Appendix I

Geology and Soils

A77 Maybole Bypass

Geotechnical Desk Study Report

Document reference: CON-HW/2500182/DOC-009

Revision: 1

Issued: 19 October 2012

Document Control Sheet

Project Name:	A77 Maybole Bypass
Project Number:	CO25000182
Document / Report Title:	Geotechnical Desk Study Report
Document / Report Number:	CON-HW/2500182/DOC-009

Issue Status/Amendment	Prepared	Reviewed	Approved
Issue: 0	Name: Sandra Campbell Date: 23 08 12	Name: Ron Ireland Date: 23 08 12	Name: Gordon MacDonald Date:
Issue: 1	Name: Sandra Campbell Date: 06 10 12	Name: Ron Ireland Date: 06 10 12	Name: Gordon MacDonald Date:
Issue: 2	Name: Sandra Campbell Signature: S. Campbell Date 19 10 12	Name: Ron Ireland Signature: Date: 19 10 12	Name: Gordon MacDonald Signature: Date: 19 10 12

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1. Introduction

1.1. Background Information

Amey have been commissioned by Transport Scotland to progress the A77 Maybole Bypass through DBRB Stage 3, Statutory Procedures, Procurement and Construction Supervision.

The A77 passes through the centre of Maybole along the High Street, which is the main retail area in the town. The High Street has evolved from a medieval street and has restricted carriageway and footway widths. These restricted widths combined with the large number of cars and heavy goods vehicles (HGVs) using the A77 to travel to the port facilities at Cairnryan have resulted in a bottleneck for strategic traffic and poor conditions for pedestrians and local traffic. In addition, there is a fatal accident cluster at the Smithson railway bridge to the north of Maybole.

In order to address these concerns, it is proposed to construct a bypass to the west of the existing route.

A geotechnical statement of intent for the site was issued by Amey Consulting in June 2012.

1.2. Geotechnical Category

This desk study report is required to aid preliminary design. In accordance with the DMRB; Volume 4, SH4/89 Geotechnical Certification Procedures: Trunk Road Ground Investigations (Incorporating Amendment No. 1, dated March 1990), the scheme has been classified as a Geotechnical Category 'B'.

1.3. Objectives of the Desk Study Report

The objectives of the desk study report are to provide:

- A description of the site, including information relating to the topography, geology, mining, hydrogeology, hydrology, historical development and potential contamination along the route of the proposed bypass;
- A preliminary conceptual site model for the site;
- A description of the anticipated ground conditions along with their probable engineering properties;
- A preliminary engineering assessment;
- A preliminary geotechnical risk register; and
- Recommendations for ground investigation.

1.4. Limitations of the Report

This Report has been prepared for Transport Scotland, in accordance with DMRB Volume 4, Part 2, HD22/08 Managing Geotechnical Risk and Part 7, Technical Memorandum SH4/89 Geotechnical Certification Procedures: Trunk Road Ground Investigations.

Amey have prepared this Report for the sole use of Transport Scotland under the agreed framework within which Amey provide technical services to Transport Scotland. Professional services supplied by Amey and advice within this desk study carry no other warranty, stated or implied beyond the framework. No guarantee is provided for third party use of this document without prior written permission from Amey.

Amey have based the conclusions and recommendations within this report upon information supplied by third parties. Amey have assumed that all relevant information has been supplied from whom it was requested. Unless otherwise stated in this Report, independent verification of the supplied information has not been carried out by Amey.

2. The Site

2.1. Site Location

The A77 is a major arterial road linking the city of Glasgow and town of Kilmarnock with the port facilities at Cairnryan. The road generally runs in a northeast to southwest direction and passes through the centre of the town of Maybole in South Ayrshire.

The proposed Maybole Bypass is located to the north of the town, tying in to the existing A77 at Broomknowles farm approximately 400 m to the west of Maybole (NGR 228815 609466) and immediately to the south of Bankend Bridge approximately 3.5 km northeast of Maybole (NGR 232096 612948), as shown in Figure 1 below:

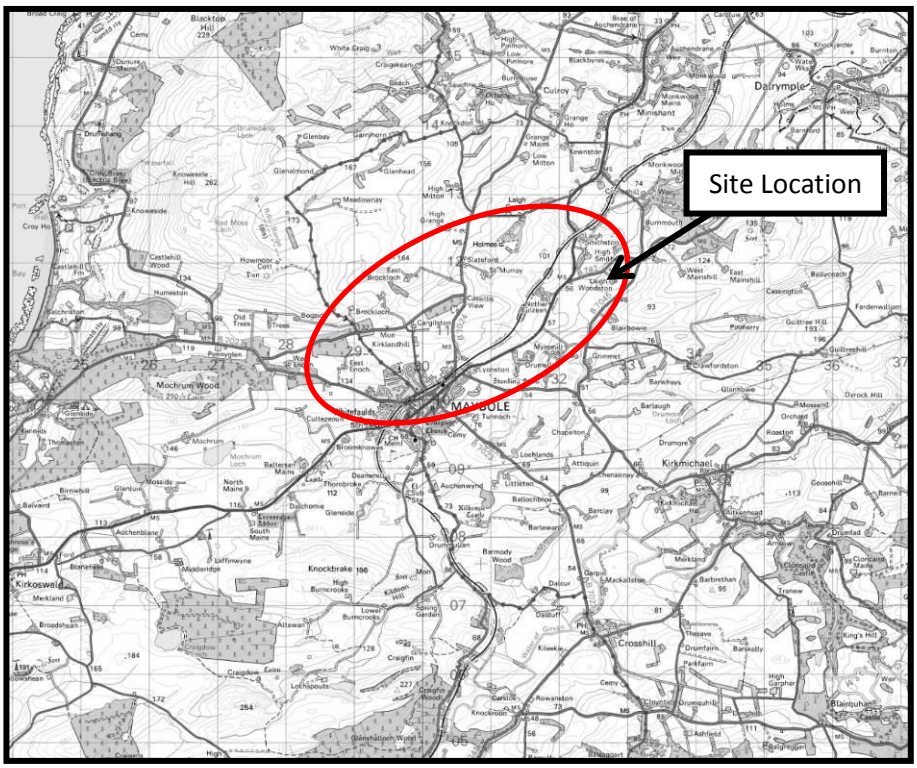


Figure 1: Site Location Plan

2.2. Scheme Proposals

It is proposed to construct a new A77 bypass of Maybole and the recommended route and junction arrangement was determined in a DMRB Stage 2 report issued in 2007[1]. This report identified the "yellow" route comprising a 5.2km bypass of the existing A77 to the north of the town as shown in Figure 2 overleaf.

The natural topography of the area is undulating, with a number of glacial moraines and drumlins, as illustrated in the photographs overleaf. As a result large sections of the proposed bypass will be constructed in cutting and embankment, with a maximum embankment height of approximately 6.5 m and a maximum cutting depth of approximately 20 m.

In addition, a minimum of three principal road crossings (overbridges or underbridges) will be required throughout the scheme.

2.3. Site Description & Topography

The scheme generally passes through undulating agricultural land, as illustrated in the photographs overleaf. From the southern tie-in with the existing A77 the proposed route trends north-eastwards, cutting through the centre of Gallow Hill and Kirkland Hill. The recorded elevations along this section, taken from the OS plans, vary between 90 mAOD at the start of the route to a maximum of 139 mAOD and 110 mAOD at the top of Gallow Hill and Kirkland Hill respectively.

The proposed route continues north-eastwards cutting through the side of several unnamed hills, with recorded elevations around 85 mAOD to 100mOAD. The natural topography then falls rapidly towards the northern tie-in, which is recorded at an elevation of 60 mAOD.

The scheme intersects four minor roads, the B7023, Kirklandhill Path, Gardenrose Path and the B7024, all of which trend southwards into Maybole. The route also passes over two small watercourses, one at the centre of the route to the east of the B7024 and one at the northern tie-in with the existing A77.

To the south and east of the proposed route, the Glasgow to Stranrear railway line runs generally parallel with the existing A77. The railway is constructed in cutting and embankment and is approximately 100 m from the proposed route at its closest point.

During the site walkover, overhead electricity pylons and telephone pylons were noted along the scheme, as illustrated in the photographs overleaf.

[1] A77 Maybole Transport Study, DMRB Stage 2 Report, Atkins, Rev 2, October 2007

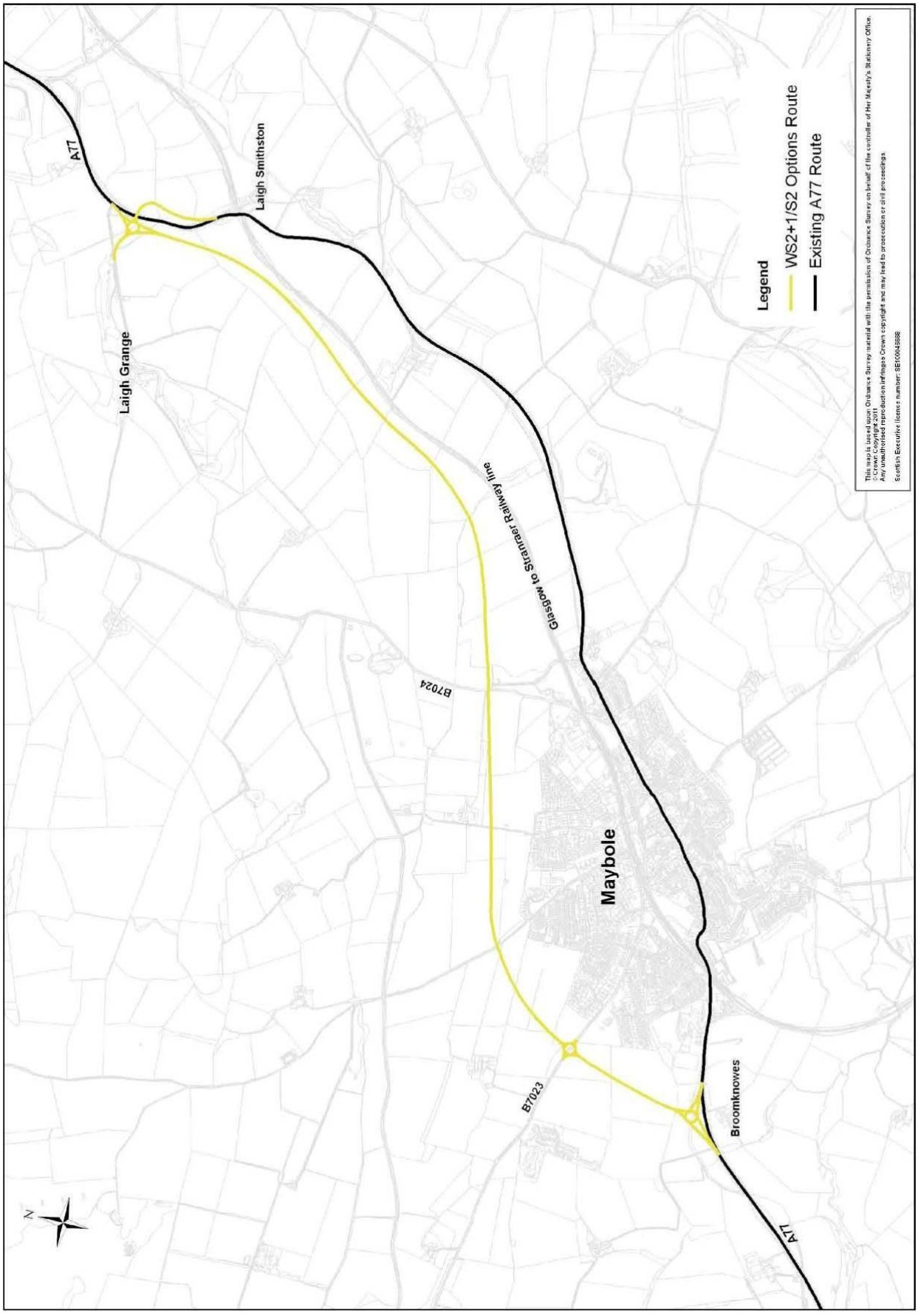


Figure 2: Yellow Route Plan

Photograph 1: Looking southwest from the existing A77 at the northern tie-in

Photograph 2: Looking northeast from the proposed intersection with the B7024

Photograph 3: Looking southwest at the proposed intersection with the B7024

Photograph 4: Looking northeast from proposed intersection with Gardenrose Path road

Photograph 5: Looking southwest from proposed intersection with Gardenrose Path road

Photograph 6: Looking northeast from proposed intersection with the B7023

Photograph 7: Looking southwest from proposed intersection with the B7023

Photograph 8: Looking northeast from the southwest tie-in with the A77

2.4. Utilities

Utility companies were contacted for information regarding the position of their assets in relation to the proposed route of the A77 Maybole Bypass.

The following utilities are present at the site or within its immediate vicinity:

- The BT Openreach plans recorded several areas of overhead and buried apparatus along the proposed route. Overhead and buried apparatus were recorded adjacent to the proposed southern tie-in, running along the B7023 adjacent to the proposed intersection and adjacent to the proposed northern tie-in. Buried apparatus was also recorded in the vicinity of the proposed intersection with Gardenrose Path road and the B7024. Further overhead apparatus was recorded along the Kirklandhill Path road adjacent to the proposed intersection.
- The Scottish Power plans recorded overhead lines along the scheme. High voltage and extra high voltage overheads were recorded at the proposed soutern tie-in, in the vicinity of the proposed intersections with the B7023 and Gardenrose Path road and adjacent to the proposed northern tie-in.
- The Scottish Water plans indicate a water pipe running along Gardenrose Path road.

The Scottish Gas, Orange and Virgin Media plans indicated no assets at the site or within its immediate vicinity.

Copies of the relevant correspondence received from the utility companies contacted as part of the desk study research are included within Appendix B.

2.5. Historical Development

In order to determine the historical development of the site, historic Ordnance Survey (OS) sheets were obtained through Landmark Envirocheck[2]. A summary of the historical development of the scheme, taken from a review of the OS sheets is presented below. A copy of the relevant OS sheets is included in Appendix C.

The earliest available OS plans (1859/1860) recorded the scheme and surrounding area as predominately undeveloped agricultural land, with localised areas of woodland and a small area of marshy land approximately 300 m to the south of the scheme's northern extent. Several small farm buildings were also shown in the surrounding area,

[2] Envirocheck Report, Landmark Information Group, Report Ref 40002230_1_1, 03 July 2012

An unnamed road was recorded trending west to northeast to the south and west of the scheme, generally following the route of the present day A77. The northern and southern extents of the scheme tie in with the road which passed through the village of Maybole sited to the southwest of the scheme. Between the existing road and the scheme, the Glasgow to Stanraer railway line was shown constructed on embankment. The railway line was approximately 100 m from the scheme at its closest point and was shown crossing the road at Smithston Bridge, approximately 500 m from the scheme's northern extent.

