0.3	157	Slightly curved linear of varying height. Probable chain/cable.		ECR	-
71115	Magnetic	419027	5767420	A2	-	-	-	42	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71116	Debris	418995	5767441	A2	2.8	1.2	0.7	35	Tapered object. Possible ferrous debris.	Low	ECR	-
71117	Magnetic	418873	5767448	A2	-	-	-	34	Magnetic anomaly observed on multiple lines. Possible buried ferrous material.	Low	ECR	-
71118	Magnetic	418700	5767560	A2	-	-	-	22	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71119	Debris	418757	5767662	A2	2.7	0.9	0.1	59	Indistinct, could be a mound with an irregular height shadow. Could be natural but looks odd compared to surrounding seabed. Possible ferrous debris.		ECR	-
71120	Debris	418638	5767652	A2	11.5	2.3	0	8	Angular array of linear dark reflectors measuring 4.8 x 2.3 m with three longer linears extending to the south, 0.2 m in width. With curves visible and some varying height shadow. A small associated magnetic anomaly indicates presence of some ferrous material.		ECR	-



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71121	Debris	418655	5767772	A2	1.8	1	0.3	18	Irregular object which looks segmented with some flared bright shadow. Possible ferrous debris.	Low	ECR	-
71122	Debris	418536	5767772	A2	2.4	0.3	0.2	38	Stretched object in a depression with an associated small magnetic anomaly. Possible ferrous debris.	Low	ECR	-
71123	Magnetic	418683	5767830	A2	-	-	-	24	Anomaly identified on multiple lines, situated close to wreck 7232. Possible associated ferrous debris.	Low	ECR	-
71124	Magnetic	418679	5767866	A2	-	-	-	48	Anomaly identified on multiple lines, situated close to wreck 7232. Possible associated ferrous debris.	Low	ECR	-
71125	Magnetic	418563	5767925	A2	-	-	-	20	Magnetic anomaly identified over two lines. Possible buried ferrous material.	Low	ECR	-
71126	Magnetic	418596	5768009	A2	-	-	-	36	Anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71127	Magnetic	418571	5768006	A2	-	-	-	28	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71128	Magnetic	418539	5767988	A2	-	-	-	239	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71129	Magnetic	418498	5767967	A2	-	-	-	10	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71130	Magnetic	418536	5768030	A2	-	-	-	68	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71131	Magnetic	418573	5768068	A2	-	-	-	537	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71132	Magnetic	418524	5768079	A2	-	-	-	16	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71133	Debris	418455	5768007	A2	2.7	0.7	0.3	44	Irregular object which appears stretched in the data, with some bright shadow. Possible ferrous debris.	Low	ECR	-
71134	Magnetic	418429	5768056	A2	-	-	-	15	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
71135	Magnetic	418505	5768178	A2	-	-	-	17	Anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71136	Debris	418420	5768169	A2	2.1	0.8	0.1	18	Irregular are aof bright shadow. Could be a gouge in the seabed, but looks built-up rounded the edges and a small mound in the centre. Possible ferrous debris.	Low	ECR	-
71137	Rope/chain	418498	5768239	A2	8.4	0.1	0.1	21	Curvilinear object which may extend further though indistinct. Possible chain or cable due to associated magnetic value.		ECR	-
71138	Magnetic	418457	5768234	A2	-	-	-	41	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71139	Magnetic	418431	5768271	A2	-	-	-	35	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71140	Debris	418322	5768416	A2	1.3	1	0.1	17	Rounded object with depression in the centre. Possible ferrous debris.	Low	ECR	-
71141	Magnetic	418281	5768396	A2	-	-	-	135	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71142	Magnetic	418215	5768526	A2	-	-	-	38	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71143	Rope/chain	418234	5768587	A2	10.4	0.2	0.1	23	Curvilinear object with varying height shadow with a small object at one end, possibly a rock, that the linear may be snagged on. Associated with a small magnetic anomaly indicating object may be ferrous in origin.		ECR	-
71144	Magnetic	418156	5768599	A2	-	-	-	57	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71145	Magnetic	418170	5768695	A2	-	-	-	23	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
71146	Rope/chain	418099	5768689	A2	40	0.1	0.1	106	Curvilinear looks to be rope or chain as seems to curve in on itself, rather than a scar. Appears in a mass measuring 7.9 x 7.4 m with a tail measuring approximately 13 m trailing away from the mass. Possible chain/cable based on associated magnetic anomaly.		ECR	-
71147	Dark reflector	418005	5768927	A2	3	0.2	0.1	-	Straight object of varying width and height.		ECR	-
71148	Rope/chain	417902	5768923	A2	14.2	0.2	0.1	47	Curvilinear with bright shadow in part. Possible chain/cable due to associated magnetic value.		ECR	-
71149	Rope/chain	417905	5768959	A2	24.9	0.2	0.1	37	Curvilinear object, unsure if seen in entirety. With some varying height. Possible chain/cable due to associated magnetic value.		ECR	-
71150	Magnetic	417766	5768958	A2	-	-	-	68	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71151	Debris	417873	5769012	A2	3.6	1.6	0.2	23	Distinct area of straight dark reflectors crossed and some bright height shadow with some disturbance to one side. Seen as an irregular slight depression in the echosounder data. Possible ferrous debris.		ECR	-
71152	Magnetic	417784	5769076	A2	-	-	-	147	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71153	Magnetic	417736	5769093	A2	-	-	-	143	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71154	Magnetic	417771	5769120	A2	-	-	-	17	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71155	Magnetic	417698	5769107	A2	-	-	-	15	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71156	Magnetic	417785	5769208	A2	-	-	-	15	Magnetic anomaly identified on one line.	Low	ECR	-



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									Possible buried ferrous material.			
71157	Magnetic	417681	5769210	A2	-	-	-	48	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71158	Debris	417612	5769198	A2	1.7	0.8	0.5	9	Angular object within a scour and some irregular bright shadow. Possible ferrous debris.	Low	ECR	-
71159	Magnetic	417657	5769245	A2	-	-	-	18	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71160	Rope/chain	417533	5769257	A2	32.9	0.3	0.1	9	Seems to be two concentric curvilinear objects with some varying bright shadow. Seems to be an area of approximately 10 x 3 m. Associated with a very small magnetic anomaly.		ECR	-
71161	Magnetic	417624	5769356	A2	-	-	-	46	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71162	Magnetic	417438	5769364	A2	-	-	-	84	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71163	Magnetic	417444	5769386	A2	-	-	-	12	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71164	Debris	417545	5769424	A2	2.9	0.3	0.1	9	Two small curved objects next to each other. One appears larger than the other. 2.9 x 0.3 x 0.1 m. The smaller one is 2.7 x 0.2 x 0.1 m. Approximately 2 m apart. Possible ferrous debris.	Low	ECR	-
71165	Debris	417380	5769582	A2	1.2	0.9	0.3	-	Rounded object with some bright shadow. Possibly in a depression. Looks hollow. Could be debris or possibly a tyre.	Low	ECR	-
71166	Debris	417301	5769606	A2	2.8	2.1	0.2	10	Straight edge with a possible angular depression and an object in the centre with height extending out of trackplot. Possible ferrous debris.	Low	ECR	-



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71167	Dark reflector	417262	5769609	A2	4.3	0.2	0.1	-	Small linear at the edge of the trackplot with some height. May not have been observed in entirety.		ECR	-
71168	Magnetic	417388	5769663	A2	-	-	-	620	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71170	Magnetic	417261	5769865	A2	-	-	-	66	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71171	Debris	417252	5770014	A2	1	1	0.3	119	Small angular object within a depression measuring 5.7 x 4.8 m and a bright shadow. Observed in SSS and echosounder data. Associated magnetic anomaly identified in infill data indicates presence of ferrous material		ECR	-
71172	Magnetic	417253	5770130	A2	-	-	-	76	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71173	Debris	417153	5770177	A2	3.6	1.6	0.2	37	Straight linear object with a curved end with a width of 0.4 m. Possible anchor.		ECR	-
71174	Magnetic	417315	5770226	A2	-	-	-	11	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71175	Magnetic	417292	5770479	A2	-	-	-	13	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71176	Magnetic	417284	5770682	A2	-	-	-	9	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71177	Magnetic	417257	5770787	A2	-	-	-	124	Anomaly identified on multiple lines. Close to known cable crossing. Possible buried ferrous material.		ECR	-
71178	Magnetic	417259	5770809	A2	-	-	-	26	Anomaly identified on one line and weakly observed on adjacent line. Close to larger, cable crossing. Possible buried ferrous material.	Low	ECR	-
71179	Debris	417158	5770842	A2	1.2	1	0	46	Angular area of object with a dark straight edge and some bright shadow. Possible ferrous debris.	Low	ECR	-



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71180	Magnetic	417189	5771108	A2	-	-	-	11	Small anomaly identified, possibly weakly observed on adjacent line. Possible buried ferrous material.	Low	ECR	-
71181	Magnetic	417218	5771152	A2	-	-	-	13	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71182	Magnetic	417129	5771179	A2	-	-	-	11	Anomaly identified close 71183. Possible buried ferrous material.	Low	ECR	-
71183	Magnetic	417128	5771197	A2	-	-	-	44	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71184	Magnetic	417087	5771507	A2	-	-	-	16	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71185	Magnetic	417185	5771562	A2	-	-	-	17	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71186	Magnetic	417125	5771586	A2	-	-	-	40	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71187	Magnetic	417057	5771577	A2	-	-	-	23	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71188	Magnetic	417149	5771626	A2	-	-	-	103	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71189	Magnetic	417169	5771671	A2	-	-	-	111	Magnetic anomaly identified on one line, close to anomaly 71190. Possible buried ferrous material.		ECR	-
71190	Magnetic	417167	5771697	A2	-	-	-	19	Magnetic anomaly identified on one line, close to larger anomaly 71189. Possible buried ferrous material.	Low	ECR	-
71191	Rope/chain	417068	5771677	A2	9.2	0.2	0.1	-	Slightly curved linear object, with significant height. Could be natural.		ECR	-
71192	Magnetic	416983	5771689	A2	-	-	-	13	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71193	Magnetic	416994	5771837	A2	-	-	-	43	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-



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71194	Magnetic	417112	5771918	A2	-	-	-	15	Magnetic anomaly identified close to anomaly 71195. Possible buried ferrous material.	Low	ECR	-
71195	Rope/chain	417116	5771945	A2	10.4	0.5	0.1	54	Sharply curved linear object, could be rope or chain. Varying height shadow and looks varying in width. 71194 could be associated. Possible ferrous debris.		ECR	-
71196	Rope/chain	416954	5771908	A2	23.6	0.5	0.1	-	Long curvilinear dark reflector with slight shadow. Could be related to 71197.		ECR	-
71197	Rope/chain	417043	5771970	A2	145	0.5	0.1	-	Long irregular curvilinear dark reflector of varying observed width from 0.1 m to 0.5 m and some varying height shadow. No magnetic anomaly associated.		ECR	-
71198	Magnetic	416918	5772243	A2	-	-	-	39	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71199	Magnetic	416909	5772305	A2	-	-	-	20	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71200	Magnetic	416757	5772303	A2	-	-	-	13	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71201	Magnetic	416882	5772377	A2	-	-	-	31	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71202	Magnetic	416789	5772408	A2	-	-	-	60	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71203	Magnetic	416584	5772492	A2	-	-	-	28	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71204	Magnetic	416632	5772583	A2	-	-	-	18	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71205	Magnetic	416484	5772932	A2	-	-	-	32	Anomaly identified in multiple lines in area of other, small anomalies. Possible buried ferrous material.	Low	ECR	-
71206	Magnetic	416361	5772905	A2	-	-	-	47	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71207	Magnetic	416347	5773138	A2	-	-	-	15	Magnetic anomaly identified on multiple	Low	ECR	-



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									lines. Possible buried ferrous material.			
71208	Magnetic	416193	5773166	A2	-	-	-	46	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71209	Magnetic	416080	5773283	A2	-	-	-	10	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71210	Magnetic	416195	5773338	A2	-	-	-	32	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71211	Magnetic	416215	5773361	A2	-	-	-	22	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71212	Magnetic	416006	5773523	A2	-	-	-	192	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71213	Magnetic	415969	5773515	A2	-	-	-	9	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71214	Magnetic	415914	5773508	A2	-	-	-	13	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71215	Magnetic	415803	5773796	A2	-	-	-	16	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71216	Magnetic	415741	5773782	A2	-	-	-	23	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71218	Magnetic	415572	5774092	A2	-	-	-	73	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71219	Magnetic	415538	5774147	A2	-	-	-	73	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71220	Magnetic	415640	5774190	A2	-	-	-	29	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71221	Magnetic	415539	5774256	A2	-	-	-	31	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71222	Magnetic	415553	5774293	A2	-	-	-	85	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71223	Magnetic	415487	5774339	A2	-	-	-	31	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71224	Magnetic	415511	5774387	A2	-	-	-	33	Magnetic anomaly identified on one line.	Low	ECR	-



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									Possible buried ferrous material.			
71225	Magnetic	415282	5774599	A2	-	-	-	21	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71226	Magnetic	415295	5774662	A2	-	-	-	169	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71227	Magnetic	415190	5774781	A2	-	-	-	76	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71228	Magnetic	415134	5774910	A2	-	-	-	27	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71229	Magnetic	415062	5774905	A2	-	-	-	19	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71230	Magnetic	415005	5774981	A2	-	-	-	58	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71231	Magnetic	414958	5775061	A2	-	-	-	23	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71232	Magnetic	414828	5775073	A2	-	-	-	15	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71233	Magnetic	414966	5775116	A2	-	-	-	17	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71234	Magnetic	414808	5775094	A2	-	-	-	17	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71235	Magnetic	414986	5775153	A2	-	-	-	89	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71236	Magnetic	414844	5775144	A2	-	-	-	25	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71237	Magnetic	414794	5775130	A2	-	-	-	230	Magnetic anomaly identified on one line. Possible buried ferrous material.		ECR	-
71238	Magnetic	414809	5775149	A2	-	-	-	55	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71239	Magnetic	414891	5775244	A2	-	-	-	15	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71240	Magnetic	414826	5775224	A2	-	-	-	44	Magnetic anomaly identified on one line.	Low	ECR	-