Intersecting the scheme, four minor roads were recorded, generally following the route of the present day B7023, Kirklandhill Path road, Gardenrose Path road and B7024.

Approximately 100 m to the west of the scheme's northern extent a reservoir was recorded. A small watercourse was shown flowing from the reservoir south eastwards towards the main road and bisecting the scheme. Several pumps, wells and field drains were also noted in the surrounding area.

A number of sand, gravel and sandstone quarries were recorded to the north of the scheme, all generally over 300 m from the scheme extents. However, an old quarry was noted approximately 80 m to the north of the scheme, near the present day Kirklandhill Path road.

No significant changes were noted on the 1896-1987 OS plans. The northern extent of the site was named as Backend Bridge and the southern extent was named as Parish Marsh Bridge.

The 1910-1911 OS plans recorded the expansion of Maybole to the south of the scheme. No changes were noted on the 1938 OS plans.

No significant changes were noted relative to the scheme on the 1957-1958 OS plan. However, the marshy area in the north of the scheme was no longer shown nor the reservoir to the west of the northern extent. A small watercourse was noted flowing through the centre of the scheme west to southwest towards the railway line. A second small watercourse was noted to the south of the scheme flowing northwest to southeast. Maybole to the southeast of the scheme continued to expand.

The 1971-1978 OS plans no longer recorded the old quarry 80 m to the north of the scheme, which appeared to be infilled.

The 2006 OS plans recorded the expansion of Maybole to the southeast of the scheme. No other significant changes were noted on this or subsequent OS plans.

2.6. General Geology

Geological information published by the British Geological Survey (BGS)[3] and supplied by Landmark Information Group[2] was reviewed to determine the anticipated geology at the site.

[3] www.bgs.ac.uk

The geology maps show the superficial deposits underlying the proposed route to be predominately glacial till. This is described as comprising brown or blue-grey clay with variable sand and gravel content and many rounded cobbles and boulders.

Along the western half of the route (to the west of the B7024), the maps record the glacial till to occur as glacial moraines described as mounds or ridges of boulder clay, sand and gravel possibly laid down at the margins of a wasting mass of ice. Two drumlins were also noted on the map immediately to the north of the proposed route, one near the centre of the route and one towards the northern extent. The drumlins were described as ice-moulded mounds of boulder clay elongated in the direction of ice flow.

A band of alluvium was recorded close to Bankend Bridge at the northern tie-in with the existing A77. The alluvium is described as mixed silt, sand and gravel.

The artificial ground and landslip map contained within the Envirocheck report recorded a small area of made ground at the southern tie-in with the A77. This is likely to have been placed during the construction of the existing A77. Several other small areas of made ground were also recorded to the south and west of the route, predominately at the intersection with the B7024 and close to Smithston Railway Bridge, south of the northern tie in.

The underlying bedrock shown along the route is the Swanshaw Sandstone Formation, part of the Siluro-Devonian Lower Old Red Sandstone. The formation comprises up to 750 m of red-brown, grey-green and chocolate-brown, medium and coarse-grained terrestrial sandstones with subordinate pebble beds and conglomerates, minor sandstones, siltstones and mudstones. The formation is continuous along the scheme and dips were noted to the north and northwest.

A single dyke of crianite (an analcite olivine dolerite) or basalt was shown intruding into the Old Red Sandstone immediately to the east of the route, to the north east of Maybole town centre.

An examination of the Envirocheck Mining and Ground Stability report indicates that several geo-hazards associated with the underlying geology may be present beneath the site as shown below.

Table 1: Summary of Potential Geo-hazards (west of B7024)

Geo-hazards	Nil	Very Low	Low	Moderate	Significant
Compressibility Potential		√			
Collapsibility Potential		√			
Running Sand	√				
Solution Potential	√				

Table 1: Summary of Potential Geo-hazards (west of B7024)					
Geo-hazards	**Nil**	**Very Low**	**Low**	**Moderate**	**Significant**
Swell – Shrink Potential	√				
Landslides		√			

Table 2: Summary of Potential Geo-hazards (east of B7024)					
Geo-hazards	**Nil**	**Very Low**	**Low**	**Moderate**	**Significant**
Compressibility Potential		√			
Collapsibility Potential		√			
Running Sand			√		
Solution Potential	√				
Swell – Shrink Potential			√		
Landslides		√			

A localised area of moderate potential of compressibility strata was recorded at the northern tie in, probably associated with the area of alluvium.

2.7. Mining Activity and Quarrying

A review of the gazetteer, published by The Coal Authority[4] indicated that the site lies within an area for which a Coal Mining Report is not required. In addition, information published by the BGS website[3] (Mining Access Portal GIS) relating to coal and non-coal mineral extraction indicates that there are no mine plans available for the area and the area is not within an area of known mining.

The mining and ground stability map provided by Envirocheck indicated no areas of mining were present within the site or surrounding areas.

However, a historic sandstone quarry (named as Kirklandhill) was recorded 80 m north of the proposed route adjacent to the Kirklandhill Path road. The operator of the quarry was unknown. This quarry was also recorded on the historic OS plans, noted as old quarry from the first edition plans (1859/1860) until the 1971/1978 plans where it appeared to be infilled.

[4] www.coal.decc.gov.uk

A number of other historic quarries were noted both on the historic OS plans and Envirocheck report, all more than 300 m from the scheme extents.

2.8. Hydrogeology

The Groundwater Vulnerability Map of Scotland[5] records the underlying bedrock to generally comprise rocks of moderate permeability. These are fractured or potentially fractured rocks, which do not have a high primary permeability or other formations of variable permeability. Although these formations will seldom produce large quantities of water for abstraction they are important for local supplies and in supplying base flow to rivers.

In addition, the Groundwater Vulnerability Map also indicates that the superficial deposits may be substantial in thickness.

The Hydrogeological Map of Scotland[6] indicates the route is underlain by Lower and Middle Old Red Sandstone. These deposits contain locally important aquifers in which flow is dominantly in fissures and other discontinuities.

2.9. Hydrology

The available Ordnance Survey plans[2] noted three small watercourses/ drains flowing through the scheme. Two watercourses/ drains were recorded flowing west to southeast adjacent to the northern tie-in with the existing A77. They were shown flowing into the Chapelton Burn, which flows southwest to northeast approximately 700 m from the scheme. The third watercourse/drain was recorded flowing west to southeast at the centre of the scheme, approximately 700 m to the east of B7024.

Immediately to the south of the scheme a small watercourse was also recorded flowing northwest to southeast beneath the existing A77 and towards Abbeymill Burn. Abbeymill Burn flows north to southeast approximately 1.6 km to the southeast of the scheme. A number of other small watercourses, field drains, issues, sinks and wells were also noted in the surrounding area.

The Scottish Environment Protection Agency (SEPA)[7] website River Basin Planning interactive database (2012) was consulted to obtain water quality data for the two larger watercourses near the site. The following information was available:

[5] Groundwater Vulnerability Map of Scotland, British Geological Survey, 1, 625,000, 1995
[6] Hydrogeological Map of Scotland, British Geological Survey, 1:625,000: 1988
[7] www.sepa.org.uk

Table 3 : Summary of Water Quality Data		
Watercourse Name	**Current Classification (2012)**	**Objective 2015**
Chapleton Burn	Moderate	Good
Abbeymill Burn	Moderate	Good

The Landmark Envirocheck Report[2] 2012 OS plan also depicted a number of pond features as follows:

- 2 surface water bodies, each approximately 300m^2, located 150 m to the east of the southern tie-in; and
- 1 larger surface water body, approximately 12,000m^2, located 500 m to the west of the proposed northern tie-in.

The Scottish Environment Protection Agency (SEPA)[7] website indicates that the site does not lie within an area susceptible to flooding.

2.10. Environmental Assessment

A Landmark Envirocheck Report[2] was obtained for the site and surrounding area. The report contains information which is provided by a number of bodies including Ordnance Survey (OS), the British Geological Survey (BGS), Scottish Environment Protection Agency (SEPA) and the Coal Authority. A copy of the Envirocheck Report is included within Appendix C.

The report noted one Local Authority recorded landfill site approximately 140 m to the west of the scheme at Kirklandhill. The landfill was closed in 1970 and was operated by South Ayrshire Council. The type of waste was not indicated.

In addition, one contemporary trade entry named as LCR Auto Solutions was noted approximately 240 m north of the scheme at McAdam Way, Maybole. This was classified as Garage Services and is currently active.

The Scottish Natural Heritage (SNH) website[8] indicated that the scheme and surrounding area are not within an area designated as a SSSI, Special Area of Conservation, Ramsar, Special Protection Area, National Nature Reserve, National Park or a Local Nature Reserve.

A separate Environmental Assessment has been undertaken by Amey and reported to Transport Scotland separately. The assessment did not indicate any environmental issues or concerns along the scheme.

[8] www.snh.gov.uk

3. Previous Exploratory Works

The British Geological Survey[2] holds information from a site investigation carried out by Norwest Holst under the direction of Strathclyde Regional Council in 1986. The investigation was originally designed to explore the suitability of various bypass routes north and south of Maybole.

The ground investigation comprised a number of exploratory holes and trial pits of which only six boreholes and four trial pits are considered relevant to the current scheme. The relevant exploratory holes are summarised in Table 4 below and illustrated in Drawing No CON-HW/2500182/DOC-009/002 contained in Appendix A.

Table 4 : Summary of Historic Boreholes and Trial Pits

Borehole	Easting	Northing	Depth (mbgl)	Distance from the site and Direction	Date
TP 229	230000	610630	3.1	90 m West	28/04/1986
S108	230430	610800	11	30 m West	28/04/1986
TP 222	230440	610830	4.5	5 m West	28/04/1986
TP 213	231540	611570	4	60 m North East	29/01/1985
S110	231760	611850	6	50 m South	31/01/1986
S111	231820	611970	6	40 m South	01/05/1986
S112	231900	612090	15.2	45 m South	02/05/1986
S113	231970	612210	16.3	45 m South East	08/05/1986
S114	232080	612420	5	120 m South East	09/05/1986
TP 227	232100	612490	3.4	140m South East	29/01/1986

The generalised sequence of strata as encountered by the exploratory holes is given in Table 5 overleaf:

Table 5: Summary of Strata		
Stratum	**Depth to underside (m)**	**Thickness (m)**
Topsoil	0.1 to 0.8	0.1 to 0.8
Glacial Till	2.0 to 15.8	1.7 to 15.0
Bedrock	Bedrock was encountered at depths of between 2.0 mbgl and 15.8 mbgl (60.79mAOD to 124.9mAOD)	

3.1. Topsoil

Topsoil was encountered in all the exploratory holes to a depth of between 0.1 m and 0.80 m and was generally described as brown sandy topsoil.

3.2. Glacial Till

Beneath the topsoil, glacial till was encountered in all of the exploratory holes. The material was generally described as firm becoming very stiff brown sandy silty clay with some gravel and occasional cobbles and boulders. Four of the exploratory holes terminated within these deposits.

3.3. Bedrock

Trial pits 219, 227 and 229 encountered possible bedrock, described as greyish brown fine to medium grained sandstone, at depths of 2.0 mbgl, 3.1 mbgl and 2.7 mbgl (101.2mAOD, 60.79 mOAD and 124.9 mAOD) respectively.

Boreholes S110, S111, S112 and S113 also encountered bedrock at depths varying between 2.7 mbgl and 15.8 mbgl (74.57mAOD to 63.16mAOD). The bedrock was described as moderately weathered fine to medium grained sandstone.

It should be noted that the exploratory holes above have been sunk substantial distances apart and as such there is a considerable variation in ground level at each location and subsequently in the recorded depth to bedrock.

3.4. Groundwater

No groundwater was encountered in any of the exploratory holes during fieldwork, however 24 hours after drilling, groundwater was observed in boreholes S108, S111, S112 and S113, varying in depth between 2 mbgl and 15.7 mbgl.

4. Preliminary Conceptual Site Model

4.1. General

The Environment Protection Act 1990 (Part IIA) was adopted as statute in England and Wales on 1st of April, 2000 and enacted in Scotland on 14th of July 2000. This legislation defines the regime for identifying, assessing and, where appropriate, remediating land that is deemed to be 'contaminated' on the basis that it does, or could, adversely impact health or the environment.

In line with this legislation, the interpretation of the data compiled in connection with this report has been undertaken using risk-based principles adopting the contaminant source-pathway-receptor principle whereby in the context of land contamination, there are three essential elements to any risk:

- A **source** of contamination, for example due to historical site operations;
- A **pathway**: a route by which receptors can become exposed to contaminants. Examples include vapour inhalation, soil ingestion and groundwater migration; and
- A **receptor**; a target that may be exposed to contaminants via the identified pathways. Examples include site workers, the Water Environment, property and ecosystems.

Each of these elements can exist independently, but they create a risk only where they are linked together so that a particular contaminant affects a particular receptor through a particular pathway.

This kind of linked combination of contaminant-pathway-receptor is described as a pollutant linkage. The absence of one or more of these elements would prohibit a viable pollutant linkage being established. Defining a conceptual site model (CSM) for a site requires identification of all potential sources, pathways and receptors and any plausible combinations of these three components.

A preliminary CSM has been developed using the method summarised above in the context of the proposed bypass construction. This preliminary CSM can then be used in the design of subsequent intrusive investigations. The key potential sources, pathways and receptors identified at the site are described in the following sections.

4.2. Potential Sources

Potential sources of contamination associated with land use on the site may include:

- Hydrocarbon contamination of soils associated with vehicles using the A77 carriageway at the tie in locations along with the B7024, Kirklandhill Path, Gardenrose Path and B7023 heading north from Maybole town centre;

- Made Ground deposits associated with the construction of the A77 carriageway and B7024, Kirklandhill Path, Gardenrose Path and B7023 may contain heavy metals, sulphates and sulphides, poly-aromatic hydrocarbons and petroleum hydrocarbons;
- Contaminants associated with the site's historic use as agricultural land including a range of pesticides and herbicides.

4.3. Potential Receptors

Potential receptors associated with the site include:

- Human health receptors – construction workers and future site users;
- Shallow groundwater in the superficial deposits;
- Surface watercourses (Culroy Burn, Chapelton Burn and Abbeymill Burn); and
- Building materials – pavement construction.

4.4. Potential Pathways

For a risk to be present a pathway must exist between a source and receptor. The following potential pathways have been identified at the site including:

- Human health – dermal contact, ingestion and inhalation;
- Shallow groundwater and surface water– leaching and downward/lateral migration of contaminants; and
- Chemical attack of sulphates, unfavourable pH conditions and hydrocarbons, if present in made ground deposits.

4.5. Pollutant Linkages

A qualitative assessment of the potential risks to receptors has been made based on the sources and pathways identified above. It should be noted that this assessment is based solely on desk study information and may require to be revised following any subsequent site investigation works or as additional information becomes available.

4.6. Human Health

A source-pathway-receptor linkage may be created during construction of the Bypass.