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									Possible buried ferrous material.			
71241	Magnetic	414828	5775258	A2	-	-	-	94	Magnetic anomaly identified on one line. Possible buried ferrous material.		ECR	-
71242	Magnetic	414867	5775278	A2	-	-	-	18	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71243	Rope/chain	414775	5775272	A2	16	0.2	0.1	46	Curvilinear object that extends out of the trackplot so not seen in entirety in either line. Possible cable/chain due to associated magnetic value.		ECR	-
71244	Magnetic	414803	5775308	A2	-	-	-	16	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71245	Seafloor disturbance	414705	5775364	A2	4.7	3.1	0	-	Angular area of straight crossed, bright reflectors. N associated magnetic value		ECR	-
71246	Magnetic	414647	5775426	A2	-	-	-	32	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71247	Magnetic	414537	5775547	A2	-	-	-	41	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71248	Magnetic	414482	5775595	A2	-	-	-	33	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71249	Magnetic	414634	5775657	A2	-	-	-	50	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71250	Magnetic	414545	5775659	A2	-	-	-	30	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71251	Magnetic	414505	5775655	A2	-	-	-	57	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71252	Magnetic	414467	5775640	A2	-	-	-	54	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71253	Magnetic	414537	5775695	A2	-	-	-	167	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71254	Magnetic	414515	5775687	A2	-	-	-	15	Magnetic anomaly identified on one line. Possible buried ferrous material. Close to anomaly 71253.	Low	ECR	-



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71255	Debris	414591	5775732	A2	1	0.9	0.2	12	Irregular object with an irregular shadow. Possible ferrous debris.	Low	ECR	-
71256	Seafloor disturbance	414478	5775704	A2	7.3	3.6	0	-	Angular area of conjoined bright reflector. No discernible dark reflector causing shadow.		ECR	-
71257	Magnetic	414548	5775741	A2	-	-	-	30	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71258	Magnetic	414525	5775753	A2	-	-	-	32	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71259	Magnetic	414300	5775822	A2	-	-	-	21	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71260	Dark reflector	414318	5775968	A2	3.5	0.9	0.2	-	Irregular object with a tapering straight edge and two straight edges at the thicker end. Each linear is 0.2 m in width.		ECR	-
71261	Debris	414345	5776060	A2	1.5	0.3	0.1	25	Small dark straight object with some height shadow. Possible ferrous debris.	Low	ECR	-
71262	Dark reflector	414142	5776158	A2	0.8	0.9	0.2	-	Rounded outline of dark reflector with a depression in the centre and some bright height shadow.	Low	ECR	-
71263	Magnetic	414110	5776219	A2	-	-	-	39	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71264	Magnetic	414159	5776311	A2	-	-	-	17	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71265	Magnetic	414057	5776274	A2	-	-	-	62	Anomaly identified on multiple lines. Possible buried ferrous material. Possible buried ferrous material.		ECR	-
71266	Magnetic	413999	5776251	A2	-	-	-	16	Anomaly identified on multiple lines. Possible buried ferrous material. Possible buried ferrous material.	Low	ECR	-
71267	Magnetic	414057	5776349	A2	-	-	-	9	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71268	Magnetic	414083	5776398	A2	-	-	-	26	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
71269	Magnetic	413997	5776429	A2	-	-	-	17	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71270	Magnetic	414082	5776461	A2	-	-	-	56	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71271	Magnetic	413873	5776487	A2	-	-	-	159	Magnetic anomaly identified on one line. Possible buried ferrous material.		ECR	-
71272	Magnetic	413890	5776539	A2	-	-	-	30	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71273	Magnetic	413914	5776639	A2	-	-	-	38	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71274	Magnetic	413916	5776690	A2	-	-	-	16	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71275	Magnetic	413680	5776716	A2	-	-	-	15	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71276	Magnetic	413454	5777285	A2	-	-	-	18	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71277	Magnetic	413443	5777313	A2	-	-	-	53	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71278	Magnetic	413077	5777737	A1	-	-	-	1239	Large magnetic only anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71279	Magnetic	412963	5777897	A2	-	-	-	32	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71280	Magnetic	413009	5777923	A2	-	-	-	11	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71281	Magnetic	413036	5777950	A2	-	-	-	51	Magnetic anomaly identified on one line. Possible buried ferrous material.		ECR	-
71282	Magnetic	412980	5778042	A2	-	-	-	33	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71283	Magnetic	412866	5778058	A2	-	-	-	452	Anomaly identified on several lines in an area of a larger, possibly geological feature. Possible buried ferrous material.		ECR	-



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71284	Magnetic	412824	5778101	A2	-	-	-	68	Anomaly identified over three lines in an area of a larger, possibly geological feature. Possible buried ferrous material.		ECR	-
71285	Magnetic	412881	5778174	A2	-	-	-	516	Anomaly identified on several lines in an area of a larger, possibly geological feature Possible buried ferrous material.		ECR	-
71286	Magnetic	412690	5778281	A2	-	-	-	64	Anomaly identified on one line and observed on adjacent line in an area of a larger, possibly geological feature. Possible buried ferrous material.		ECR	-
71287	Magnetic	412613	5778558	A2	-	-	-	124	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71288	Magnetic	412550	5778598	A2	-	-	-	23	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71289	Magnetic	412607	5778642	A2	-	-	-	166	Anomaly identified on several lines in an area of a larger, possibly geological feature. Possible buried ferrous material.		ECR	-
71290	Magnetic	412595	5778671	A2	-	-	-	69	Anomaly identified over two lines in an area of a larger, possibly geological feature. Possible buried ferrous material.		ECR	-
71291	Dark reflector	412474	5778766	A2	2.4	0.2	0.1	-	Small straight object with some irregular shadow.	Low	ECR	-
71292	Magnetic	412462	5778960	A2	-	-	-	50	Anomaly identified over several lines in an area of a larger, possibly geological feature. Possible buried ferrous material.		ECR	-
71293	Magnetic	412491	5779112	A2	-	-	-	30	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71294	Magnetic	412466	5779160	A2	-	-	-	103	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71295	Magnetic	412479	5779196	A2	-	-	-	28	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71296	Magnetic	412375	5779326	A2	-	-	-	25	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-



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71297	Magnetic	412302	5779312	A2	-	-	-	64	Magnetic anomaly identified on one line. Possible buried ferrous material.		ECR	-
71298	Magnetic	412212	5779418	A2	-	-	-	16	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71299	Debris	412277	5779525	A1	6	4.1	0.5	339	Sub-angular area of bright shadow encased by dark reflector. No discernible structure to disturbance. Large magnetic anomaly indicating possible ferrous debris.		ECR	-
71300	Magnetic	412217	5779589	A2	-	-	-	147	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71301	Magnetic	412095	5779725	A2	-	-	-	21	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71302	Magnetic	412201	5779830	A2	-	-	-	77	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71303	Magnetic	412209	5779927	A2	-	-	-	167	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71304	Magnetic	412114	5779988	A2	-	-	-	775	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71305	Magnetic	412032	5779999	A1	-	-	-	1337	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71306	Magnetic	412145	5780078	A2	-	-	-	9	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71307	Magnetic	412011	5780225	A2	-	-	-	150	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71308	Debris	411953	5780227	A2	3.3	1.2	0.2	51	Straight edged object with distinct rounded end. Angular bright shadow. Could be seafloor disturbance. Possible presence of ferrous material.		ECR	-
71309	Magnetic	411915	5780296	A2	-	-	-	36	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71310	Magnetic	412023	5780414	A2	-	-	-	12	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-



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71311	Magnetic	411794	5780473	A2	-	-	-	44	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71312	Magnetic	411875	5780509	A2	-	-	-	64	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71313	Magnetic	411769	5780713	A2	-	-	-	53	Magnetic anomaly identified on one line. Possible buried ferrous material.		ECR	-
71314	Magnetic	411717	5780969	A2	-	-	-	83	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71315	Magnetic	411690	5780992	A2	-	-	-	33	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71316	Magnetic	411593	5781211	A2	-	-	-	41	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71317	Magnetic	411470	5781512	A2	-	-	-	48	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71318	Magnetic	411331	5781792	A2	-	-	-	18	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71319	Seafloor disturbance	410992	5782750	A2	11.1	7.8	0.1	-	Distinct group of irregular objects, rounded and straight objects with some bright shadow.		ECR	-
71320	Seafloor disturbance	410974	5782888	A2	6.7	2.6	0	-	Irregular area of dark reflectors and some bright shadow. Distinct but could be natural.		ECR	-
71321	Magnetic	410672	5783548	A2	-	-	-	59	Magnetic anomaly identified on one line. Possible buried ferrous material.		ECR	-
71322	Mound	410304	5784282	A2	3.3	2.3	1	-	Small mound, possibly indicating partially buried material. Identified in echosounder data only		ECR	-
71325	Magnetic	409174	5784903	A2	-	-	-	110	Anomaly identified on one line and observed on adjacent lines, possibly associated with anomaly 71326. Possible buried ferrous material.		ECR	-



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71326	Magnetic	409175	5784973	A2	-	-	-	226	Anomaly identified on one line and observed on adjacent lines, possibly associated with anomaly 71325. Possible buried ferrous material.		ECR	-
71327	Magnetic	408889	5784910	A2	-	-	-	42	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71328	Magnetic	408805	5785128	A2	-	-	-	867	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71329	Magnetic	408699	5785049	A2	-	-	-	50	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71330	Magnetic	408727	5785110	A2	-	-	-	185	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71331	Magnetic	408730	5785128	A2	-	-	-	74	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71332	Magnetic	408699	5785126	A2	-	-	-	202	Magnetic anomaly identified on one line. Possible buried ferrous material.		ECR	-
71333	Magnetic	408716	5785147	A2	-	-	-	726	Magnetic anomaly identified on one line. Possible buried ferrous material.		ECR	-
71334	Seafloor disturbance	408630	5785029	A2	15.2	2.4	0.7	-	Elongated thin area of dark reflectors with varying bright shadow. Seems to be all one feature. Possibly natural. Observed in the echosounder data.		ECR	-
71335	Magnetic	408590	5785054	A2	-	-	-	42	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71336	Dark reflector	408623	5785121	A2	4.7	2.3	1.3	-	Oval object with some bright shadow visible. Seems detached from the sandwave formation.		ECR	-
71337	Seafloor disturbance	408608	5785147	A1	24.4	3.8	0.6	1102	Irregular but distinct linear area of dark reflectors with bright shadow. Seen on the echosounder data, possibly natural but high magnetic response in the area indicates probable ferrous material.		ECR	-



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71338	Mound	408526	5785038	A2	9.7	2.1	0.2	-	Three small, irregular, linear mounds in an area of smooth seabed. Seen in the echosounder data only.		ECR	-
71339	Magnetic	408477	5785149	A2	-	-	-	75	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71340	Magnetic	408294	5785228	A2	-	-	-	39	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71341	Magnetic	408181	5785200	A2	-	-	-	9	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71342	Magnetic	408006	5785189	A2	-	-	-	104	Magnetic anomaly identified on one line. Possible buried ferrous material.		ECR	-
71343	Magnetic	407605	5785348	A2	-	-	-	36	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71344	Magnetic	407610	5785367	A2	-	-	-	15	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71345	Magnetic	407136	5785279	A2	-	-	-	75	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71346	Rope/chain	407112	5785110	A2	18	0.3	0.1	-	Faint curvilinear dark reflector with a slight height shadow.		ECR	-
71347	Magnetic	406963	5785016	A2	-	-	-	41	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	Inshore anchor area / ECR	-
71348	Magnetic	406870	5785167	A2	-	-	-	17	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71349	Magnetic	406875	5785149	A2	-	-	-	17	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71350	Magnetic	406830	5784989	A2	-	-	-	40	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	Inshore anchor area / ECR	-
71351	Magnetic	406732	5785139	A2	-	-	-	40	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-



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71352	Magnetic	406721	5785077	A2	-	-	-	54	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71353	Magnetic	406711	5785010	A2	-	-	-	175	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71354	Magnetic	406714	5784967	A2	-	-	-	46	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	Inshore anchor area / ECR	-
71355	Magnetic	406504	5785024	A2	-	-	-	22	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71356	Magnetic	406484	5785016	A2	-	-	-	51	Anomaly identified on one line in area of other smaller anomalies. Possible buried ferrous material. Possible geology.		ECR	-
71357	Magnetic	406379	5784987	A2	-	-	-	135	Magnetic anomaly identified on one line. Possible buried ferrous material.		ECR	-
71358	Magnetic	406345	5784981	A2	-	-	-	36	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71359	Magnetic	406351	5784858	A2	-	-	-	98	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		Inshore anchor area / ECR	-
71360	Magnetic	406325	5784867	A2	-	-	-	30	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	Inshore anchor area / ECR	-
71361	Magnetic	406303	5784870	A2	-	-	-	28	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	Inshore anchor area / ECR	-
71362	Magnetic	406301	5784886	A2	-	-	-	45	Anomaly identified on multiple lines in area of other small anomalies. Possible buried ferrous material.	Low	Inshore anchor area / ECR	-



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71363	Magnetic	406225	5784845	A2	-	-	-	187	Magnetic anomaly identified on one line. Possible buried ferrous material.		Inshore anchor area / ECR	-
71364	Magnetic	411268	5782025	A2	-	-	-	68	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71365	Magnetic	410135	5784602	A2	-	-	-	46	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71366	Magnetic	410180	5784580	A2	-	-	-	177	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71367	Magnetic	410240	5784506	A2	-	-	-	24	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71368	Magnetic	410507	5784158	A2	-	-	-	10	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71369	Magnetic	410679	5783835	A2	-	-	-	9	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71370	Magnetic	411248	5781984	A2	-	-	-	12	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71371	Magnetic	411448	5781495	A2	-	-	-	9	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71372	Magnetic	411433	5781441	A2	-	-	-	21	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71373	Magnetic	411509	5781346	A2	-	-	-	13	Magnetic anomaly identified on multiple lines. Position changed after interpretation of infill data. Possible buried ferrous material.	Low	ECR	-
71374	Magnetic	411595	5781257	A2	-	-	-	10	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71375	Magnetic	432435	5755876	A2	-	-	-	26	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71376	Magnetic	432525	5756101	A2	-	-	-	67	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-



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71380	Debris	431731	5759113	A2	2.2	0.1	0.2	139	Straight edge of a thin object with corresponding bright shadow. Shadow irregular at one end. Associated magnetic value indicates possible ferrous debris.		ECR	-
71381	Debris	430314	5759712	A2	1.6	1.1	0.1	132	Indistinct object object, possibly curved, with a curved bright shadow. With the shorter end as 0.3 m. Associated magnetic value indicates possible ferrous debris.		ECR	-
71382	Magnetic	430111	5759734	A2	-	-	-	15	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71383	Magnetic	429268	5759817	A2	-	-	-	12	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71386	Magnetic	428591	5760984	A2	-	-	-	8	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71387	Magnetic	422340	5765338	A2	-	-	-	44	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71388	Magnetic	421731	5766442	A2	-	-	-	15	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	Anchor area (KP27) / ECR	-
71389	Magnetic	421498	5766350	A2	-	-	-	34	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	Anchor area (KP27) / ECR	-
71390	Magnetic	421345	5766499	A2	-	-	-	11	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71392	Magnetic	421157	5766916	A2	-	-	-	314	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		Anchor area (KP27) / ECR	-



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71393	Magnetic	421050	5766951	A2	-	-	-	13	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	Anchor area (KP27) / ECR	-
71394	Debris	420918	5766723	A2	2.4	0.6	0.2	160	Straight thin object, possibly angular, with a slight height shadow at one end. Large associated magnetic anomaly identified over a few lines indicates possible ferrous debris.		ECR	-
71397	Magnetic	420222	5767160	A2	-	-	-	33	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71398	Magnetic	420166	5767199	A2	-	-	-	14	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71399	Magnetic	419087	5767304	A2	-	-	-	23	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71400	Magnetic	418501	5767736	A2	-	-	-	10	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71401	Debris	418699	5767920	A2	1	0.3	0.4	-	Indistinct but irregular bright height shadow. Tagged due to proximity to wreck 7232 and therefore could be possible debris. Covered by large magnetic anomaly so any individual anomaly would be masked.	Low	ECR	-
71402	Debris	418677	5767954	A2	2.7	1.1	0.3	-	Angular object with some structure visible with irregular height shadow. Assumed debris from wreck 7232. Covered by large magnetic anomaly so any individual anomaly would be masked.	Low	ECR	-
71403	Dark reflector	418666	5767972	A2	0.7	0.3	0.3	-	Indistinct object, with some bright shadow. Tagged due to proximity to wreck 7232. Covered by large magnetic anomaly so any individual anomaly	Low	ECR	-



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									would be masked. Classified as dark reflector due to small size.			
71404	Debris	418691	5767963	A2	1.8	0.8	0.3	-	Indistinct object with irregular bright shadow that could be debris associated with wreck 7232. Covered by large magnetic anomaly so any individual anomaly would be masked.	Low	ECR	-
71405	Debris	418693	5767961	A2	1.6	1	0.1	-	Irregular patch of bright reflector, possible depression or height shadow with some objects within, one straight and some small and angular. Assumed debris associated with wreck 7232. Covered by large magnetic anomaly so any individual anomaly would be masked.	Low	ECR	-
71406	Magnetic	418631	5768001	A2	-	-	-	47	Anomaly identified within area of larger anomaly. Possible buried ferrous material.	Low	ECR	-
71408	Magnetic	418377	5767997	A2	-	-	-	17	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71409	Magnetic	418334	5768051	A2	-	-	-	14	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71414	Debris	417679	5769023	A2	3.4	0.8	0.4	72	Odd disturbance, angular seeming object with a straight edge and some scour with some corresponding shadow. Associated magnetic value indicates possible ferrous debris.		ECR	-
71415	Magnetic	417819	5769205	A2	-	-	-	27	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71416	Magnetic	417526	5769563	A2	-	-	-	48	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-



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71417	Magnetic	417457	5769652	A2	-	-	-	9	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71418	Magnetic	417174	5769868	A2	-	-	-	24	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71419	Magnetic	417117	5770305	A2	-	-	-	62	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71420	Magnetic	417095	5770428	A2	-	-	-	387	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71422	Magnetic	417002	5771230	A2	-	-	-	12	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71423	Magnetic	416973	5771607	A2	-	-	-	29	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71424	Magnetic	417210	5771705	A2	-	-	-	148	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71425	Magnetic	417182	5771838	A2	-	-	-	12	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71426	Magnetic	417137	5772065	A2	-	-	-	54	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71427	Magnetic	417009	5772215	A2	-	-	-	99	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71428	Magnetic	416778	5772568	A2	-	-	-	151	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71429	Magnetic	416739	5772636	A2	-	-	-	18	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71432	Magnetic	415962	5773841	A2	-	-	-	112	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71433	Magnetic	415499	5774371	A2	-	-	-	41	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71435	Magnetic	415353	5774660	A2	-	-	-	47	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71436	Magnetic	415337	5774731	A2	-	-	-	18	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
71437	Magnetic	415276	5774811	A2	-	-	-	31	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71438	Debris	414882	5774937	A2	4.6	3.6	0.2	-	Distinct sub rounded area of bright reflector in an otherwise clear seabed. A curved mound with some bright shadow also visible. No associated magnetic value indicates non-ferrous material.		ECR	-
71439	Magnetic	414817	5775042	A2	-	-	-	29	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71440	Magnetic	414654	5775275	A2	-	-	-	14	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71441	Magnetic	414573	5775778	A2	-	-	-	215	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71442	Magnetic	414408	5776054	A2	-	-	-	43	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71443	Magnetic	414096	5776078	A2	-	-	-	50	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71444	Magnetic	414139	5776412	A1	-	-	-	1095	Large magnetic anomaly identified over two lines within an area of high magnetic response. Possible buried ferrous material.		ECR	-
71445	Magnetic	414093	5776497	A2	-	-	-	12	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71446	Magnetic	413848	5776438	A2	-	-	-	118	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71447	Magnetic	413624	5777133	A2	-	-	-	11	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71448	Magnetic	413277	5777277	A2	-	-	-	12	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71449	Magnetic	413475	5777402	A2	-	-	-	142	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
71450	Magnetic	413192	5777428	A2	-	-	-	72	Possible anomaly identified on one line in area of larger, possibly geological anomaly. Possible buried ferrous material.		ECR	-
71451	Magnetic	412718	5778150	A2	-	-	-	18	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71453	Dark reflector	412497	5778637	A2	1.3	0.8	0.2	-	Angular object with some slight bright shadow. Also seen as a small object measuring 0.7 x 0.5 x 0.2 m in a depression.	Low	ECR	-
71455	Magnetic	412307	5779707	A2	-	-	-	24	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71456	Seafloor disturbance	411263	5781797	A2	5.5	3.1	0	-	Very distinct sub circular area of dark and bright reflectors. Could be a small sandwave formation however looks out of place.		ECR	-
71457	Dark reflector	410253	5784347	A2	11.1	4.7	-0.4	-	Angular object with corresponding angular shadow. some scour to one side . Seems to be crossed linear reflectors. Measured as 2 x 1.1 x 0.2 m within a depression.		ECR	-
71458	Magnetic	409039	5785080	A2	-	-	-	382	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71459	Magnetic	409008	5785083	A2	-	-	-	110	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71460	Dark reflector	408730	5784917	A2	9.5	3	0.5	-	Angular object, looks like it is interrupting the sandwave formation. Could be natural but looks anomalous.		ECR	-
71461	Magnetic	406878	5785193	A2	-	-	-	15	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
71462	Dark reflector	406855	5784942	A2	1.9	0.4	0.1	-	Data severely stretched. Object with some bright height shadow. One of two close together in an otherwise clear looking seabed. Other object outside ECR corridor. Not observed within inshore anchor area dataset.	Low	Inshore anchor area / ECR	-
71463	Magnetic	406279	5784982	A2	-	-	-	33	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71464	Mound	406098	5785035	A2	4.5	4	0.2	-	Slightly double pointed mound identified in the echosounder data only.		ECR	-
71465	Magnetic	409945	5784896	A2	-	-	-	51	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71467	Magnetic	410111	5784539	A2	-	-	-	97	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71468	Magnetic	410140	5784507	A2	-	-	-	14	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71469	Magnetic	410511	5784398	A2	-	-	-	13	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71470	Magnetic	410487	5784367	A2	-	-	-	11	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71471	Magnetic	410289	5784292	A2	-	-	-	39	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71472	Magnetic	410627	5783419	A2	-	-	-	58	Anomaly identified on one line in an area of possible geology. Possible buried ferrous material.		ECR	-
71473	Magnetic	411989	5779920	A2	-	-	-	51	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71474	Magnetic	411946	5780021	A2	-	-	-	45	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71475	Magnetic	414780	5775064	A2	-	-	-	22	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71476	Magnetic	414862	5774944	A2	-	-	-	32	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
71477	Magnetic	415054	5774668	A2	-	-	-	28	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71478	Magnetic	415923	5773403	A2	-	-	-	24	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71479	Magnetic	416272	5772886	A2	-	-	-	145	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71480	Magnetic	416435	5772657	A2	-	-	-	25	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71481	Magnetic	416656	5772316	A2	-	-	-	94	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71482	Magnetic	417389	5769346	A2	-	-	-	8	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71483	Magnetic	424092	5763792	A2	-	-	-	56	Magnetic anomaly identified on one line. Possible buried ferrous material.		ECR	-
71484	Magnetic	426610	5762058	A2	-	-	-	17	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71485	Magnetic	427380	5761530	A1	-	-	-	1007	Large anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71486	Magnetic	427825	5761239	A2	-	-	-	7	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-
71487	Magnetic	428276	5760911	A2	-	-	-	169	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71488	Dark reflector	428599	5760546	A2	1	1	0.2	-	Sub-angular object with a slight bright shadow. No associated magnetic value indicates non-ferrous material.	Low	ECR	-
71491	Dark reflector	418483	5767719	A2	1.4	0.4	0.2	-	Tapered angular object with some large angular bright shadow. No associated magnetic value indicates non-ferrous material.	Low	ECR	-
71492	Magnetic	431732	5758608	A2	-	-	-	31	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71493	Magnetic	431765	5758615	A2	-	-	-	25	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
71494	Magnetic	428816	5760389	A2	-	-	-	10	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71495	Magnetic	428817	5760423	A2	-	-	-	15	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71496	Magnetic	428753	5760569	A2	-	-	-	24	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71497	Magnetic	428603	5760672	A2	-	-	-	8	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71498	Magnetic	427449	5761558	A2	-	-	-	17	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71499	Magnetic	424090	5763990	A2	-	-	-	27	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71500	Magnetic	422159	5765232	A2	-	-	-	25	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71501	Magnetic	420930	5766824	A2	-	-	-	65	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71502	Magnetic	420627	5766972	A2	-	-	-	140	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71503	Magnetic	418661	5767698	A2	-	-	-	49	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71504	Magnetic	418656	5767877	A2	-	-	-	40	Magnetic anomaly identified on multiple lines. Possible buried ferrous material. On the edge of a much larger anomaly	Low	ECR	-
71505	Magnetic	418619	5767971	A2	-	-	-	22	Magnetic anomaly identified on the edge of a broader anomaly. Possible buried ferrous material.	Low	ECR	-
71506	Magnetic	417857	5768929	A2	-	-	-	19	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71507	Magnetic	417110	5770886	A2	-	-	-	33	Magnetic anomaly identified on multiple lines on the edge of a cable route. Possible buried ferrous material.	Low	ECR	-
71545	Magnetic	432438	5756206	A2	-	-	-	16	Magnetic anomaly identified on one line. Possible buried ferrous material.	Low	ECR	-