Earthworks cuttings up to 20m are anticipated in order to construct the road pavement foundation. Construction workers may, therefore be exposed to potentially contaminated material through direct contact with soils, inhalation of vapours and dust or through the ingestion of soils and dust. This potential linkage should, therefore, be investigated.

Construction of the road pavement will essentially cap any potentially contaminated soils along the extents of the scheme, limiting the potential for exposure to these soils should they exist. The risk to site operatives involved in the maintenance and upkeep of the road are, therefore considered low. Human health pollutant linkages are not considered to be present in the context of future use of the site.

4.7. The Water Environment

If contaminants are present in shallow soils, a pollutant linkage may exist through the mechanism of leaching and downwards/lateral migration to groundwater in these deposits and also to nearby surface water features that are in hydraulic continuity with the shallow deposits,

4.8. Construction Materials

Construction materials following the construction of the bypass could be susceptible to attack should particular contaminants be present at the site,

5. Preliminary Engineering Assessment

5.1. General

The proposed bypass is located to the north of Maybole, tying in to the existing A77 at Broomknowles farm approximately 400 m to the west of the town and immediately to the south of Bankend Bridge approximately 3.5 km northeast of the town.

A review of the available historic borehole records together with published geological information suggests the following sequence of strata at the site:

- Topsoil;
- Glacial Till; and
- Bedrock.

However, the available geology plans indicate that localised alluvial deposits may be present near the northern tie-in. In addition, localised pockets of made ground associated with road construction may be present at the tie-ins with the A77 and where the minor roads (B7024, Kirklandhill Path, Gardenrose Path and B7023) cross the scheme.

5.2. Embankments

5.2.1. Stability

Ground conditions over the majority of the scheme are expected to comprise glacial till in which case no stability issues are anticipated where the embankments are founded within this material. This should be confirmed by the ground investigation.

However, an area of alluvial deposits may be present near the northern tie-in with the existing A77. The nature and depth of the alluvial deposits is not known but given the likely compressible nature of such material the embankment along this section may not be stable at full construction height without the need for additional works. Options could include removal and replacement of the poor quality material (dependant on the depth to competent strata), basal reinforcement or staged construction.

The extent, nature and depth of any alluvial deposits should be determined during the ground investigation. Appropriate engineering measures should be confirmed after the ground investigation.

5.2.2. Settlements

Over the majority of the scheme, where embankments will be constructed on the natural glacial till, settlements are anticipated to be within acceptable limits. This should be confirmed after the ground investigation.

However, where embankments are underlain by alluvial deposits, anticipated settlements may be in excess of acceptable limits. Options could include removal and replacement of the poor quality material (dependant on the depth to competent strata), use of lightweight fill or pre-loading.

The extent, nature and depth of any alluvial deposits should be determined by the ground investigation. Appropriate engineering measures should be confirmed after the ground investigation.

5.2.3. Side Slopes

Permissible earthworks batters will be a function of the fill material utilised and the foundation soil properties. However, assuming that site won glacial till is utilised a general side slope of 1 in 2 to 1 in 2.5 may be assumed. This should be confirmed after the ground investigation.

5.3. Cuttings

5.3.1. Side Slopes

It is anticipated that the cuttings will be predominately constructed in glacial till. However, the historic exploratory hole information indicated that towards the north of the scheme, the base of the cutting may be in bedrock.

The depths of the cuttings vary over the length of the scheme, with a maximum depth of approximately 20 m. The permissible side slope angle will be a function of the cutting slope height, material type and groundwater level.

At this stage it may be assumed that a side slope angle of 1 in 2 will generally be acceptable. In areas of deep cutting or high groundwater level, a side slope angle of 1 in 2.5 or 1 in 3 may be necessary. This should be confirmed after the ground investigation.

5.3.2. Acceptability of site won material for reuse

A proportion of the site won material should be suitable for reuse within the engineered embankments. The exact percentage shall be confirmed after the ground investigation but it can reasonably be assumed at this stage that 60% to 70% of the glacial till may be acceptable. The remaining material may be suitable for reuse in landscaping areas.

5.3.3. Excavatabilty of rock

The historic exploratory hole information indicated that to the north of the scheme, the base of the cutting may be within bedrock, recorded to comprise weak to moderately weak sandstone.

The most common methods of excavating rock are scraping, ripping and digging for weak rocks and blasting for strong rocks. The level and nature of bedrock should, therefore be confirmed during the ground investigation, to allow a detailed assessment of the best method of excavating the material.

5.4. Road Pavement Design

The design of the capping layers will be dependent on the underlying material type. Based on the available information, the majority of the scheme will be constructed on engineered fill (forming new embankments), or on the underlying glacial till or on bedrock.

The CBR value for a new engineered fill will be dependent on the fill material utilised.

It is anticipated that the natural glacial till will have a CBR of 4% to 5% and the bedrock will have a CBR of 15%. However, this should be confirmed after the ground investigation.

5.5. Structures

Three new road bridges will be required to carry the B7024, Kirklandhill Path and Gardenrose Path across the proposed bypass. Based on the available information, it is anticipated that the structures will be founded within the glacial till. Assuming the material is encountered as firm to stiff and there are no abnormal loadings, normal spread foundations may be feasible. This should be confirmed after the ground investigation which should allow for the possibility of pile foundations being necessary.

5.6. Mineral Assessment

The available information indicates that the site lies outwith any areas of underground mining in coal or other minerals.

With the exception of an old sandstone quarry located to the east of Kirklandhill cottages, there is no evidence of any mineral extraction within the site or its immediate vicinity.

Based on the above it is considered that the mineral stability of the site is satisfactory.

5.7. Contamination Assessment

Based upon the historical land uses for the site and surrounding area, it is considered that the following contaminants may be present at the site:

- Pesticides and Herbicides
- Polyaromatic hydrocarbons (PAHs),
- Petroleum hydrocarbons (TPHs),
- Heavy metals,
- Sulphates and Sulphides; and
- Asbestos

It is recommended that a selection of soil, and where possible groundwater and surface water samples, are tested for a range of contaminants as part of the ground investigation works.

5.8. Other Considerations

Two of the historic exploratory holes (S111 and S108) recorded groundwater at depths of 2 mbgl and 2.5 mbgl. The potential presence of shallow groundwater could have an impact on the stability of the cutting slopes and the overall road drainage design. The depth of groundwater should be investigated fully during the ground investigation.

6. Geotechnical Risk Register

Using the tables 6, 7 and 8 (overleaf) it is possible to provide a qualitative figure for the various perceived geotechnical risks for the site.

A geotechnical risk register was compiled for the proposed bypass and is presented in Table 9 overleaf.

Using the equation: Risk = Likelihood x Impact

Several areas of geotechnical risk were identified for the site, these included:

Table 6: Likelihood

Likelihood (P)	
Very likely	5
Likely	4
Probable	3
Unlikely	2
Negligible	1

Table 7: Project Impact

Impact (I)		Time and Cost Impact	
Very high	5	>10 weeks on completion	> £1m
High	4	>1 week on completion	£100k to £1m
Medium	3	>4 weeks but <1 week on completion	£10k to £100k
Low	2	1 to 4 weeks on completion	£1k to £10k
Very low	1	<1 week to activity, none on completion	<£1k

Table 8: Project Impact

Risk (P x I)	Risk Rating	Response
13 to 25	Intolerable	Unacceptable
9 to 12	Substantial	Early attention
5 to 8	Tolerable	Regular attention
1 to 4	Trivial	Monitor

Table 9: Geotechnical Risk Register

		Before Control					
Risk No	Hazard/Risk	Likelihood	Impact	Risk	Consequence	Control Measure	Residual Risk
Ground Investigation Works							
1	Ground conditions differ to those anticipated.	2	2	4	Inappropriate equipment on site for ground investigation. Additional cost and delays to programme.	Carry out a thorough review of available information. Pass all appropriate information to site investigation contractor. Establish contingency plan for mobilising alternative equipment to site.	2
2	Encountering contaminated material.	2	3	6	Health and Safety implications. Additional cost and delays to programme.	Fully review all available information and pass on to the Contractor, ensure appropriate PPE is worn at all times. Ensure contamination contingency plan is available. Any visual or olfactory evidence of contamination to be recorded and appropriate personnel notified.	2
4	Encountering unrecorded buried utilities.	2	3	6	Health and Safety implications. Additional cost and time implications for repairs.	Review all available Utility records. Cable detectors to be used before any excavations are undertaken. Hand excavated inspection pits to be sunk at all exploratory holes locations prior to any excavations being undertaken.	2
5	Working on undulating land	4	2	8	Health and safety implications for site personnel. Inappropriate equipment on site for ground investigation, delay to programme and additional costs.	Liaise with site investigation contractor to ensure appropriate ground investigation techniques selected. If necessary set up level platform for drilling rig. Establish contingency for mobilising alternative equipment.	4
6	Encountering boulders within the glacial till	3	2	6	Difficulties drilling through strata. Inappropriate equipment on site for ground investigation. Additional cost and delays to programme	Carry out a thorough review of available information. Liaise with site investigation contractor to ensure appropriate ground investigation techniques selected. Establish contingency plan for mobilising alternative equipment to site.	3

		Before Control					
Risk No	Hazard/Risk	Likelihood	Impact	Risk	Consequence	Control Measure	Residual Risk
7	Working adjacent to/ on live carriageway	5	4	20	Health & Safety implications. Additional costs and delays to programme	Ensure adequate traffic management systems are in place prior to any excavation works being undertaken.	5
Construction Works							
8	Ground conditions differ to those anticipated/ unforeseen ground conditions.	2	3	6	Inappropriate equipment on site for construction works. Possible redesign of proposed foundation and earthworks. Additional cost and delays to programme.	Carry out thorough site investigation and review available information to develop robust ground model. Pass all appropriate ground investigation information to appointed contractor.	3
9	Insufficient bearing capacity / excessive settlement of embankments and structural foundations during construction	2	3	6	Delays for design and construction of remedial works. Additional cost.	Develop robust ground model. Adopt appropriate design parameters and adequate factors of safety.	2
10	Encountering localised contaminated material.	2	2	4	Health and safety implications for site personnel. Additional costs and delays to programme whilst contamination is quantified and remedial measures implemented.	Pass all appropriate ground investigation information to appointed contractor. Any visual or olfactory evidence of contamination to be recorded and appropriate personnel notified. Remedial works. Appropriate PPE to be worn.	2
11	Presence of boulders/ obstructions within glacial till	2	3	6	Difficulties in excavating cuttings and structural foundations. Additional cost and delays to the programme.	Carry out thorough site investigation and review available information to develop robust ground model Pass all appropriate information to appointed contractor. Correct plant on site.	3
12	Chemical attack on buried structural elements.	2	3	6	Premature degradation and failure of buried elements.	Adequate laboratory testing to determine appropriate protection measures.	3
13	Encountering unrecorded buried utilities.	2	2	4	Health and Safety implications. Additional cost and delays to programme.	On-going consultations with utility companies during design process. Pass all appropriate information relating to utilities to design team and appointed contractor. All known utilities to be identified prior to construction works commencing.	2

		Before Control					
Risk No	Hazard/Risk	Likelihood	Impact	Risk	Consequence	Control Measure	Residual Risk
14	Stability of cutting slopes	3	3	9	Health & Safety implications for site personnel. Cost and time implications for remedial works.	Carry out thorough ground investigation and review of available information to formulate robust ground model. Adopt appropriate design parameters and adequate factors of safety.	3
15	Stability of temporary excavations	2	3	6	Works disturbing excavations and causing movement. Health & Safety implications for site personnel. Cost and time implications for repairs.	Ensure excavations are inspected by site personnel, reinforced if necessary and the perimeter is fenced off.	2
16	Shallow groundwater or perched groundwater.	2	2	4	Inappropriate equipment on site. Implications for design. Cost and time implications.	Carry out thorough ground investigation and review of available information to formulate robust ground model. Pass all information to contractor. Establish contingency plan for mobilising dewatering equipment.	2
17	Working adjacent to/ on live carriageway	5	4	20	Health and safety implications for site personnel.	Ensure appropriate traffic management system is put in place before works commence. Ensure appropriate construction techniques are selected.	5

7. Proposed Ground Investigation Works

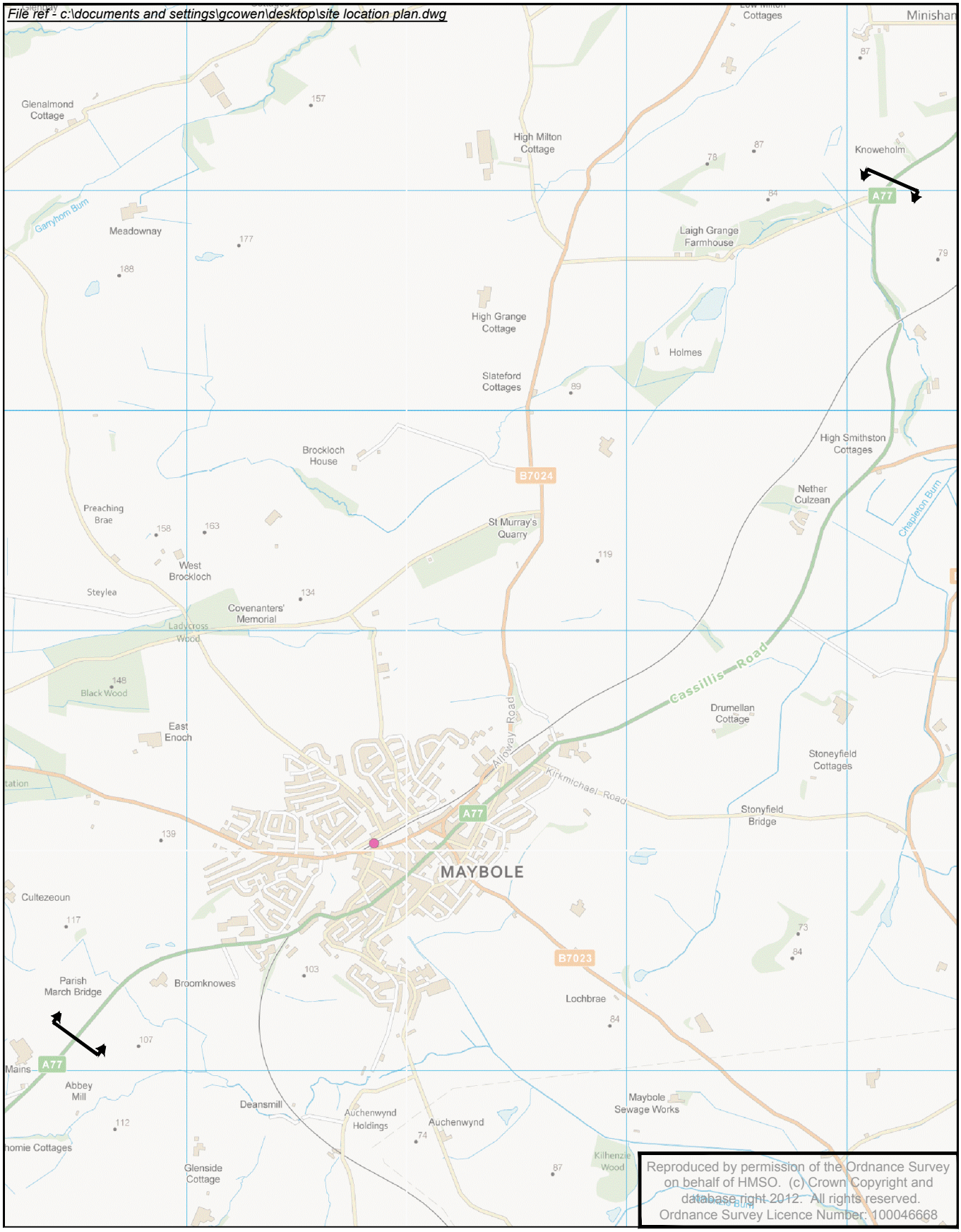
In order to determine the most suitable earthworks design and foundation solutions for the construction of the A77 Maybole Bypass, it is proposed to undertake detailed ground investigation works at the site, as detailed below.