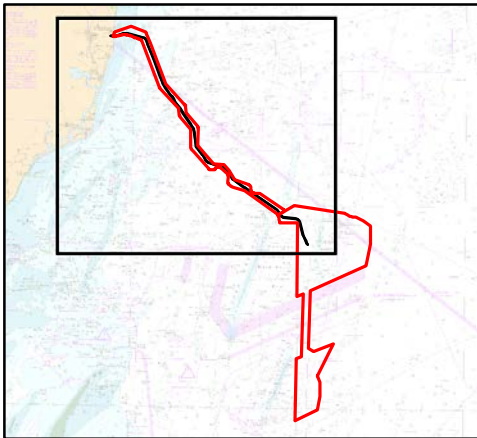
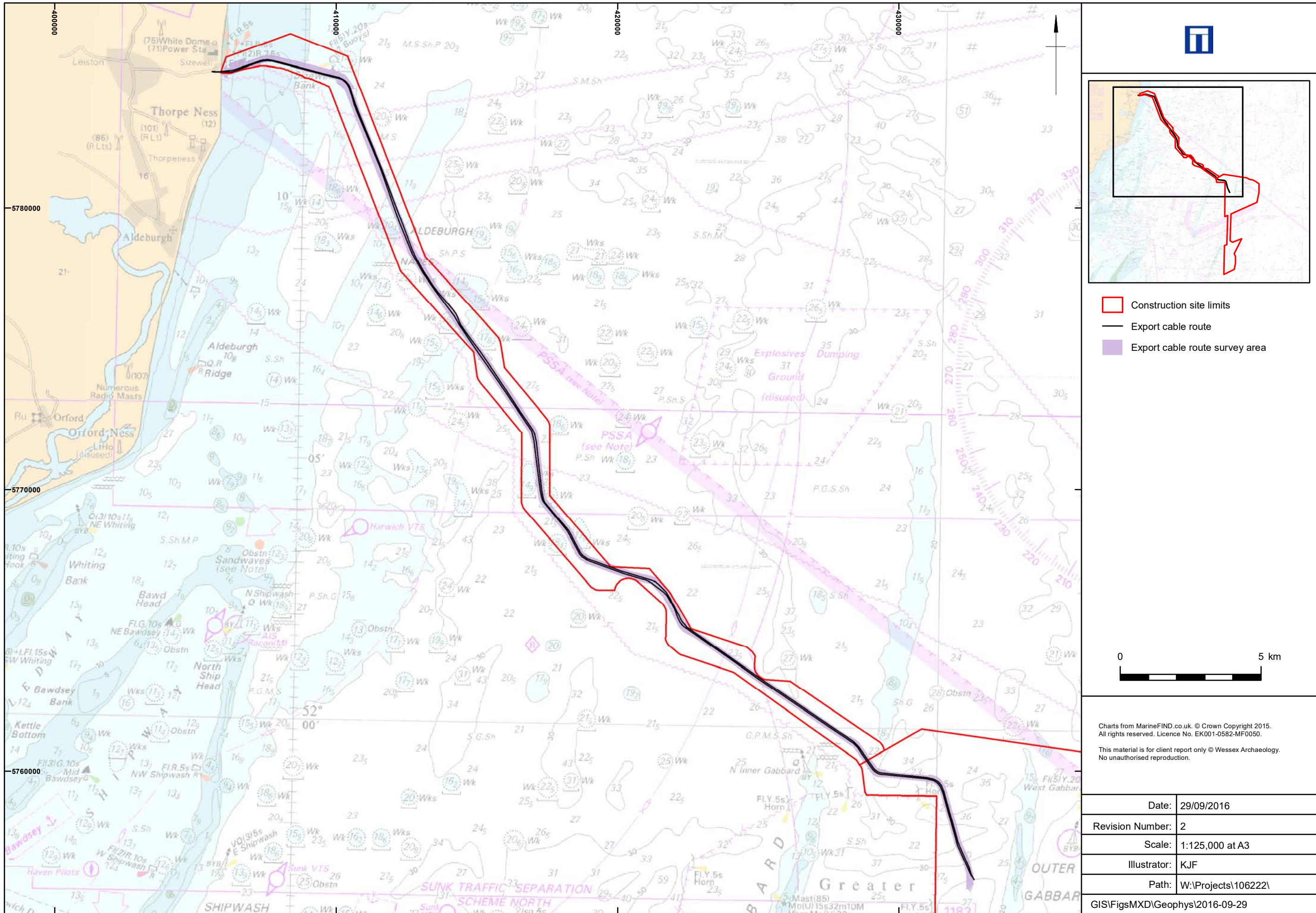
WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
71546	Magnetic	432417	5756222	A2	-	-	-	27	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71547	Magnetic	428553	5761028	A2	-	-	-	17	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71548	Magnetic	427393	5761576	A2	-	-	-	119	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71549	Magnetic	426573	5762167	A2	-	-	-	23	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71550	Magnetic	426475	5762164	A2	-	-	-	33	Sharp dipole observed one line on the edge of data and not on adjacent line.	Low	ECR	-
71551	Magnetic	424601	5763451	A2	-	-	-	68	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.		ECR	-
71552	Magnetic	423231	5764611	A2	-	-	-	33	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71553	Magnetic	422342	5765287	A2	-	-	-	40	Magnetic anomaly identified on multiple lines. Previously thought to be part of 70264 however infill data makes the this anomaly appear separate. Possible buried ferrous debris	Low	ECR	-
71554	Magnetic	421842	5765945	A2	-	-	-	25	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71555	Magnetic	421922	5766109	A2	-	-	-	17	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71556	Magnetic	421746	5766093	A2	-	-	-	37	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71557	Magnetic	421719	5766160	A2	-	-	-	12	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71558	Magnetic	417170	5770468	A2	-	-	-	39	Magnetic anomaly identified on multiple lines. Possible buried ferrous material.	Low	ECR	-
71559	Magnetic	417215	5771513	A2	-	-	-	69	Sharp dipole recorded across two lines and observed over multiple lines		ECR	-
71560	Magnetic	417208	5771592	A2	-	-	-	13	Small sharp dipole observed over multiple lines	Low	ECR	-



WA ID	Classification	Easting	Northing	Archaeological Discrimination	Length (m)	Width (m)	Height (m)	Magnetic Amplitude (nT)	Description	Anomaly of Low Archaeological Potential < 50 nT or <3 m in size	Area	External References
71561	Magnetic	416856	5772053	A2	-	-	-	229	Large sharp dipole recorded over two lines and observed on multiple adjacent lines in a relatively quiet area of seabed.		ECR	-
71562	Magnetic	415956	5773460	A2	-	-	-	11	Sharp positive monopole observed over multiple lines	Low	ECR	-
71563	Magnetic	415854	5773615	A2	-	-	-	50	Medium sharp dipole observed over multiple lines with a smaller anomaly 14 m to the south-east.		ECR	-
71564	Magnetic	415800	5773719	A2	-	-	-	26	Sharp dipole observed over multiple lines	Low	ECR	-
71565	Magnetic	415201	5774866	A2	-	-	-	21	Sharp dipole observed over two lines	Low	ECR	-
71566	Magnetic	411640	5780978	A2	-	-	-	19	Sharp dipole observed on adjacent lines	Low	ECR	-
71567	Magnetic	411721	5781198	A2	-	-	-	10	Sharp dipole observed on adjacent lines	Low	ECR	-
73000	Dark reflector	406041	5784916	A2	3.1	0.1	0	-	Short, linear dark reflector with no discernible height. Possible item of debris associated with wreck 7346. Anomaly only observed in most recent inshore dataset		Nearshore	-

Notes:

1. Co-ordinates are in WGS84 UTM31N
2. Positional accuracy estimated ± 10 m



- Construction site limits
- Export cable route
- Export cable route survey area

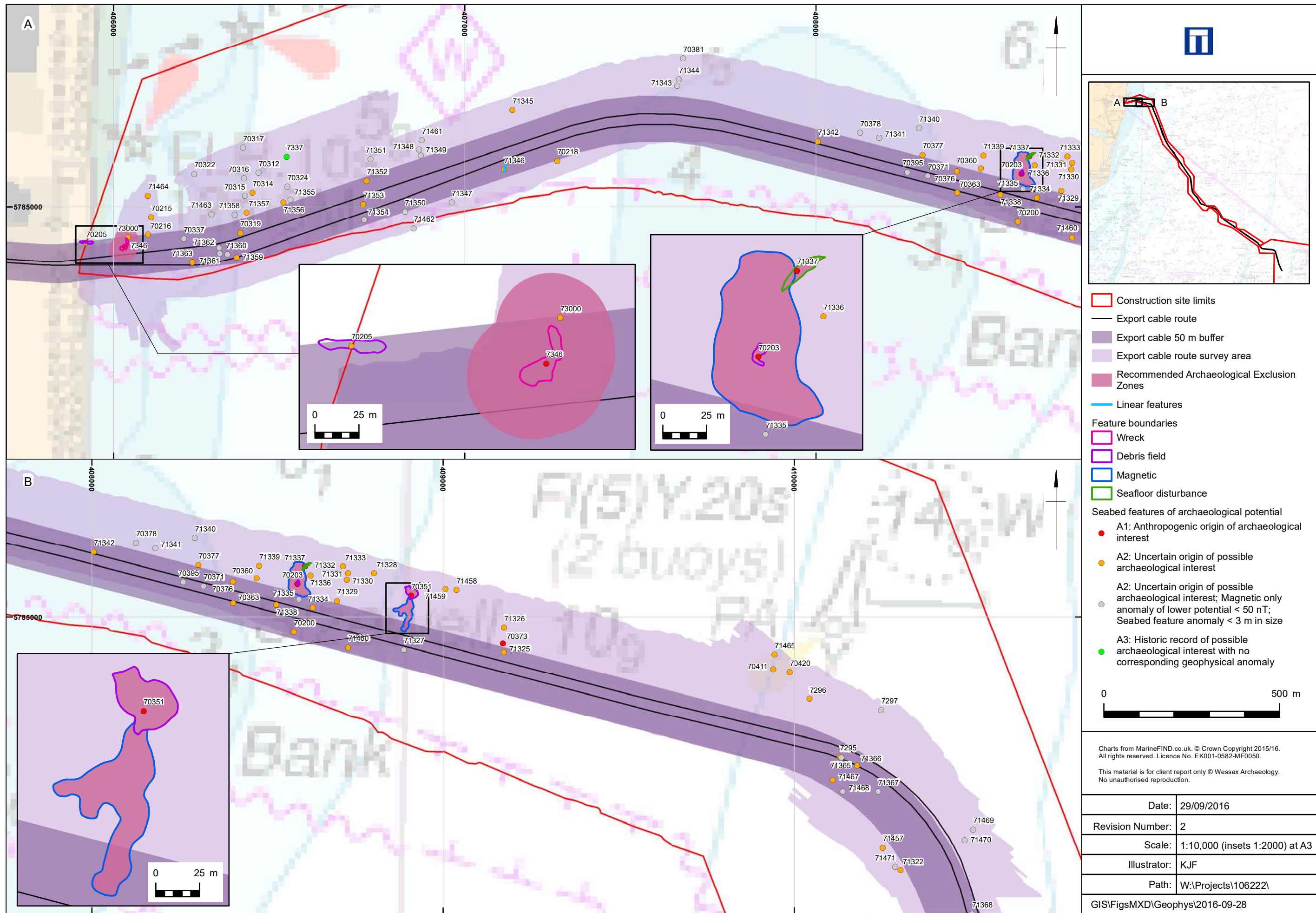


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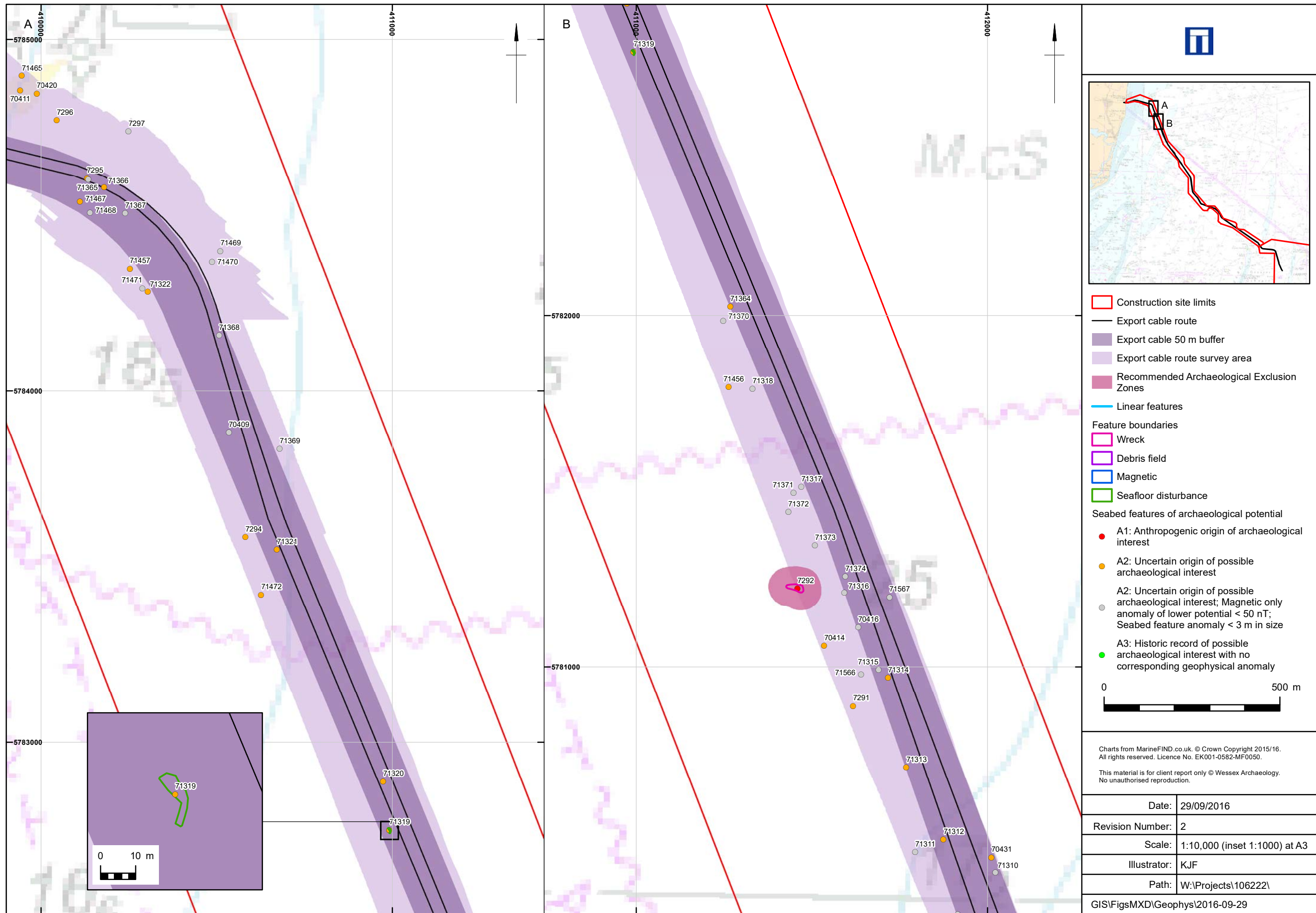
Location map

Figure 1



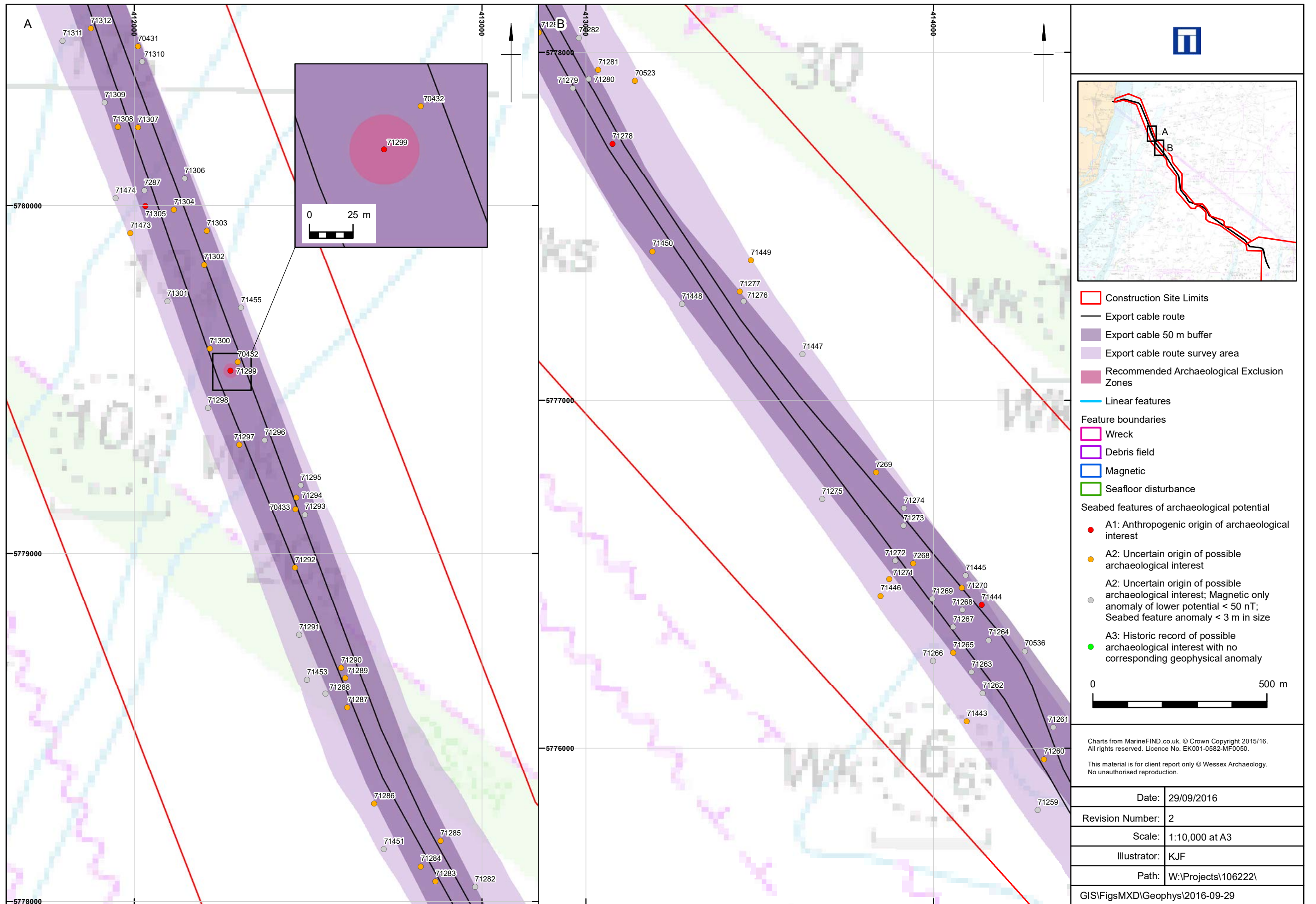
Anomalies of archaeological potential and exclusion zones

Figure 2a



Anomalies of archaeological potential and exclusion zones

Figure 2b



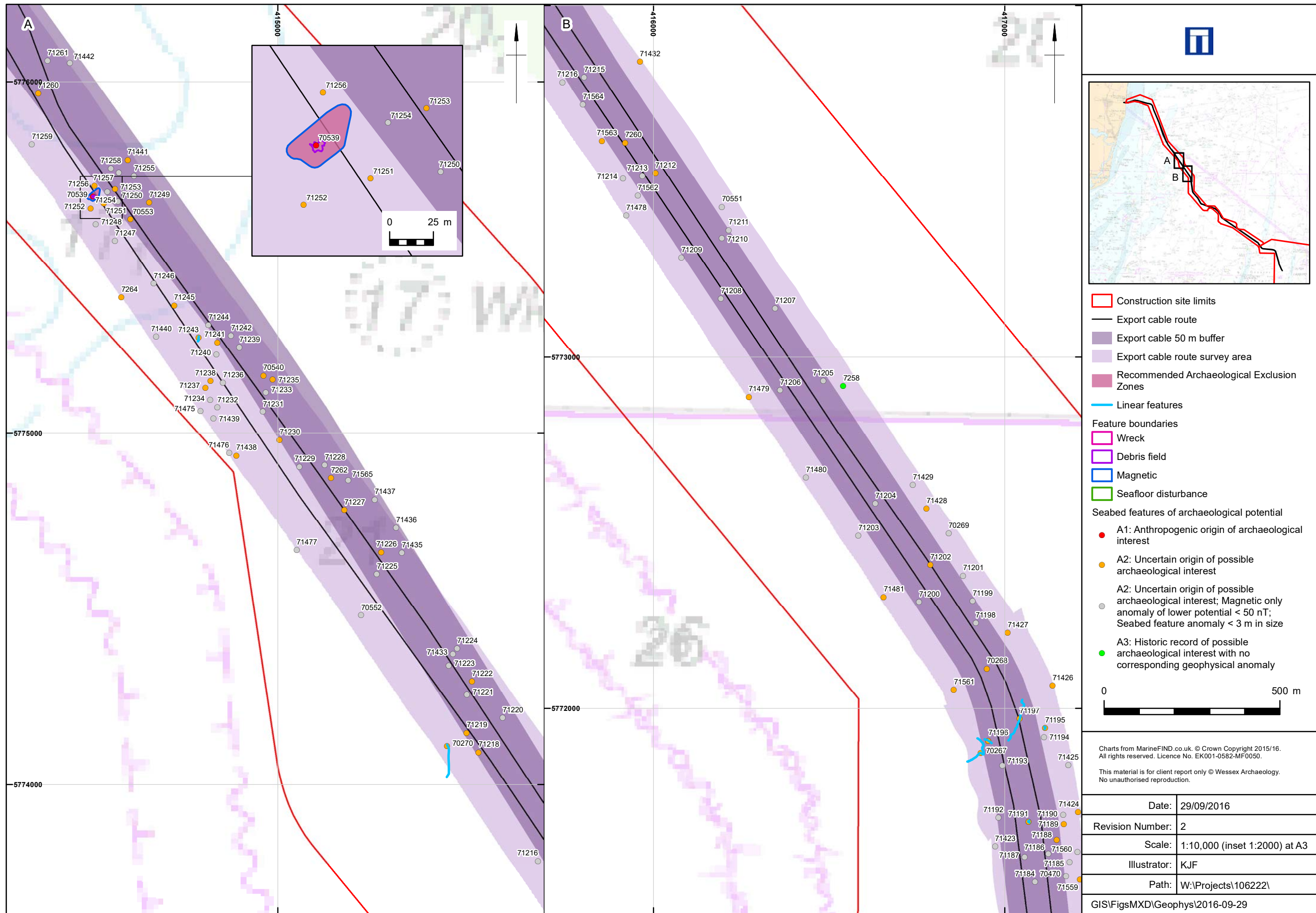
Anomalies of archaeological potential and exclusion zones

Figure 2c

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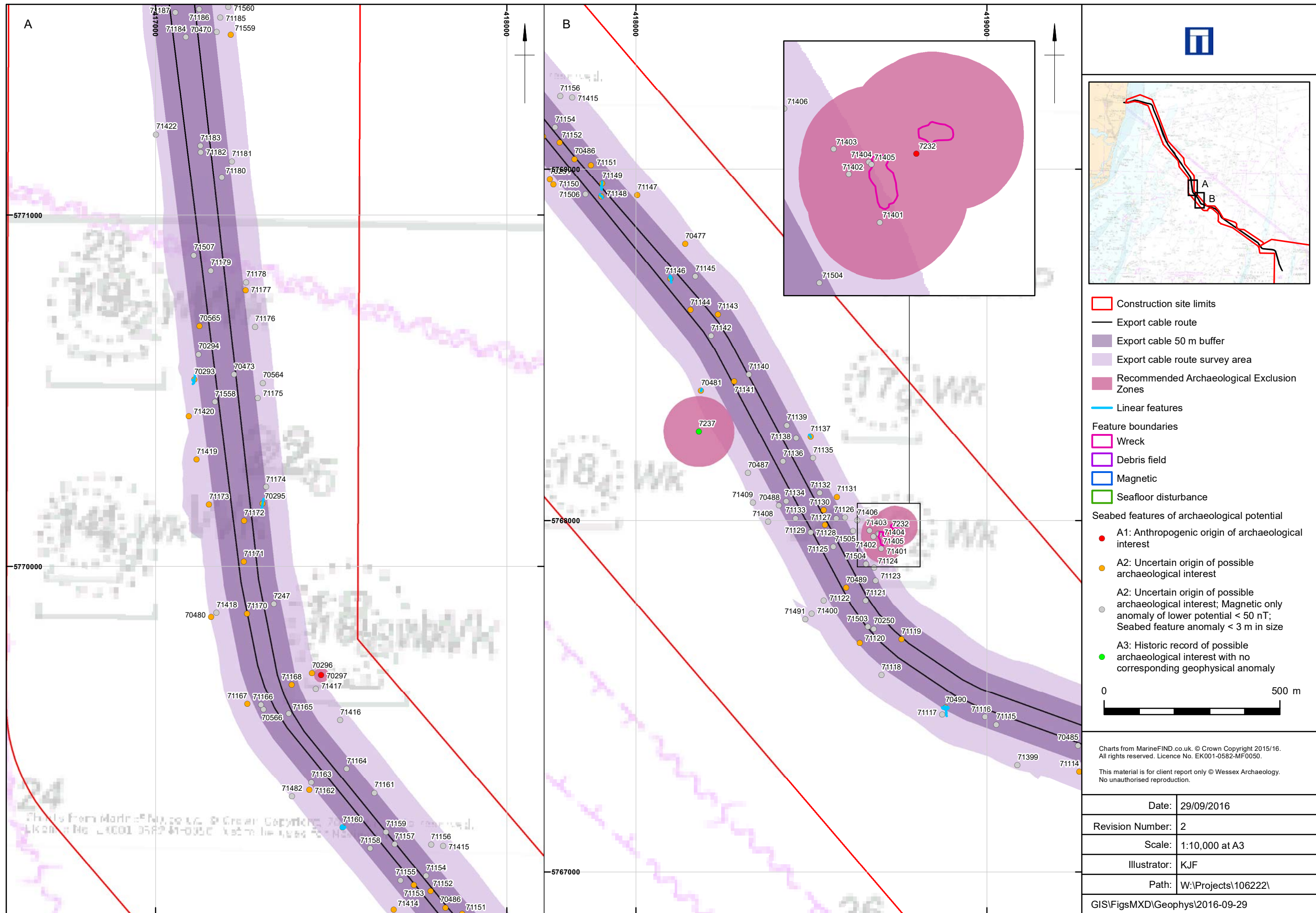
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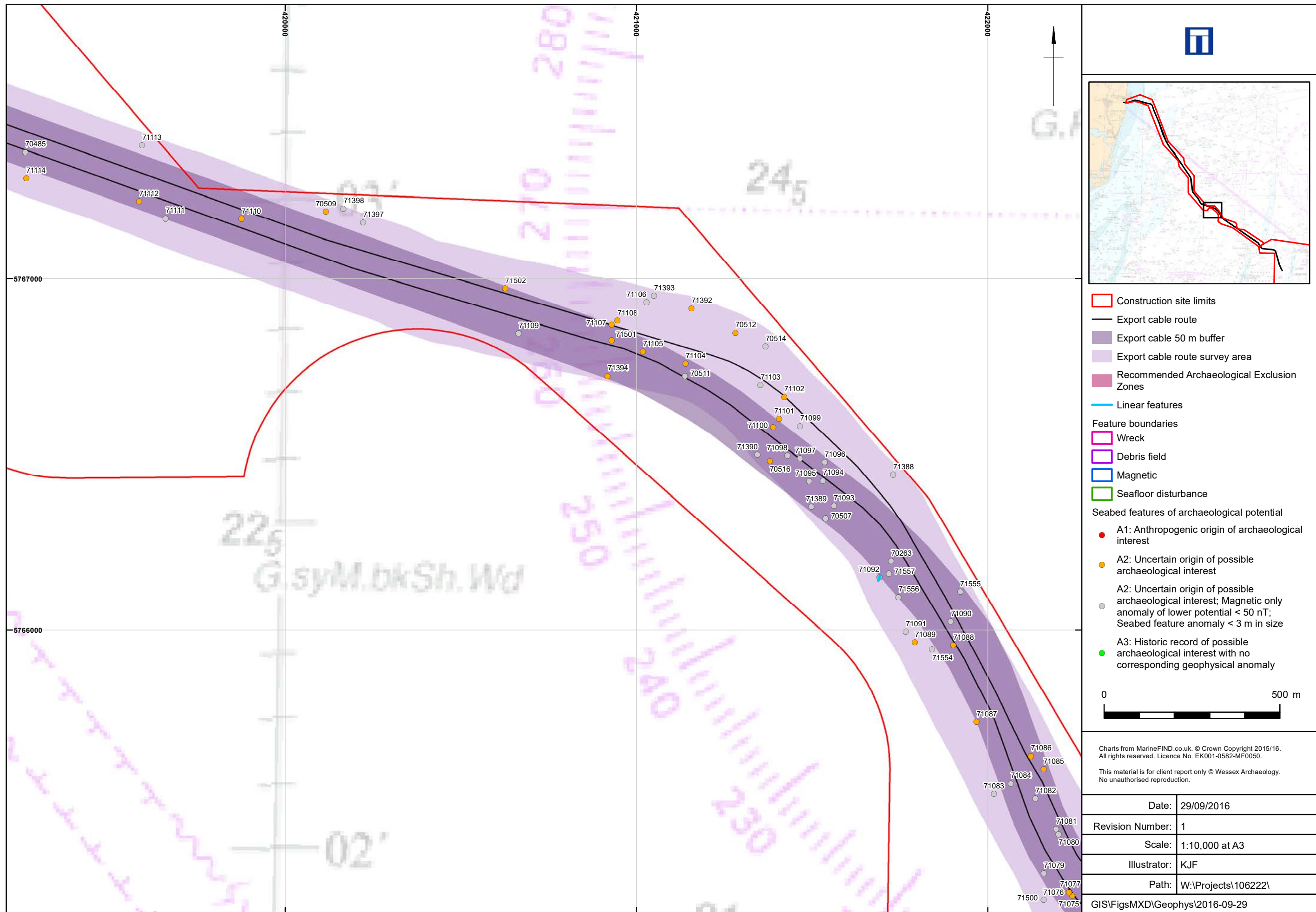
Anomalies of archaeological potential and exclusion zones