- 52 No hand dug inspection pit at the location of the boreholes to determine the presence of any underground utilities. The inspection pit will not exceed 1.2m depth below ground level;
- 52 No cable percussion boreholes with in-situ testing to provide geotechnical information on the superficial deposits. Recovered soil samples shall be forwarded for geotechnical and environmental testing;
- 10 No rotary follow on boreholes to prove bedrock depth and cores for geotechnical testing
- Installation of 20 No groundwater monitoring standpipes/ piezometers;
- 50 No machine excavated trial pits, excavated at selected locations throughout the route of the proposed bypass, to a depth of 4.5m in order to provide geotechnical information on the natural soils beneath the site. Recovered soil samples shall be forwarded for geotechnical and environmental testing;
- 21 No machine excavated trial pits, excavated at the proposed SUDs pond locations, to a depth of 4.5m, in order to provide geotechnical information on the natural soils. Recovered soil samples shall be forwarded for geotechnical and environmental testing;
- Laboratory analysis of soil samples for a range of geotechnical and environmental testing. The actual testing schedule will be determined following completion of the exploratory hole, however at this stage it is anticipated to comprise the following:
- Geotechnical (soil): natural moisture content, Atterberg limits, particle size distribution, undrained triaxial compression, consolidated undrained triaxial compression test with measurement of porewater pressure, one dimensional consolidation, Moisture Condition Value (MCV), pH and sulphate;
- Geotechnical (rock): uniaxial compressive strength (UCS) and point load tests;
- Environmental (soil): arsenic, cadmium, chromium, nickel, zinc, lead, mercury, selenium, water soluble boron (WSB), iron, hexavalent chromium, total cyanide, free cyanide, total sulphate, sulphide, total sulphur, pH, total organic carbon and asbestos, PAH, TPH, pesticides and herbicide.
- Environmental (leachate/groundwater): arsenic, cadmium, chromium, hexavalent chromium, lead, mercury, selenium, nickel, copper, zinc, boron, iron, cyanide, sulphur, sulphide, sulphate, ammonia, nitrogen, PAH, TPH, pesticides and herbicides.

It should be noted that all intrusive works will be undertaken in accordance with BS EN 1997-1:2004 Eurocode 7: Geotechnical design - Part 1 / BS EN 1997-2:2007 Eurocode 7: Geotechnical design - Part 2:2007 together with UK National Annex to Part 1 / Part 2 and BS 10175:2011 Investigation of potentially contaminated sites – Code of practice.

Appendix A

Figures and Drawings



Rev	Revision details	Chkd	Appd	Date

Drawn: GC	
Design: GC	
Chkd: SC	
Appd: SC	
Date: 21/08/12	

Preliminary	✓
For comment	
For tender	
For construction	
As constructed	
Other	

Project Name
A77 Maybole Bypass

Drawing Title
Scheme Location Plan

Original Drg Size : A4	Dimensions : N/A
Scale : No Scale	Copyright © Amey

Client

Drawing No	Rev
CON-HW/2500182/DOC-008/001	P0

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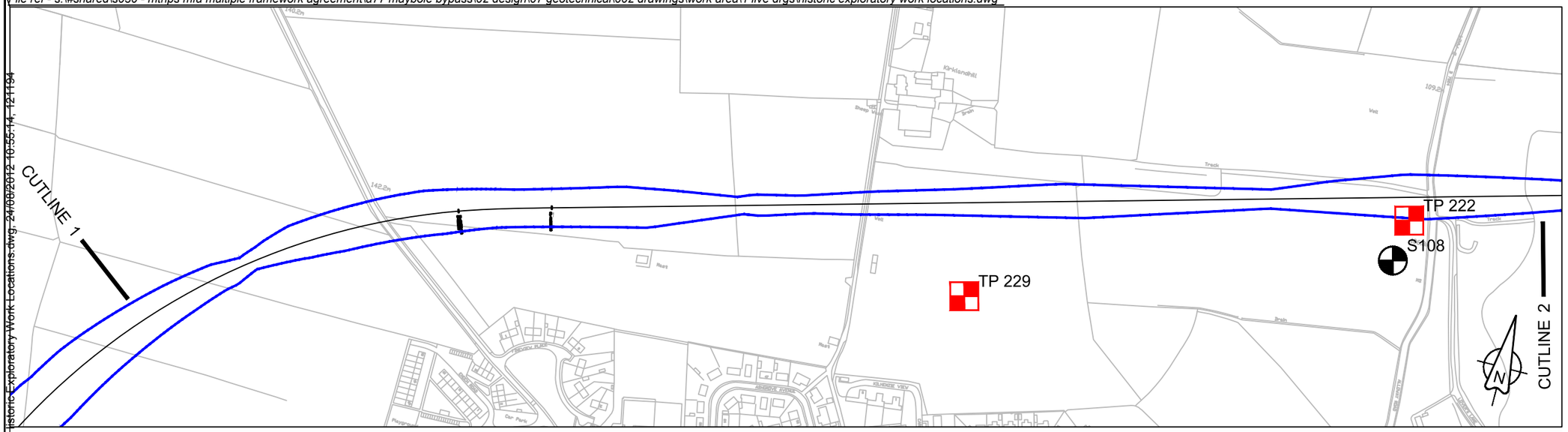
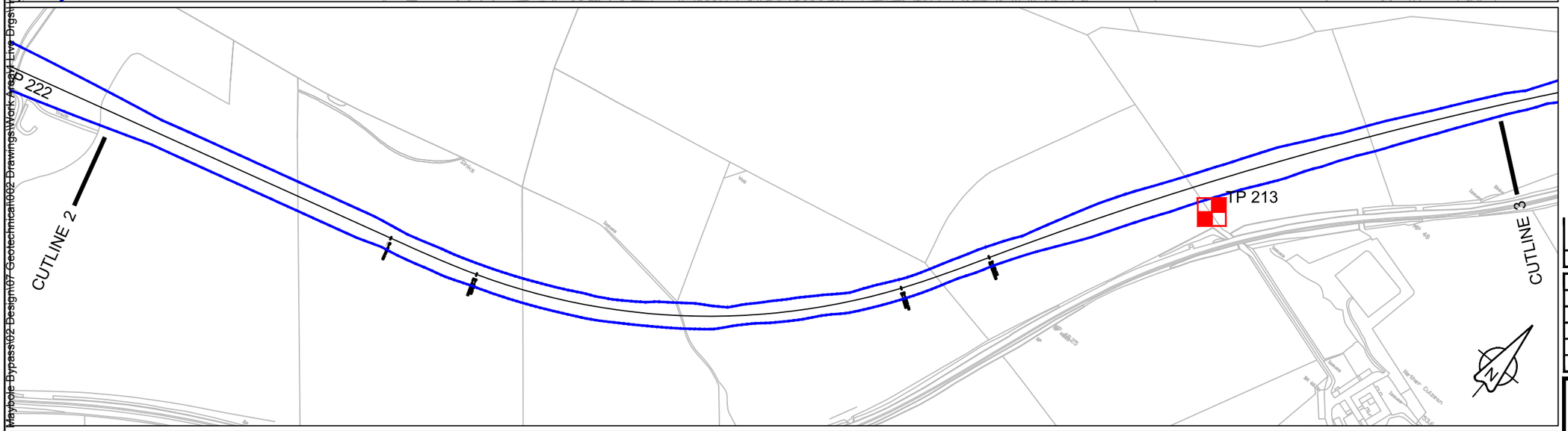
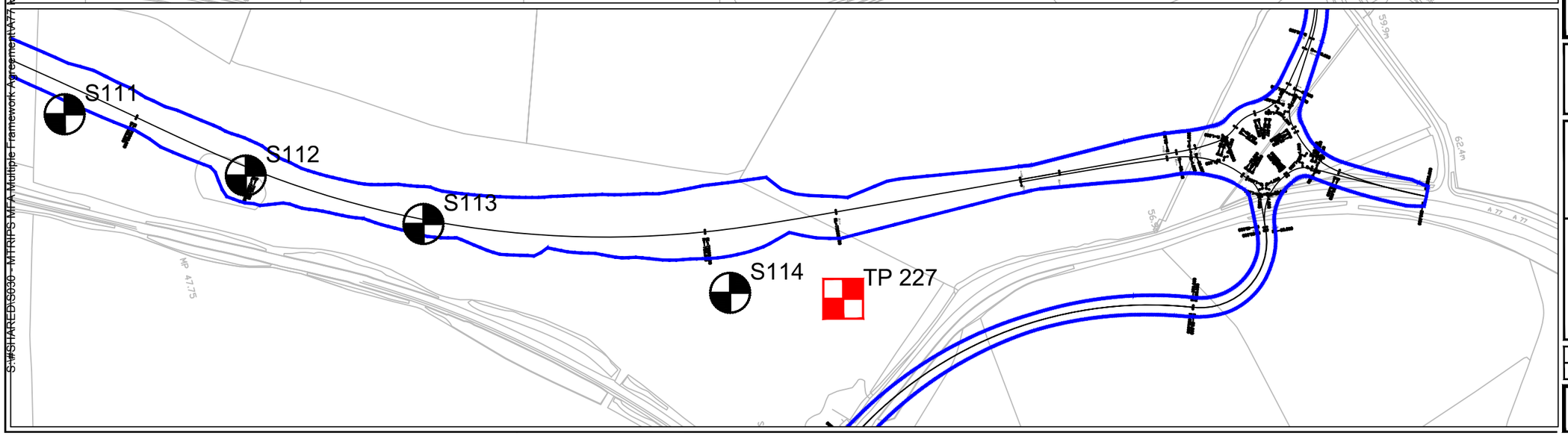






KEY

TP — Trial Pit

BH — Borehole

Bypass route boundary

Rev	Revision details	Chkd	Appd	Date

Drawn: GC	Preliminary
Design: GC	For comment
Chkd: SC	For tender
Appd: SC	For construction
Date: 21/08/12	As constructed
	Other

Client: Transport Scotland

Project Name: A77 Maybole Bypass

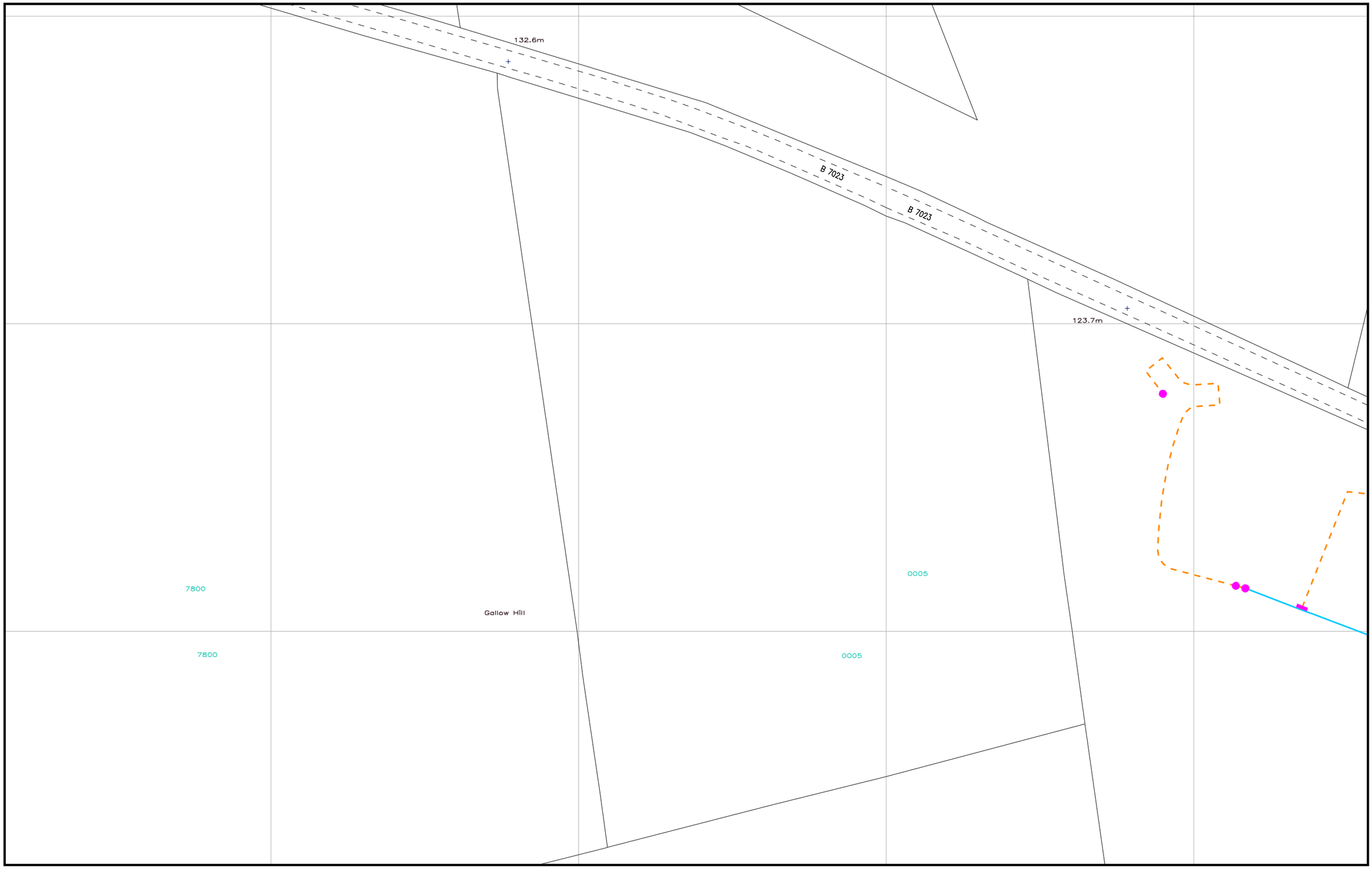
Drawing Title: Historical Exploratory Works

Original Drg Size : A3	Dimensions : -
Scale : 1:5000	Copyright © Amey

Drawing No	Rev
CON-HW/2500182/DOC-009/002	P0

Appendix B

Correspondence Received from Utility Companies



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The representation of physical assets and the boundaries of areas in which Scottish Water and others have an interest does not necessarily imply their true positions. For further details contact the appropriate District Office.