Figure 2d

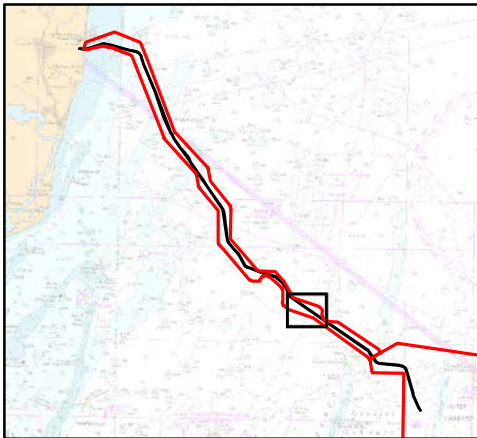
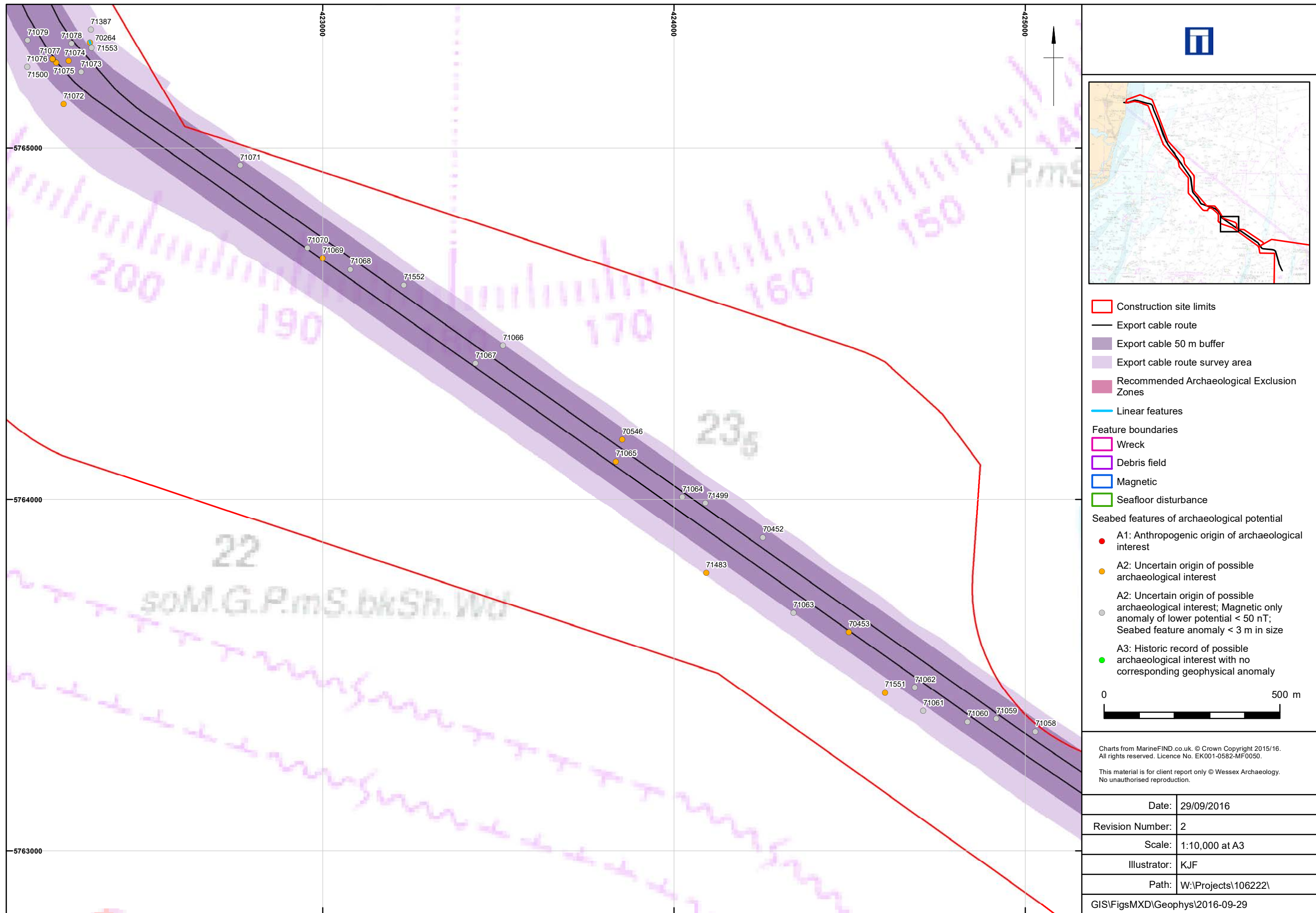


Anomalies of archaeological potential and exclusion zones

Figure 2e



Anomalies of archaeological potential and exclusion zones



- ▭ Construction site limits
- Export cable route
- Export cable 50 m buffer
- Export cable route survey area
- Recommended Archaeological Exclusion Zones
- Linear features
- Feature boundaries
- Wreck
- Debris field
- Magnetic
- Seafloor disturbance
- Seabed features of archaeological potential
- A1: Anthropogenic origin of archaeological interest
- A2: Uncertain origin of possible archaeological interest
- A2: Uncertain origin of possible archaeological interest; Magnetic only anomaly of lower potential < 50 nT; Seabed feature anomaly < 3 m in size
- A3: Historic record of possible archaeological interest with no corresponding geophysical anomaly

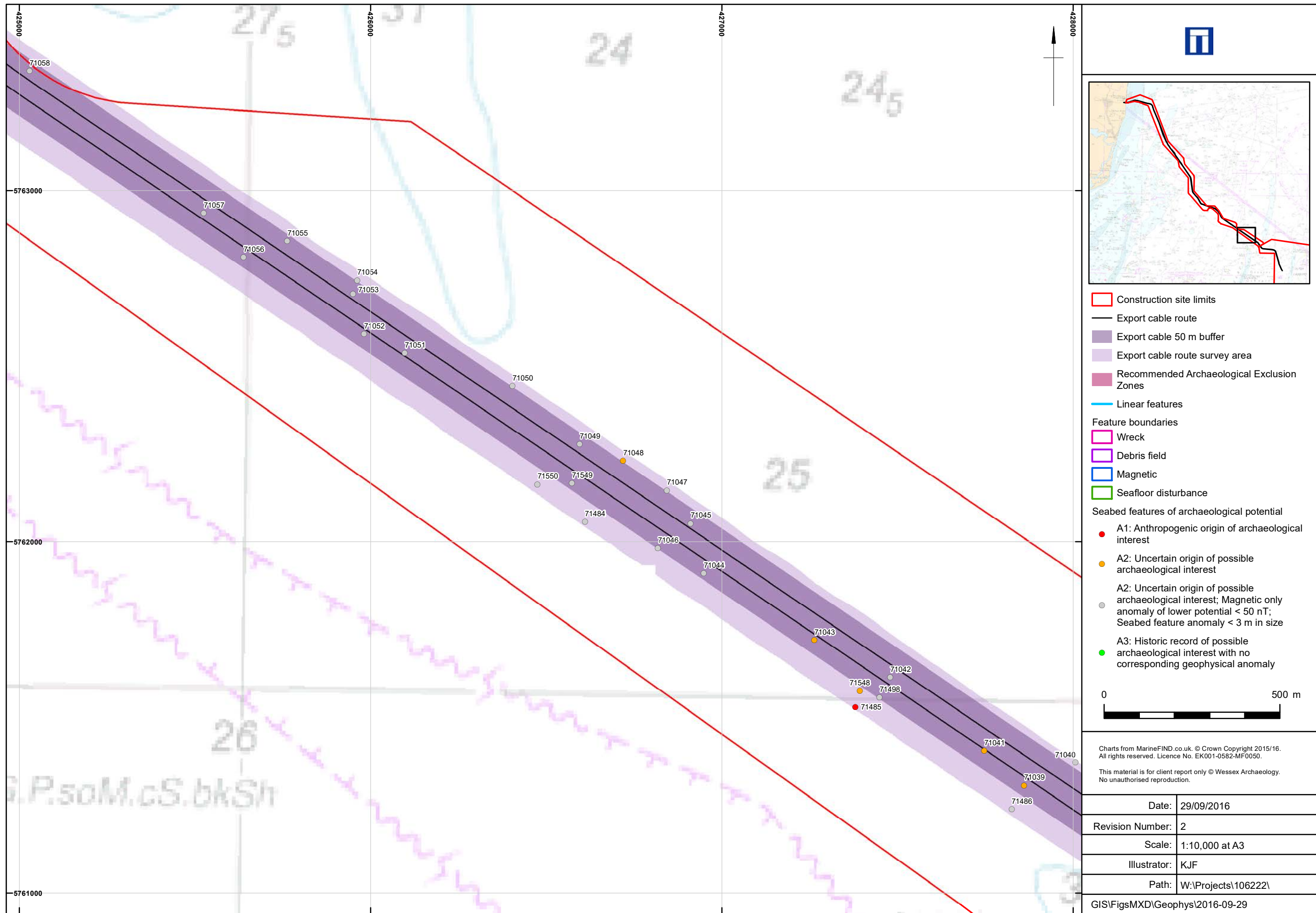
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Anomalies of archaeological potential and exclusion zones