Date Plotted: 05/07/2012

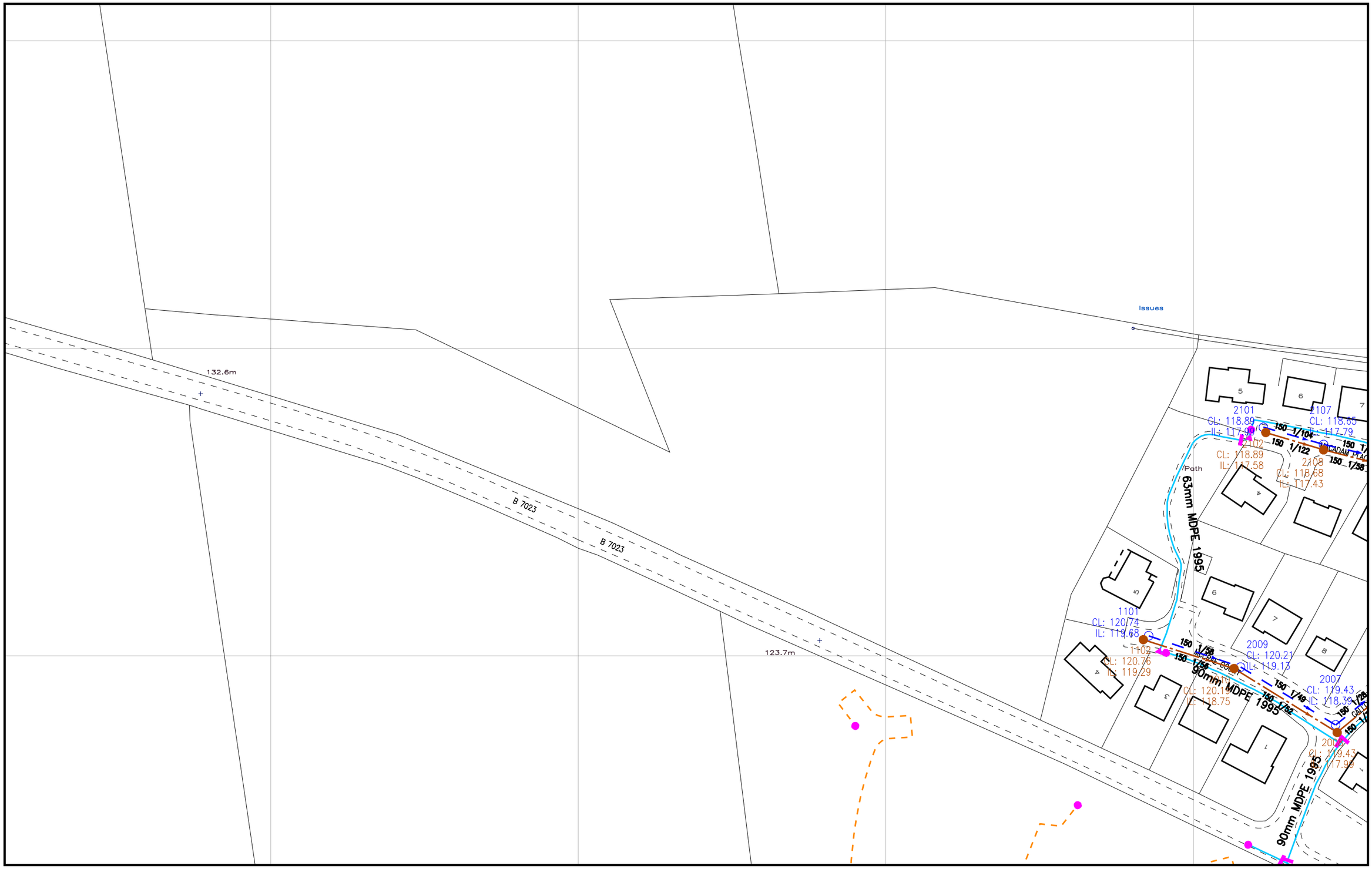
A77 Maybole Bypass

0 118 metres

Scale: 1:1250

Plotted By: ameyeu01

Scottish Water
Always serving Scotland
CHIEF EXECUTIVE: RICHARD K ACKROYD
Castle House, 6 Castle Drive, Dunfermline, KY11 8GG



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Date Plotted: 05/07/2012

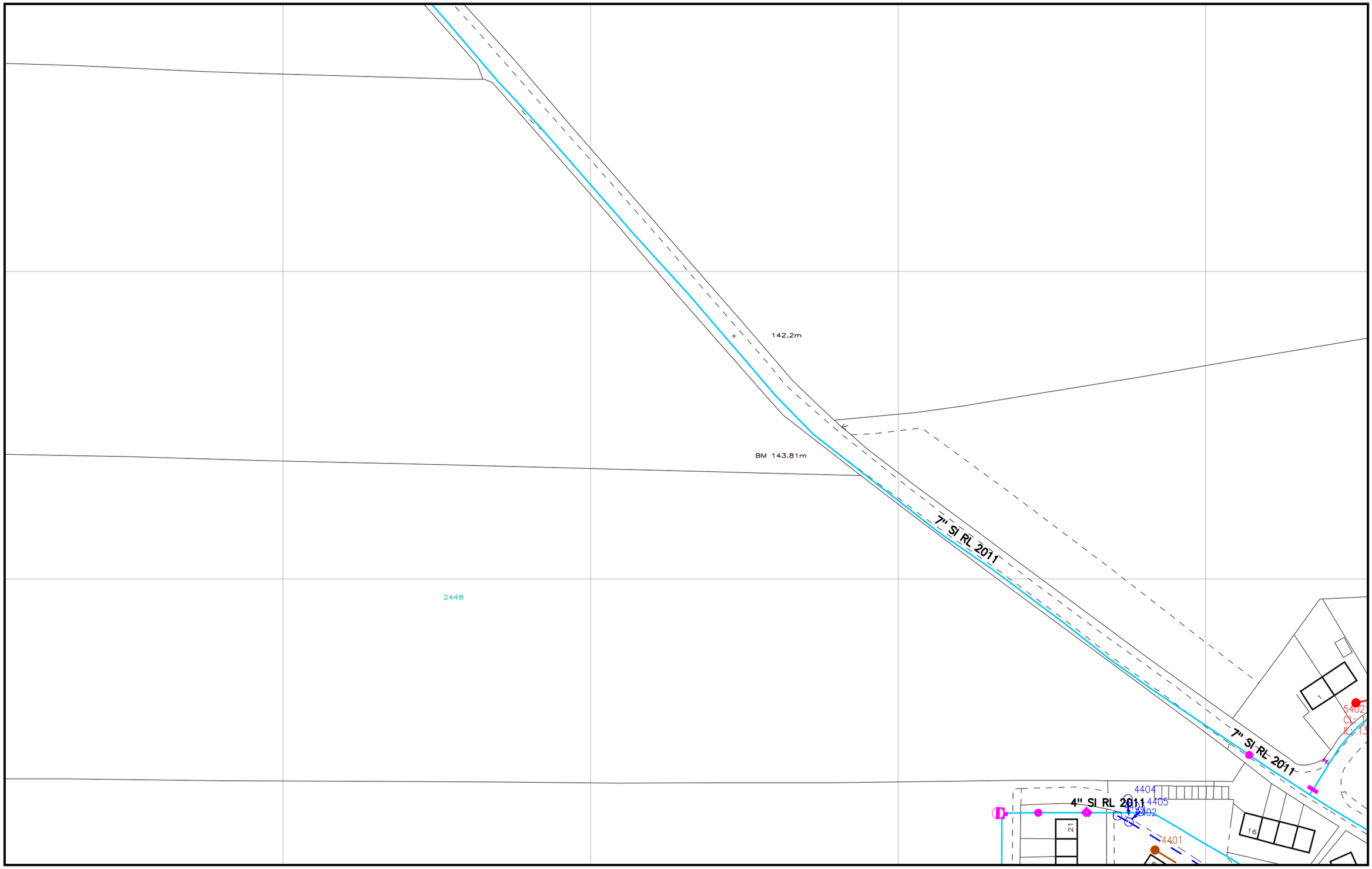
A77 Maybole Bypass

0 — 118 metres

Scale: 1:1250

Plotted By: ameyeu01

Scottish Water
Always serving Scotland
CHIEF EXECUTIVE: RICHARD K ACKROYD
Castle House, 6 Castle Drive, Dunfermline, KY11 8GG



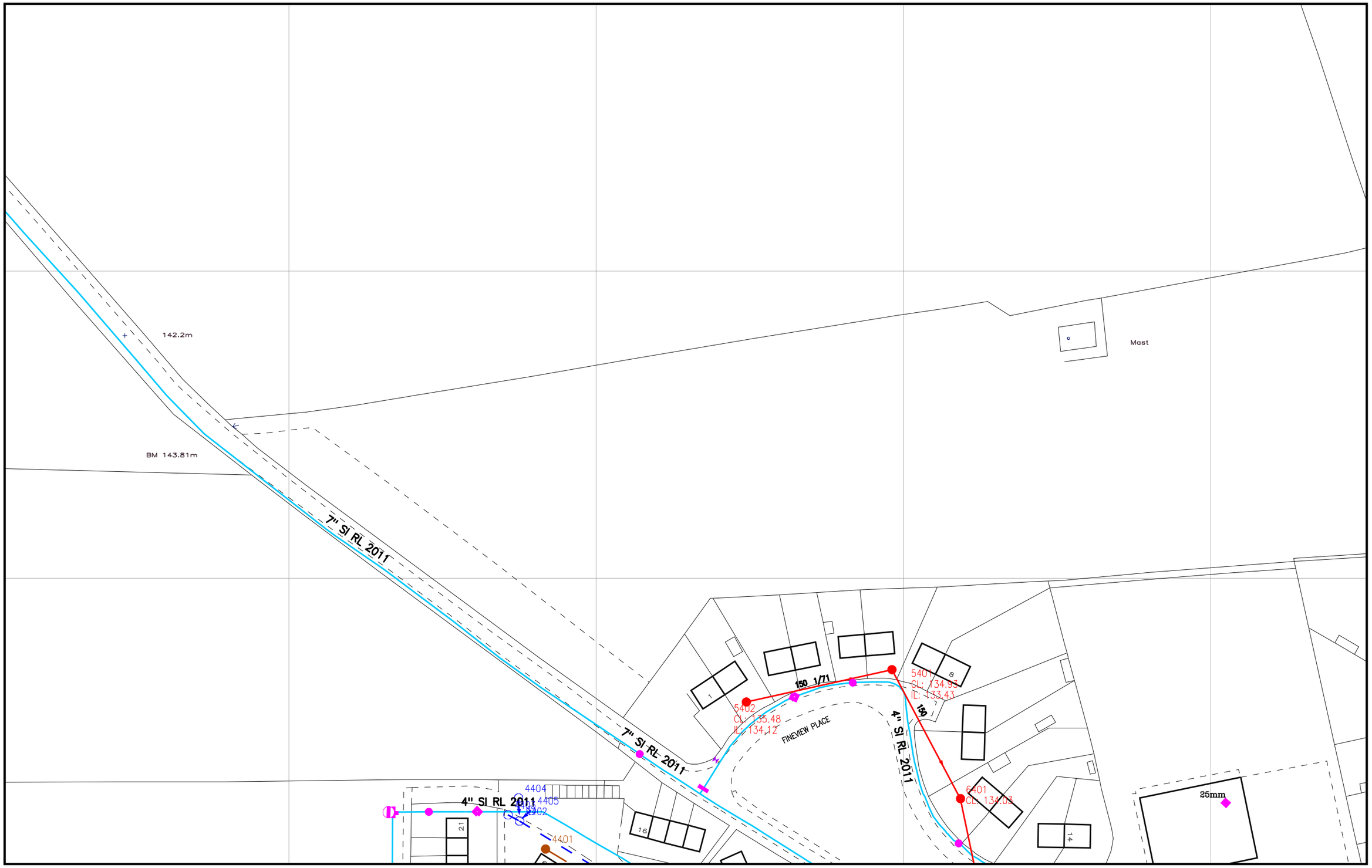
A77 Maybole Bypass

0 — 118 metres

Date Plotted: 05/07/2012

Scale: 1:1250

Plotted By: ameyeu01



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Date Plotted: 05/07/2012

A77 Maybole Bypass

0 — 118 metres

Scale: 1:1250

Plotted By: ameyeu01

Scottish Water
Always serving Scotland
CHIEF EXECUTIVE: RICHARD K ACKROYD
Castle House, 6 Castle Drive, Dunfermline, KY11 8GG

N

Playing Field W E

S

8

Cattle Grid

BROOMKNOWES FM SECTIONALISERS 9 (10.5m x Stout)

Ponds

10 (10m x Stout)

94.8m

1 (10.5m x Medium)

A 77

KIRKOSWALD NO.1A 11 (10m x Stout)

BROOMKNOWES FM MAYBOLE 2 (10m x Medium)

12 (11m x Stout)

Parish March Bridge

13

MS

Tank

Broomknowes

MS

Track

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On behalf of SP Distribution Ltd & SP Transmission Ltd

Information about apparatus given on this drawing is indicative only as the original depths and lines of cables and pipes may have been changed by persons unknown. Normally electricity cables are laid in trenches between 450mm and 1m deep, but cellars or structures such as bridges may prevent cables and pipes being laid at these standard depths. Also, the depth may be above or below the standard due to regrading of the surface or other work after the cables are laid. Where known, non-standard depths are indicated. Any interference with, or damage to, ScottishPower apparatus may result in serious accident. Health and Safety Executive booklet HSG47 provides information on the avoidance of danger from underground services. Authorities and contractors will be held liable both for the full cost of repairs to ScottishPower apparatus and all claims made against ScottishPower by Third parties as a result of interference or damage. In the event of an emergency or should you require further assistance contact 0845 2727 999 (ScottishPower area) or 0845 272 2424 (SP Manweb area).

Scale: 1:1250

Date: 04/07/2012

Produced by:

Produced for:

X Coord: 228765

Y Coord: 609472

N
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6
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Playing
Field
Cattle Grid
BROOMKNOWES FM SECTIONALISERS
9 (10.5m x Stout)
Ponds
10 (10m x Stout)
94.8m
1 (10.5m x Medium)
A 77
KIRKOSWALD NO.1A
11 (10m x Stout)
BROOMKNOWES FM MAYBOLE
2 (10m x Medium)
12 (11m x Stout)
Parish March Bridge
13
MS

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On behalf of SP Distribution Ltd & SP Transmission Ltd

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Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

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218
111.6m
5
219
3 x 0.15 ACSR 33kV
6
220
111.1m
221

MP 48.25
SP

Well

Issues

Sinks

MP 48.5

SP

122

116
3 x 0.15 ACSR 11kV
117
118
119

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Date: 05/07/2012

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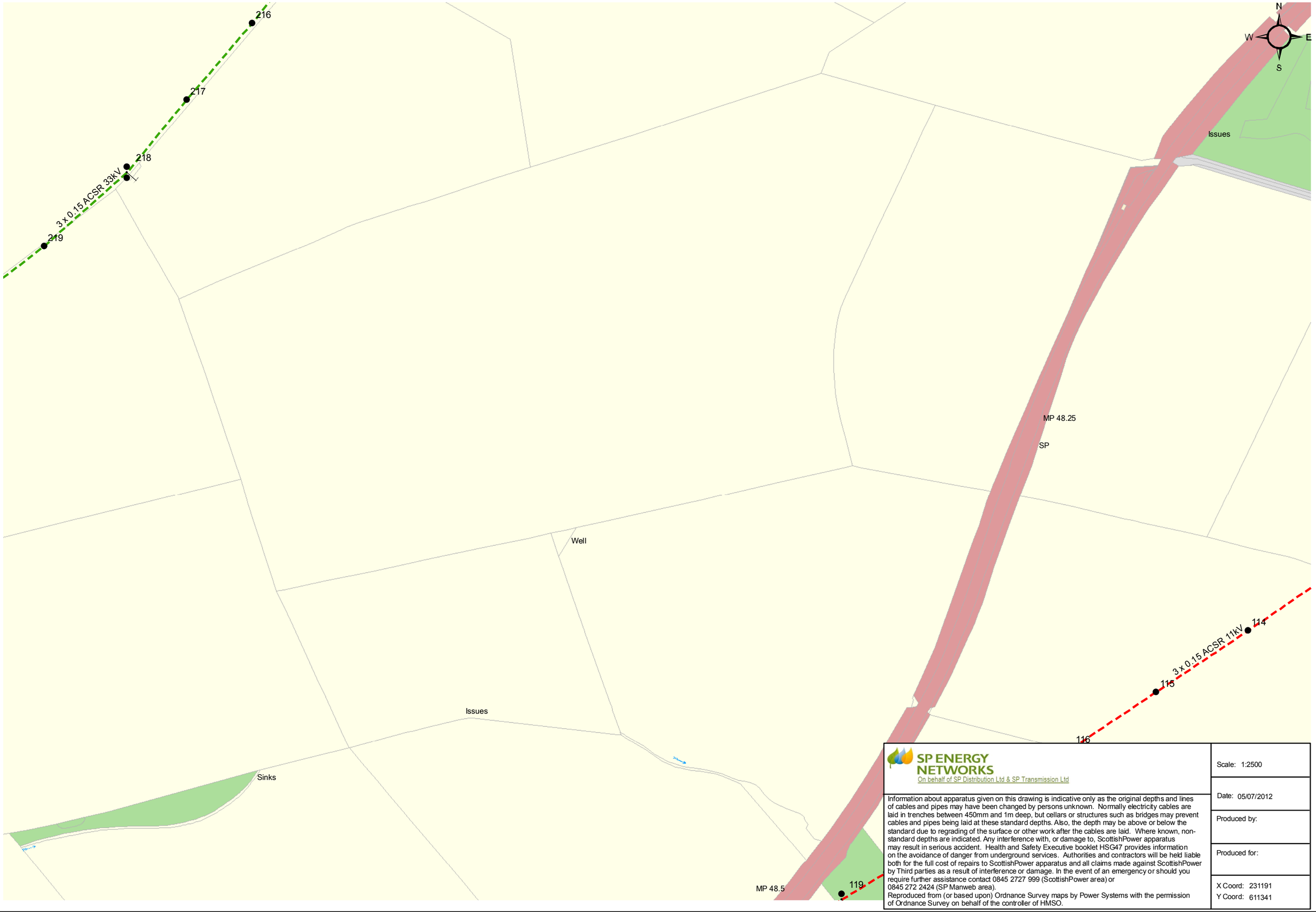

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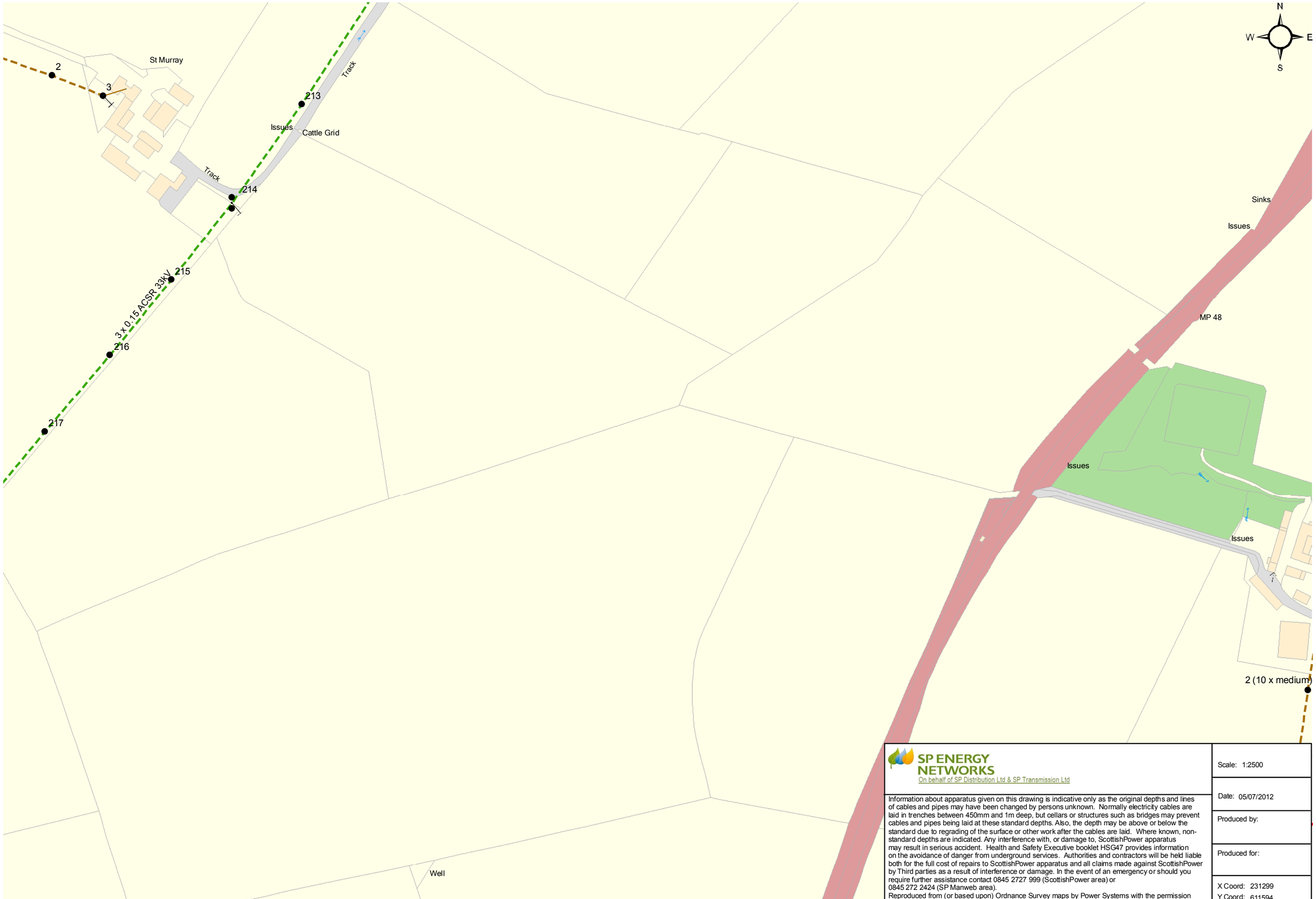

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On behalf of SP Distribution Ltd & SP Transmission Ltd

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Scale: 1:2500

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 231299
Y Coord: 611594

N
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207
208
209
210
211
212
213
214
3 x 0.15 ACSR 33kV
3 x 0.15 ACSR 33kV
3 x 0.15 ACSR 33kV
Track
Track
Issues
Cattle Grid
Sinks
Issues
MP 48
Iss

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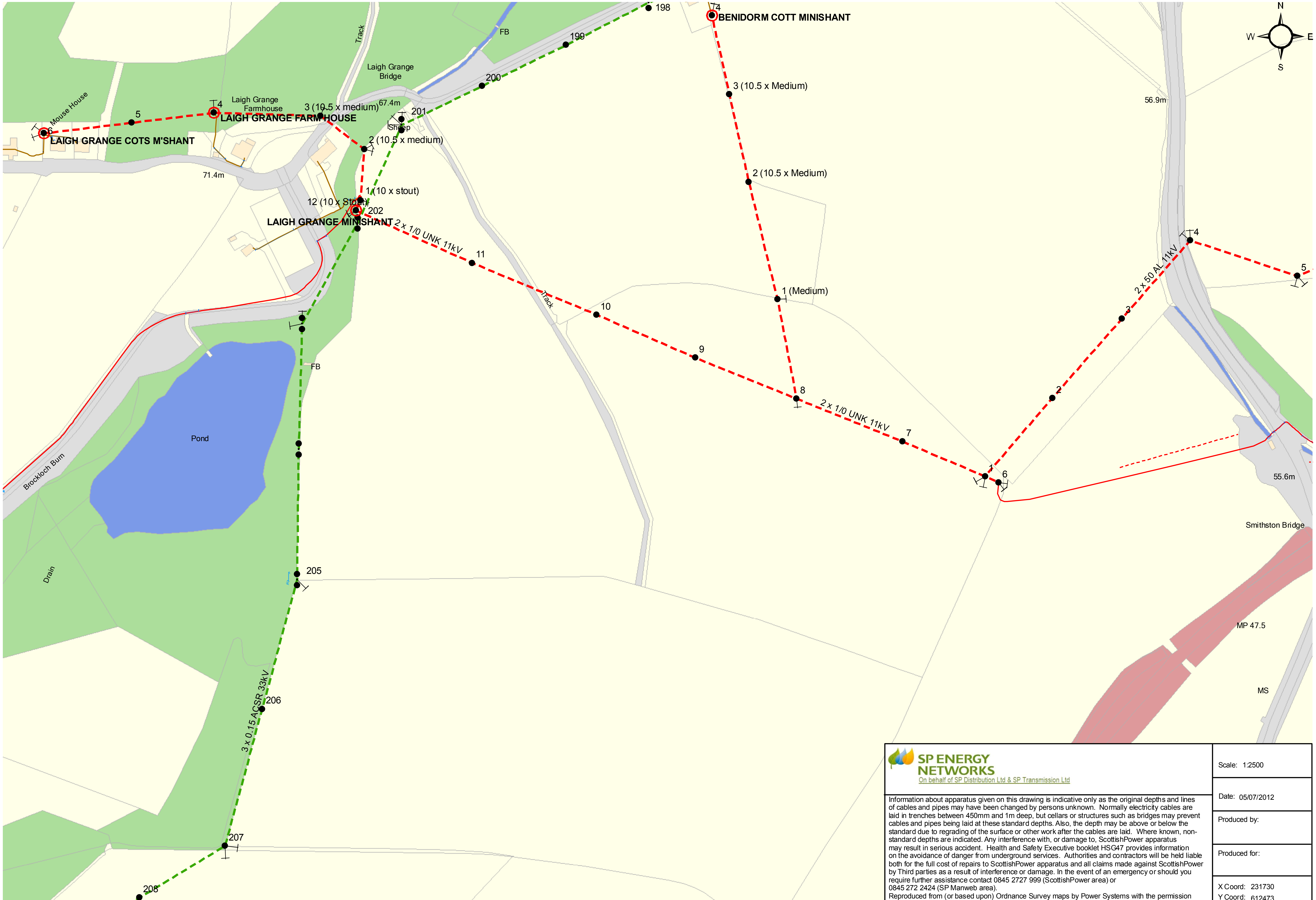

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On behalf of SP Distribution Ltd & SP Transmission Ltd

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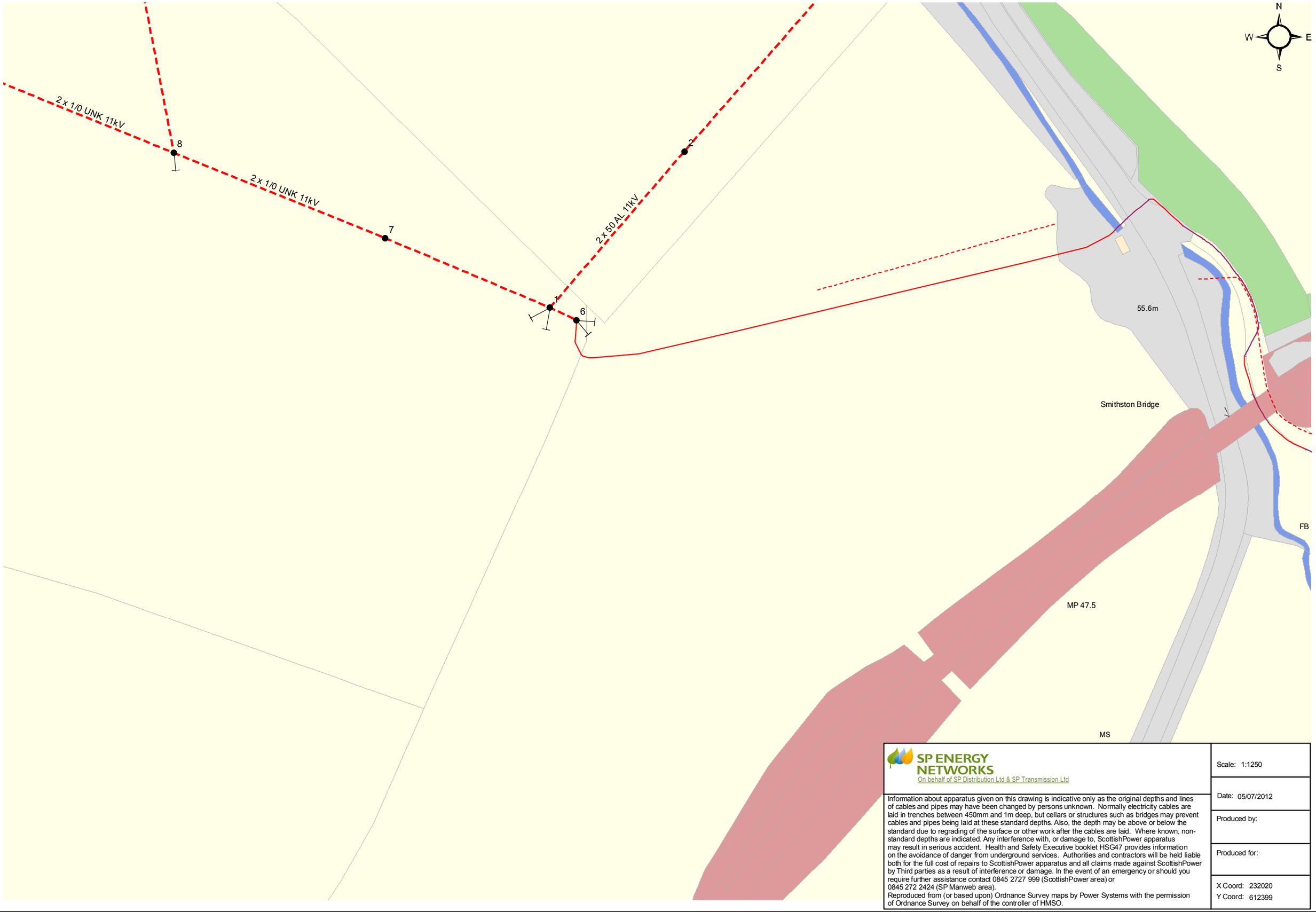