Figure 2g

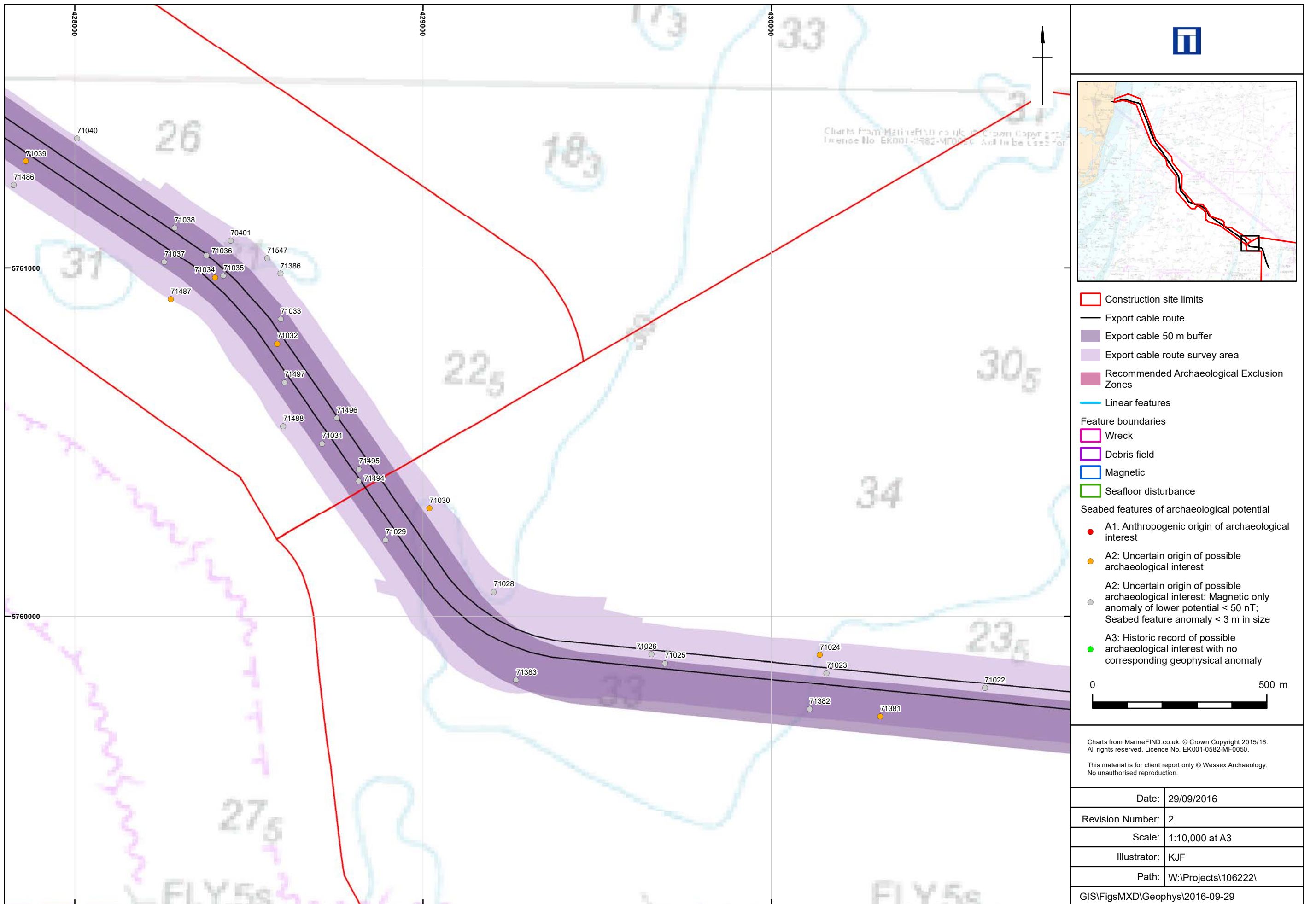


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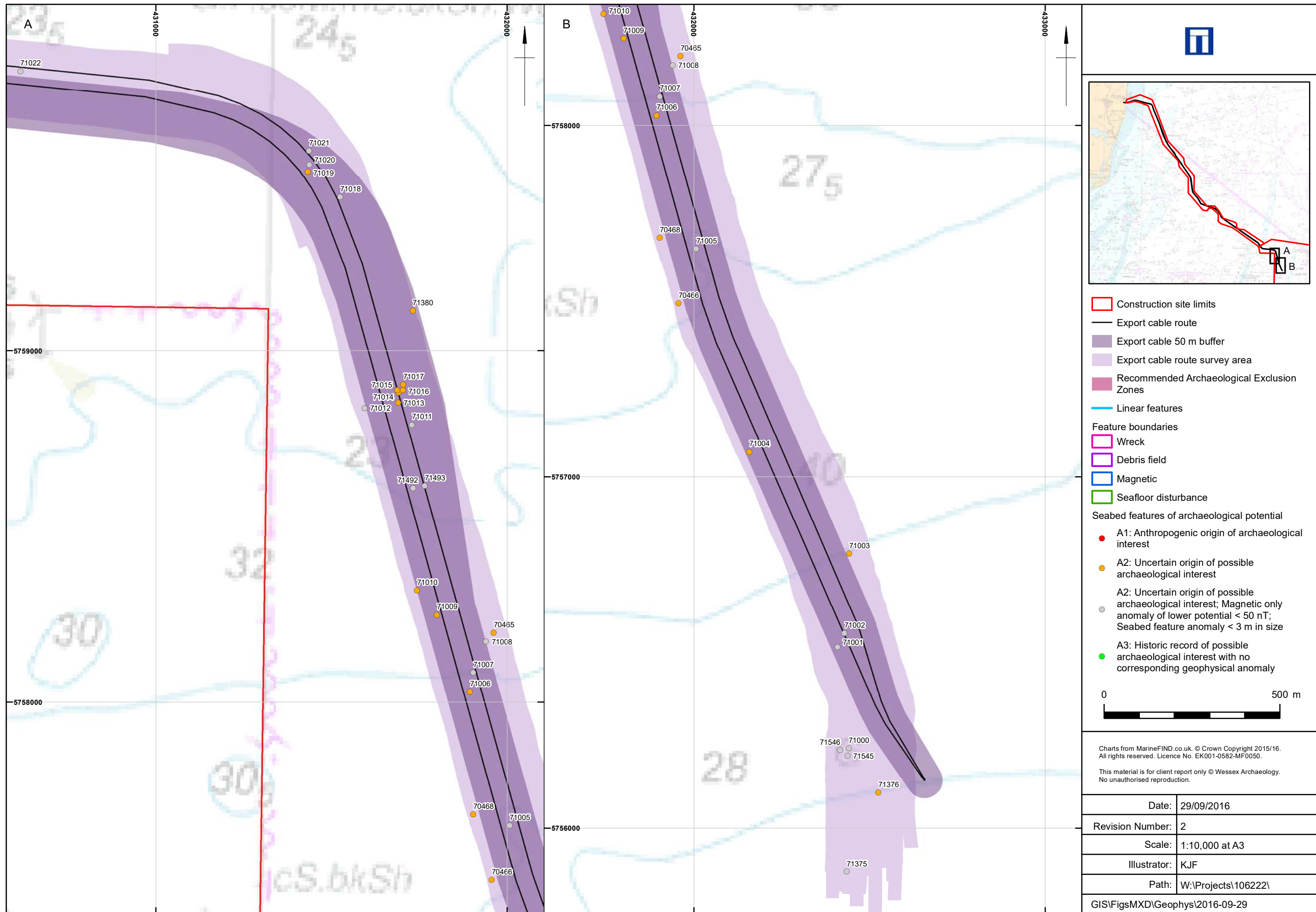
Anomalies of archaeological potential and exclusion zones

Figure 2h



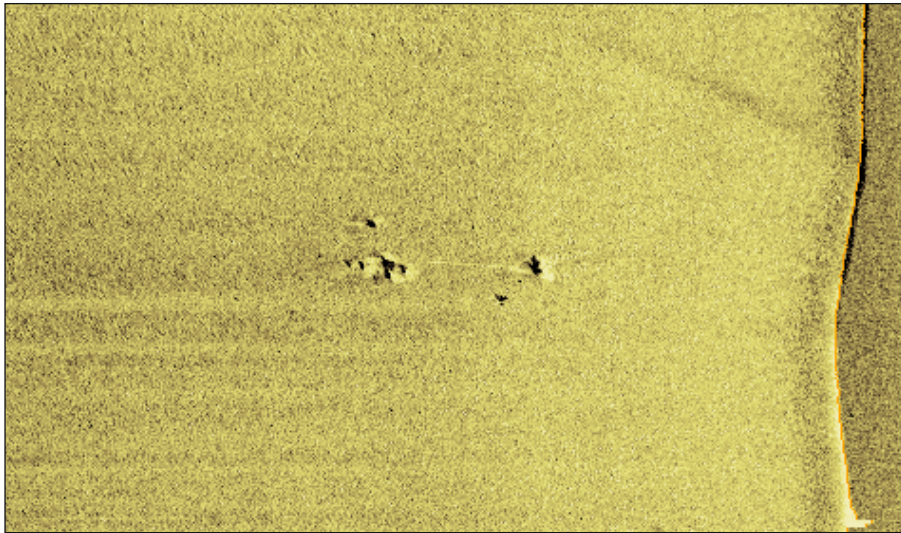
Anomalies of archaeological potential and exclusion zones

Figure 2i

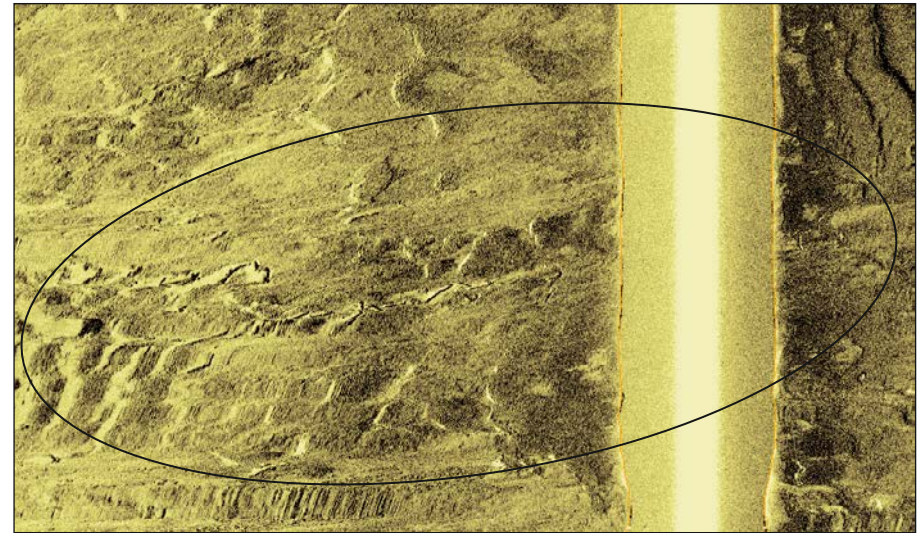


Anomalies of archaeological potential and exclusion zones

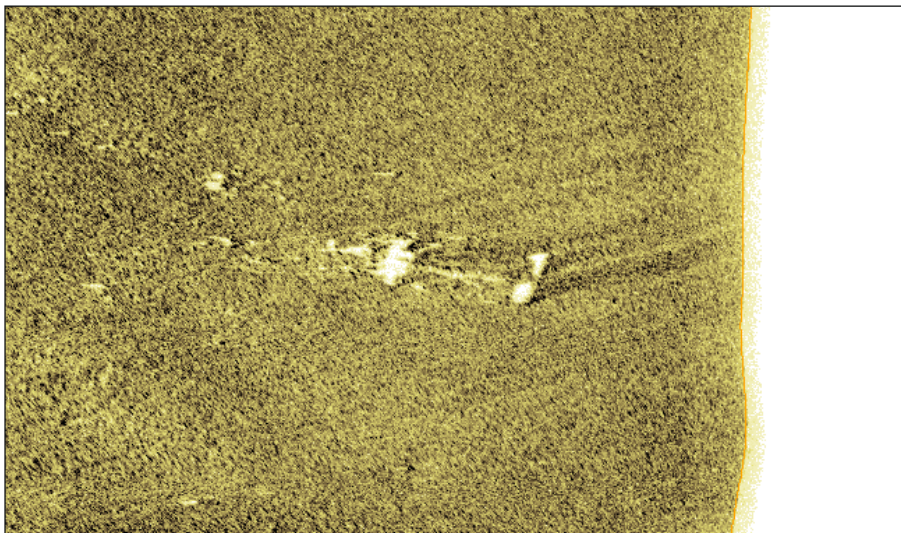
Figure 2j



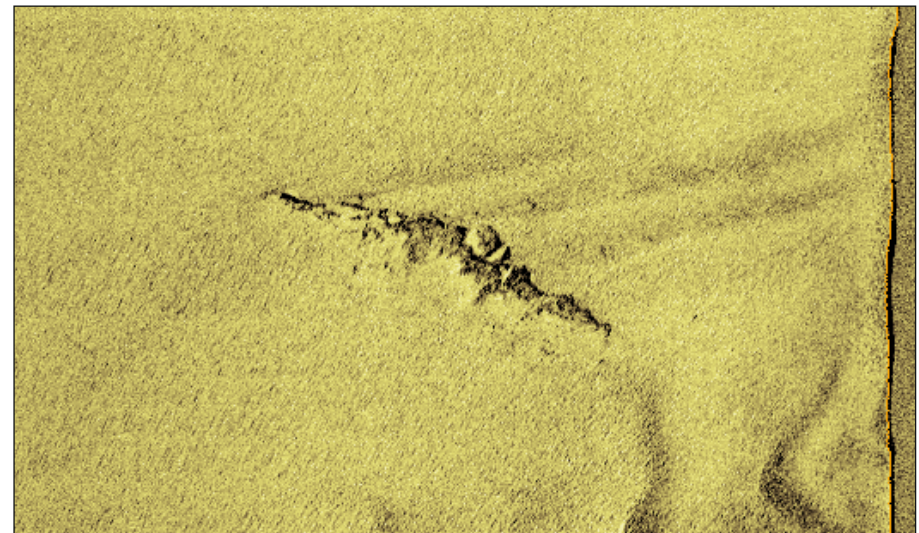
Sidescan sonar waterfall image of ferrous debris field 70203, 18.1 x 10.5 x -0.5 m



Sidescan sonar waterfall image of ferrous debris field 70351, 45.7 x 23.2 x 0.3 m



Sidescan sonar waterfall image of ferrous debris 70539, 8.6 x 8 x 0.4 m

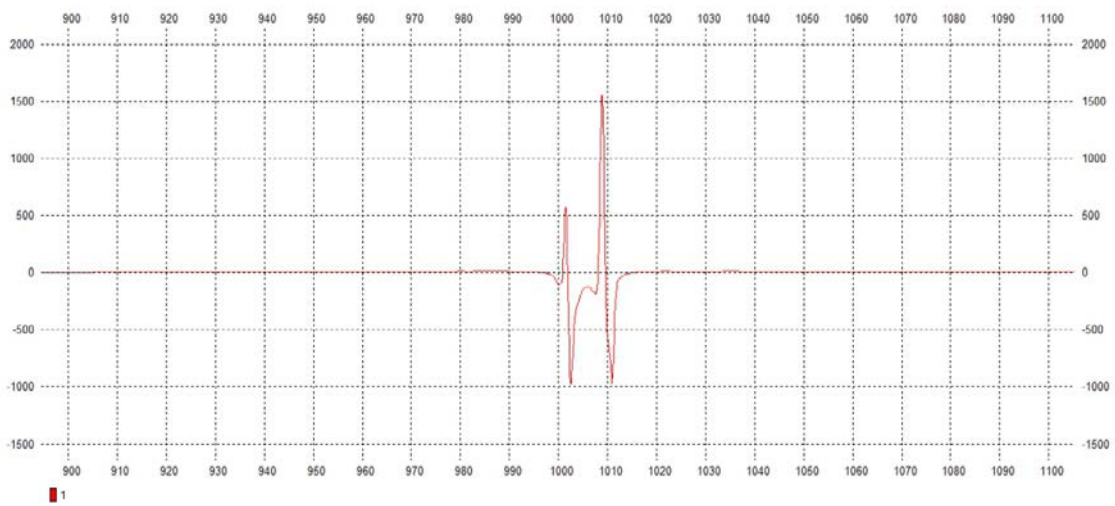


Sidescan sonar waterfall image of ferrous seafloor disturbance 71337, 24.4 x 3.8 x 0.6 m