SP ENERGY NETWORKS
On behalf of SP Distribution Ltd & SP Transmission Ltd

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Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 232020
Y Coord: 612399

N
W
E
S

CELL SITE 7576 CORERISHILL

2 x 50 AL 11kV

2 x 1/0 UNK 11kV

55.6m

SP ENERGY NETWORKS
On behalf of SP Distribution Ltd & SP Transmission Ltd

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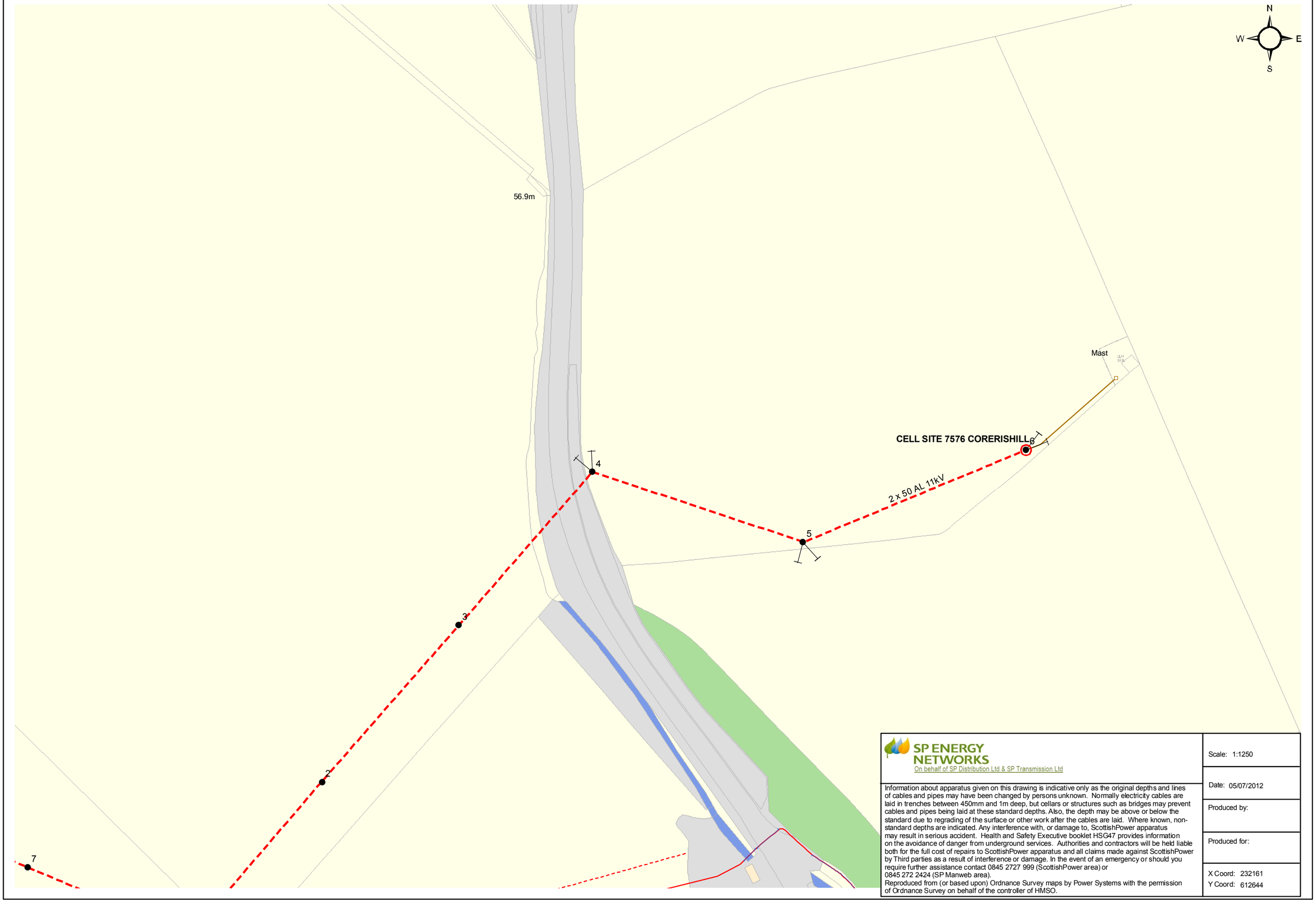
Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 232083
Y Coord: 612541



SP ENERGY NETWORKS
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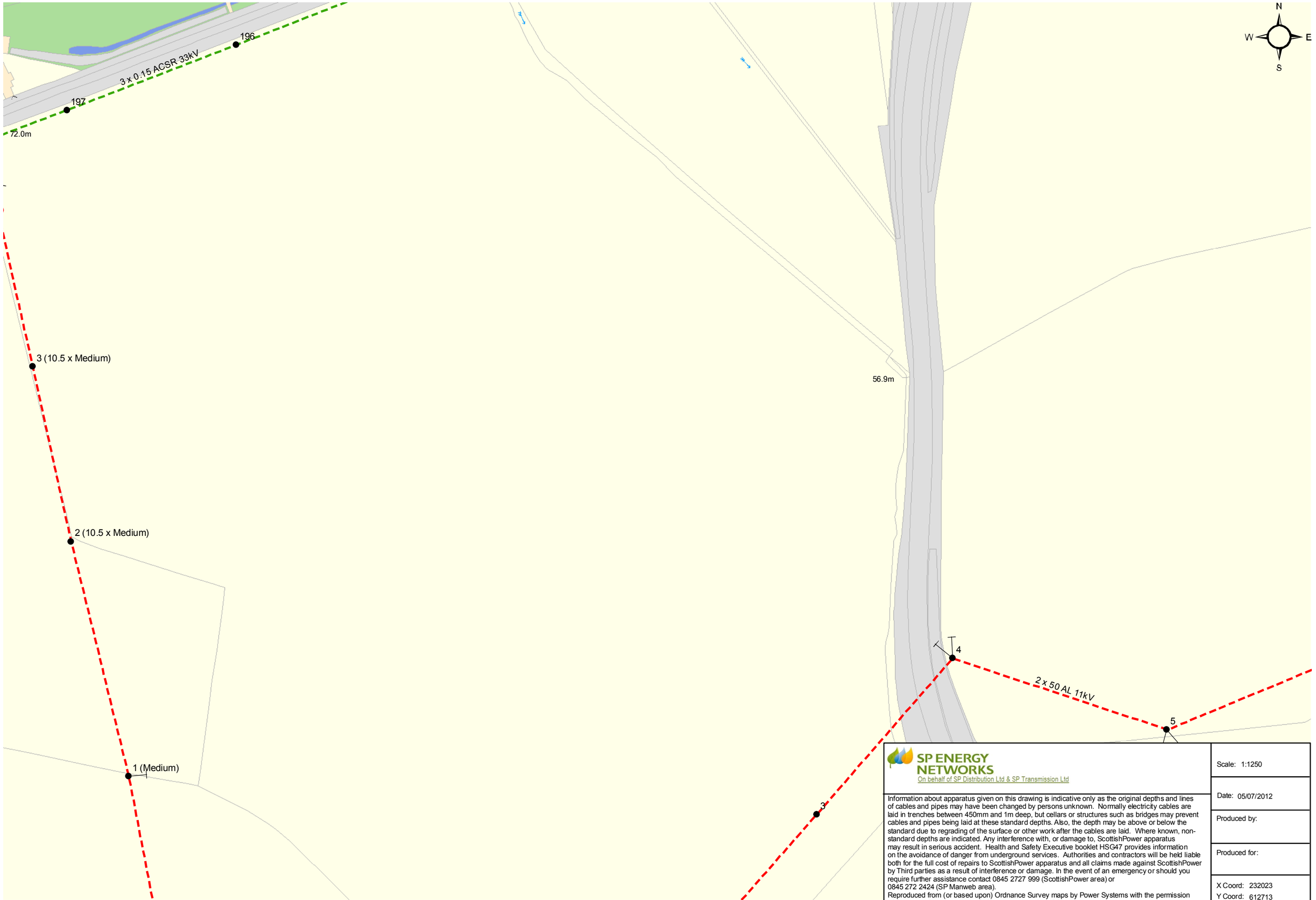
Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 232161
Y Coord: 612644



SP ENERGY NETWORKS
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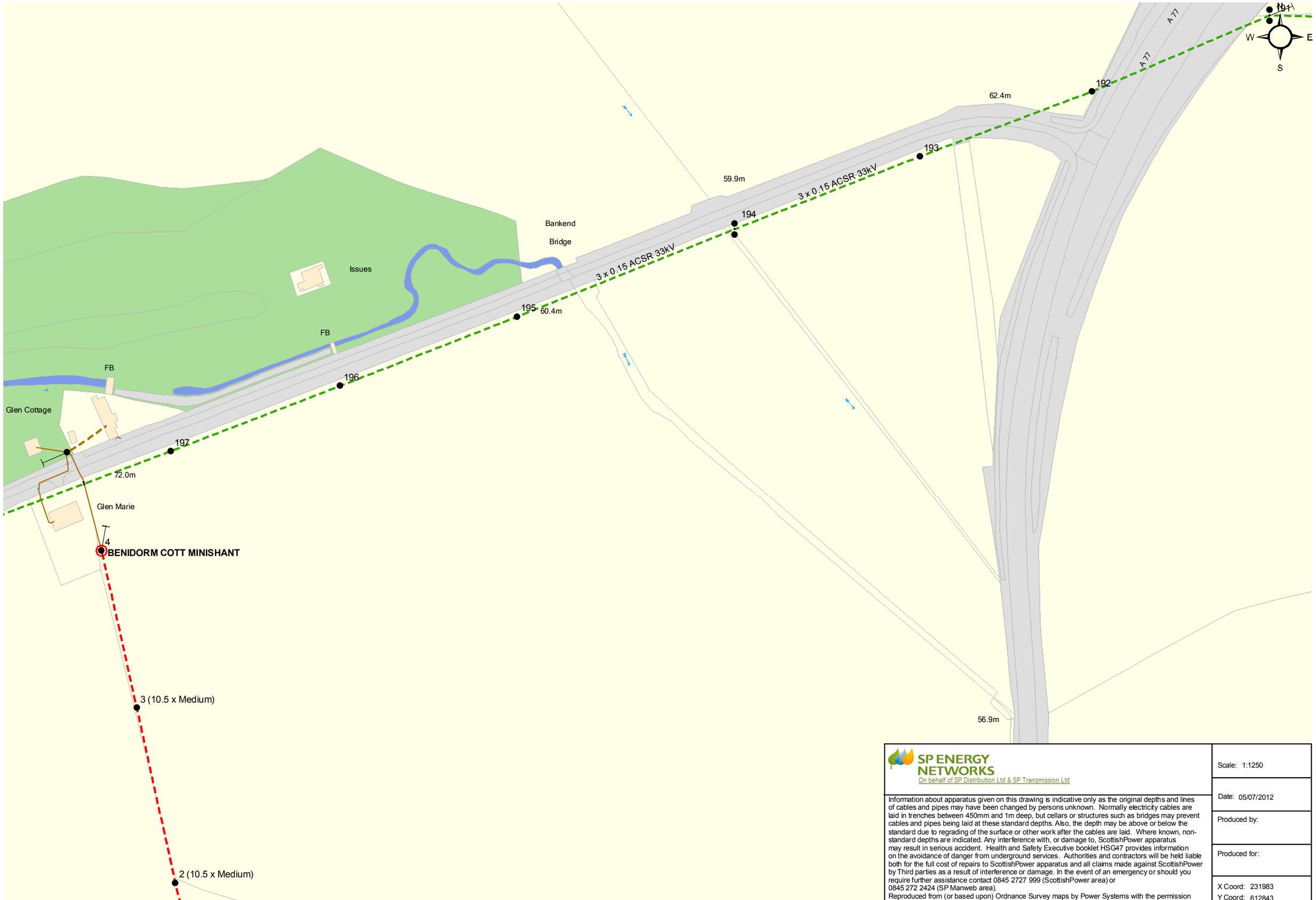
Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 232023
Y Coord: 612713