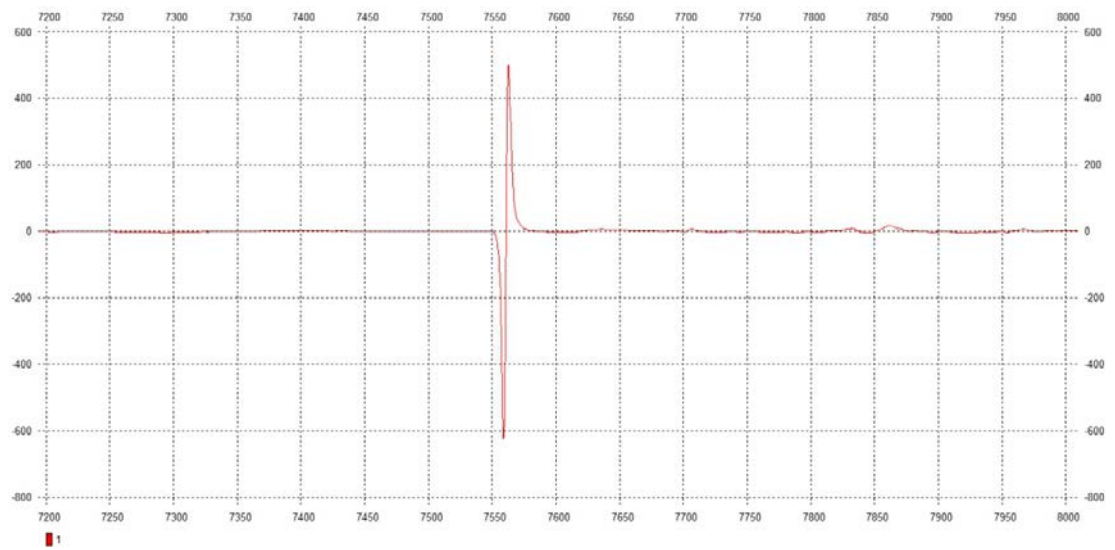


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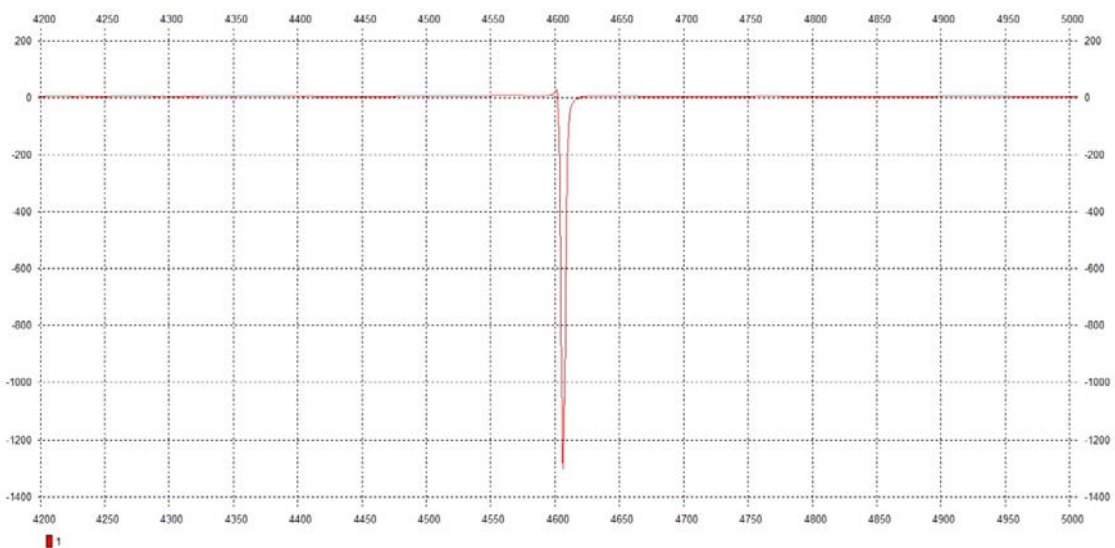
Date:	29/09/2016	Revision Number:	1
Scale:	NTS (A4)	Illustrator:	KJF
Path:	W:\Projects\106222\Graphics_Office\Rep figs\Geophys\2016-09-28		



Marine magnetometer profile image of presumed buried ferrous material 70373, 2539 nT



Marine magnetometer profile image of presumed buried ferrous material 71278, 1239 nT



Marine magnetometer profile image of presumed buried ferrous material 71305, 1337 nT



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Date: 10/03/2016

Revision Number: 0

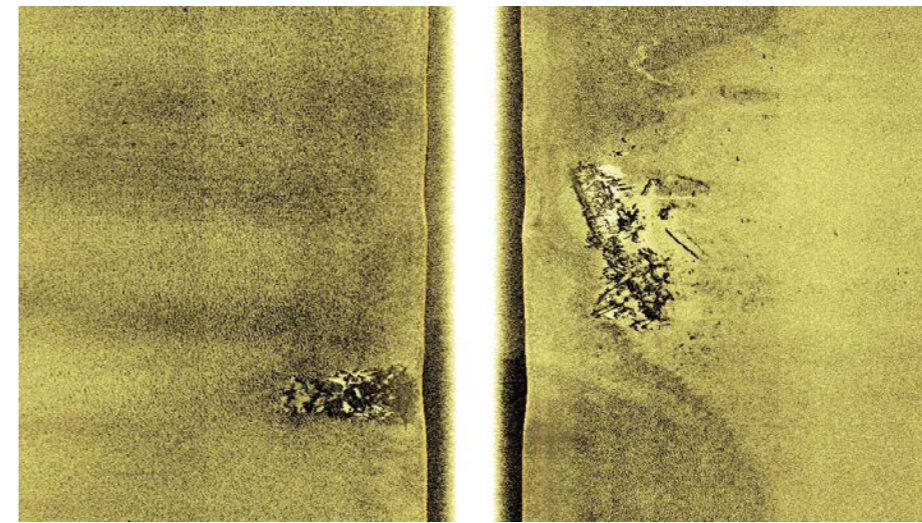
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Illustrator: KJF

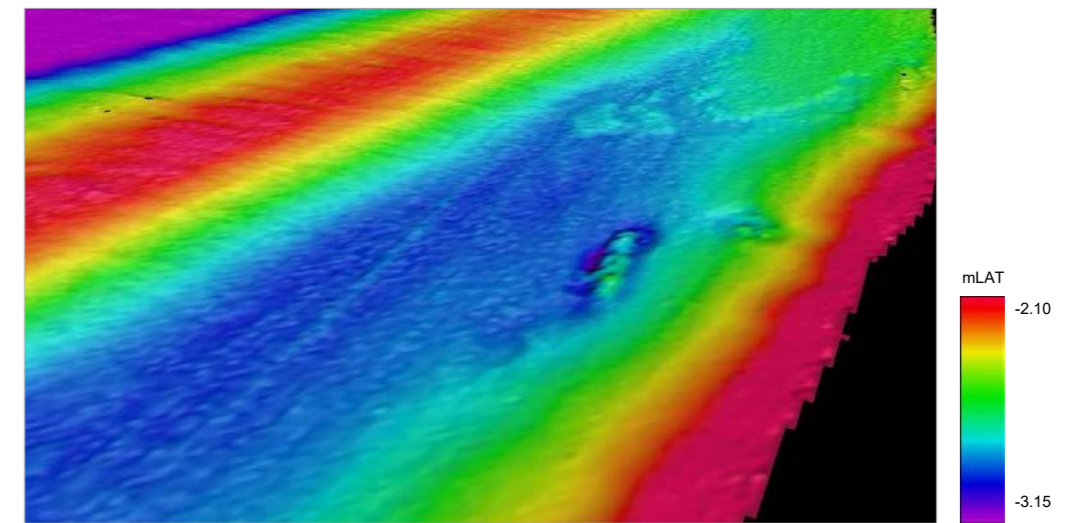
Path: W:\Projects\106222\Graphics_Office\Rep figs\Geophys\2016-03-09

WA 7346 Unknown Wreck

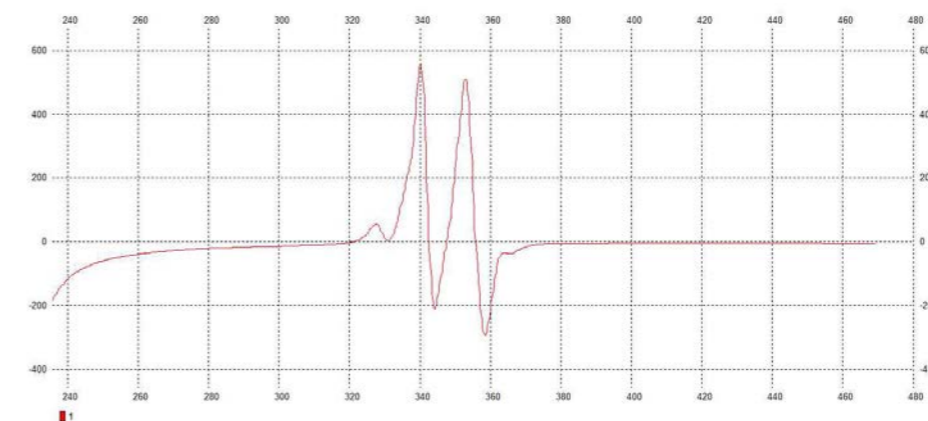
Location		406033 E, 5784890 N (UTM31N)
Archaeological Importance		High
Geophysical survey dimensions and notes		<p>Dimensions: 35.8 x 17.7 x 0.9 m.</p> <p>Observed as two distinct areas of structure in the sidescan sonar and multibeam echosounder datasets. This anomaly has been interpreted as a wreck though it is unclear whether it is broken in two or whether it is partially buried in the centre.</p> <p>The north-east section appears as large elliptical mound orientated NNW-SSE with some structure visible, measuring 22.6 x 6.1 x 0.9 m. There appears to be a cluster of fallen debris and possible masts to the north east side of this section measuring 13.4 x 3.7 x 0.2 m.</p> <p>The smaller section to the south-west appears more rounded and measures 11.1 x 9 x 0.3 m.</p> <p>A large magnetic anomaly of 816 nT has been associated with the wreck, indicating the presence of ferrous material.</p> <p>Due to the size, form and location of this wreck, it has been suggested that this wreck may be associated with UKHO record 10324, for the fishing vessel <i>Ocean Pride</i>. However further investigation would be needed to confirm this</p>
Build	Type	Unknown
	Construction	Unknown
	Dimensions	Unknown
	Shipyard	Unknown
Loss	Cause	Unknown
Extent of Survival		<p>The north-east section appears relatively intact with some structure visible. A debris field has been identified along the north-east side, including possible masts and other objects, with the largest pieces being a thin linear object measuring 4.7 x 0.2 x 0.2 m and an angular object measuring 1.5 x 1.3 x 0.2 m. The wreck appears broken up in the south-west of this section.</p> <p>The smaller section to south-west appears as a sub-rounded area of irregular objects with no discernible structure.</p> <p>This wreck was previously identified with only the north-east section visible as 20.3 x 8.3 x 0.4 m. However it was located within a larger area of disturbance measuring approximately 42 x 15 m. It is inferred that the south-west section was buried at this time and that the wreck has been subsequently uncovered by mobile seabed sediments. The most recent high resolution dataset indicates that the wreck boundary is well constrained with no evidence of any further associated debris on the seabed. However, it is possible for debris to be buried within the immediate vicinity.</p>



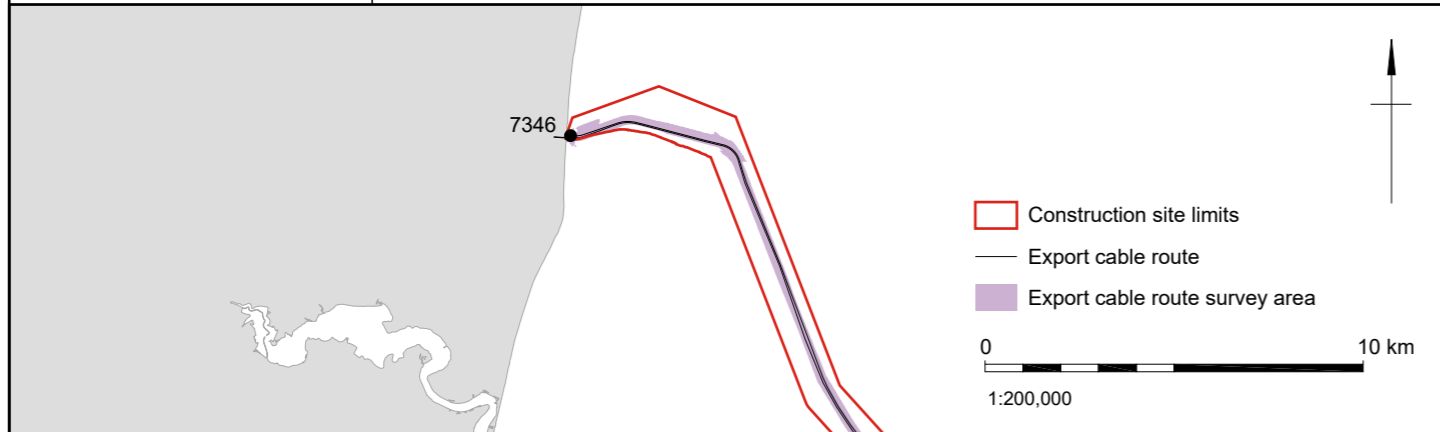
Sidescan sonar waterfall image of wreck 7346 in two sections, facing north, 35.8 x 17.7 x 0.9 m




Multibeam echosounder image of wreck 7346, facing SSE, X1 vertical exaggeration



Marine magnetometer image of wreck 7346, north east section, 816 nT



	Drawing projection: UTM WGS84 z31N Contains Ordnance Survey data © Crown Copyright and database right 2016. This material is for client report only © Wessex Archaeology. No unauthorised reproduction.		Date: 29/09/2016	Revision Number: 2	Illustrator: KJF
	Path: W:\Projects\106222\Graphics_Office\Rep figs\Geophys\2016-09-29				



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