SP ENERGY NETWORKS
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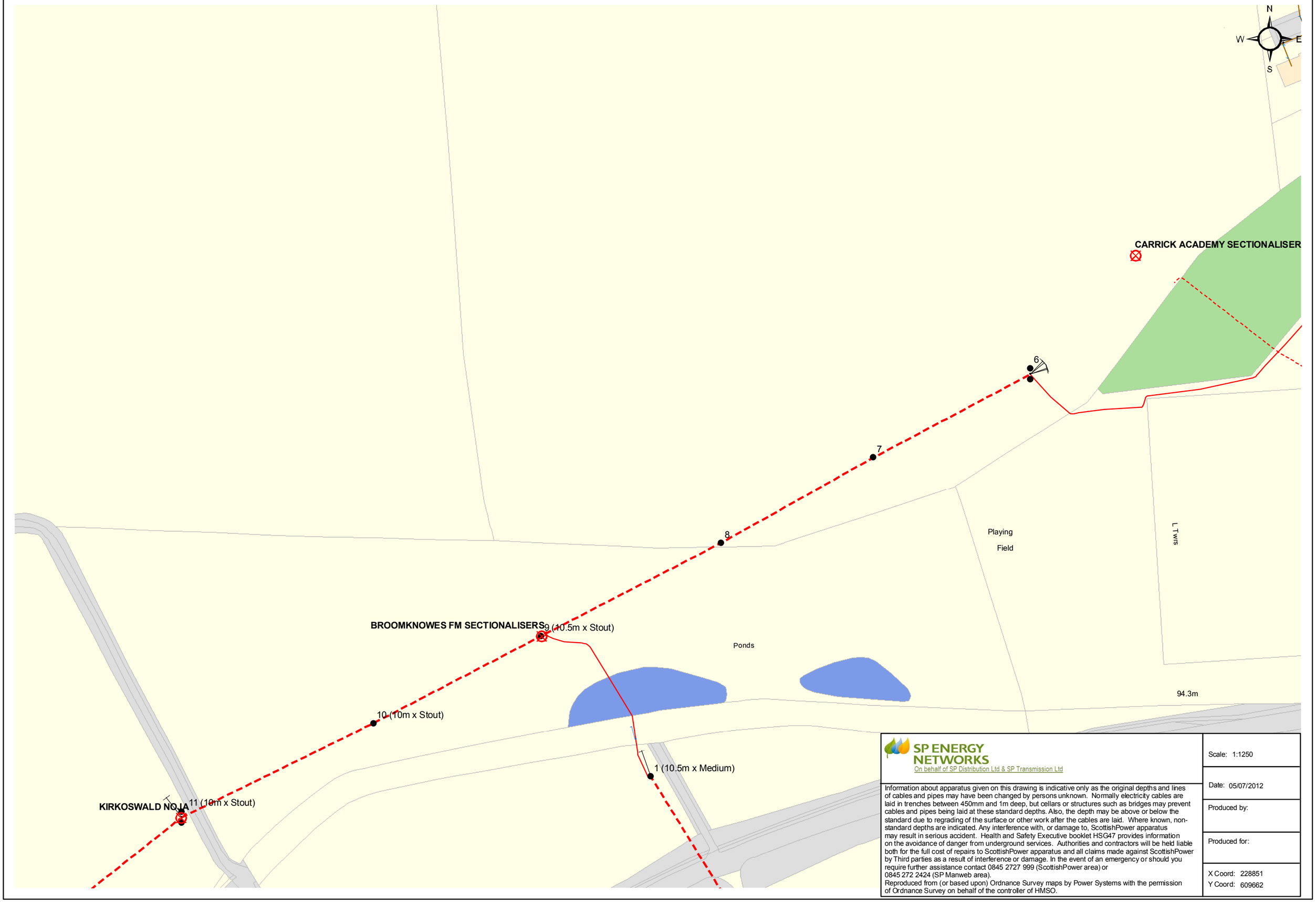
Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 231983
Y Coord: 612843



SP ENERGY NETWORKS
On behalf of SP Distribution Ltd & SP Transmission Ltd

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Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 228851
Y Coord: 609662

N
W
E
S

Issues

A 77

A 77

191

3 x 0.15 ACSR 33kV

190

192

62.4m

193

3 x 0.15 ACSR 33kV

59.9m

194

Bankend

Bridge

Issues

3 x 0.15 ACSR 33kV

195

60.4m

FB

196

SP ENERGY NETWORKS
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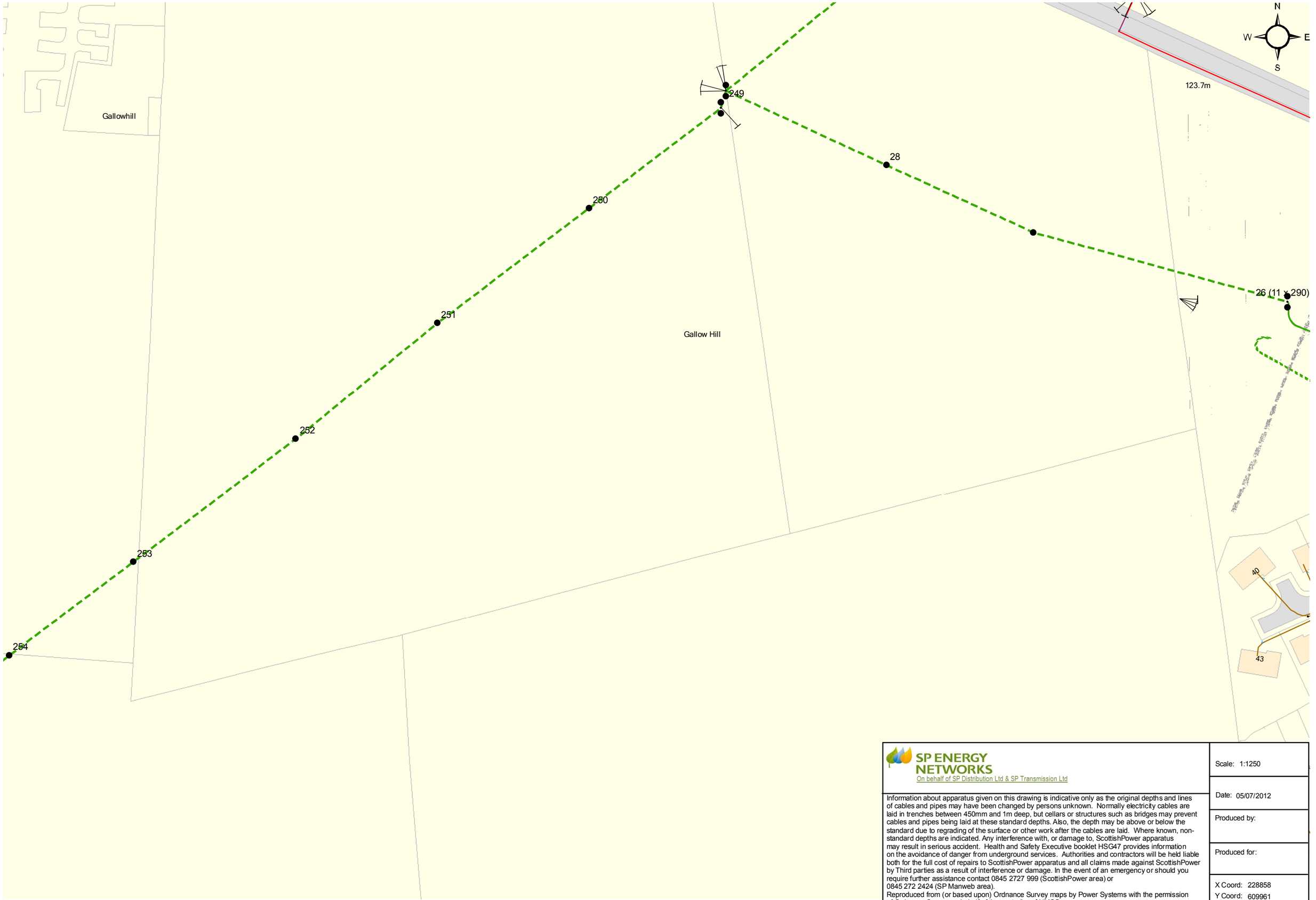
Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 232087
Y Coord: 612928



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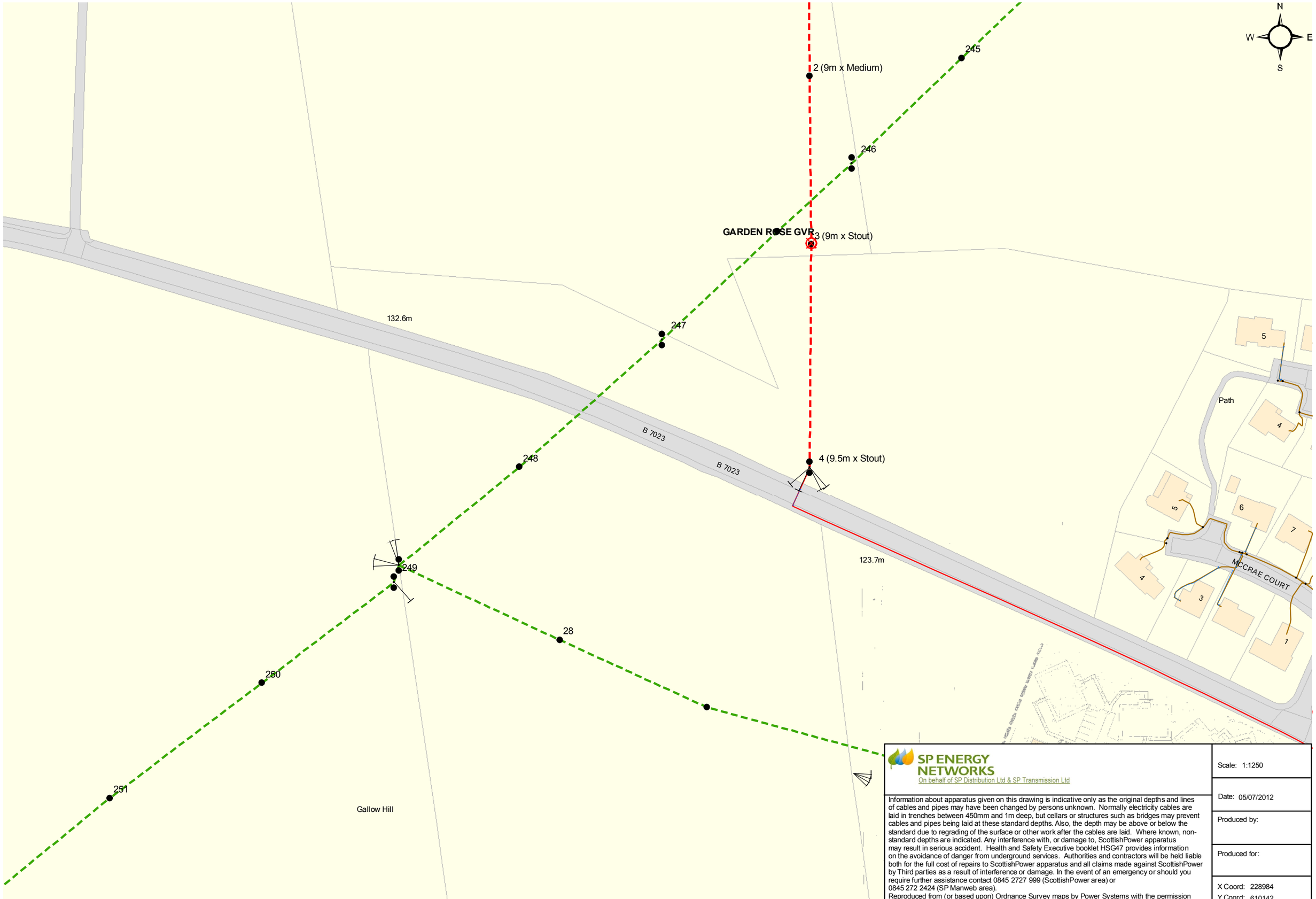
Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 228858
Y Coord: 609961



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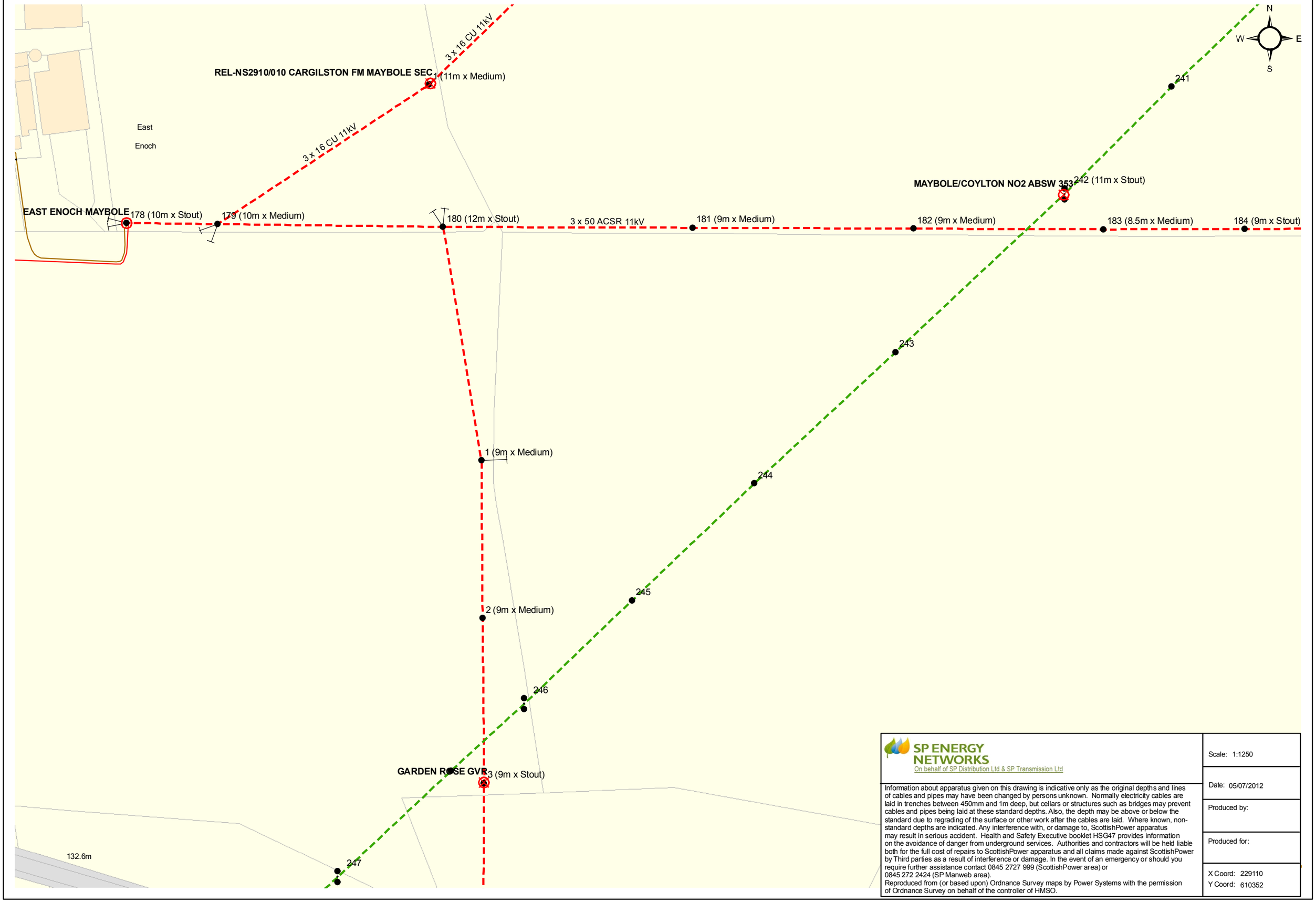
Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 228984
Y Coord: 610142



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Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 229110
Y Coord: 610352

N
W
E
S

8
7
140.2m
699 ABSW
6
5
4
3
3 x 16 CU 11kV
2 (11m x Medium)
142.2m
238
239
240
241
242 (11m x Stout)
MAYBOLE/COYLTON NO2 ABSW 353
3 x 50 ACSR 11kV
181 (9m x Medium)

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Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 229323
Y Coord: 610608

N
W
E
S

8
9
10
11
234
235
236
237
238
239
240
142.2m
Mast

SP ENERGY NETWORKS
On behalf of SP Distribution Ltd & SP Transmission Ltd

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Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 229592
Y Coord: 610674

N
W
E
S

1
2
3 (10m x Light)3
3 x 32 CU LV
11
12
13
Kirklandhill
Drain
Sheep Wash
230
231
3 x 0.15 ACSR 33kV
232
233
Well
234

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On behalf of SP Distribution Ltd & SP Transmission Ltd

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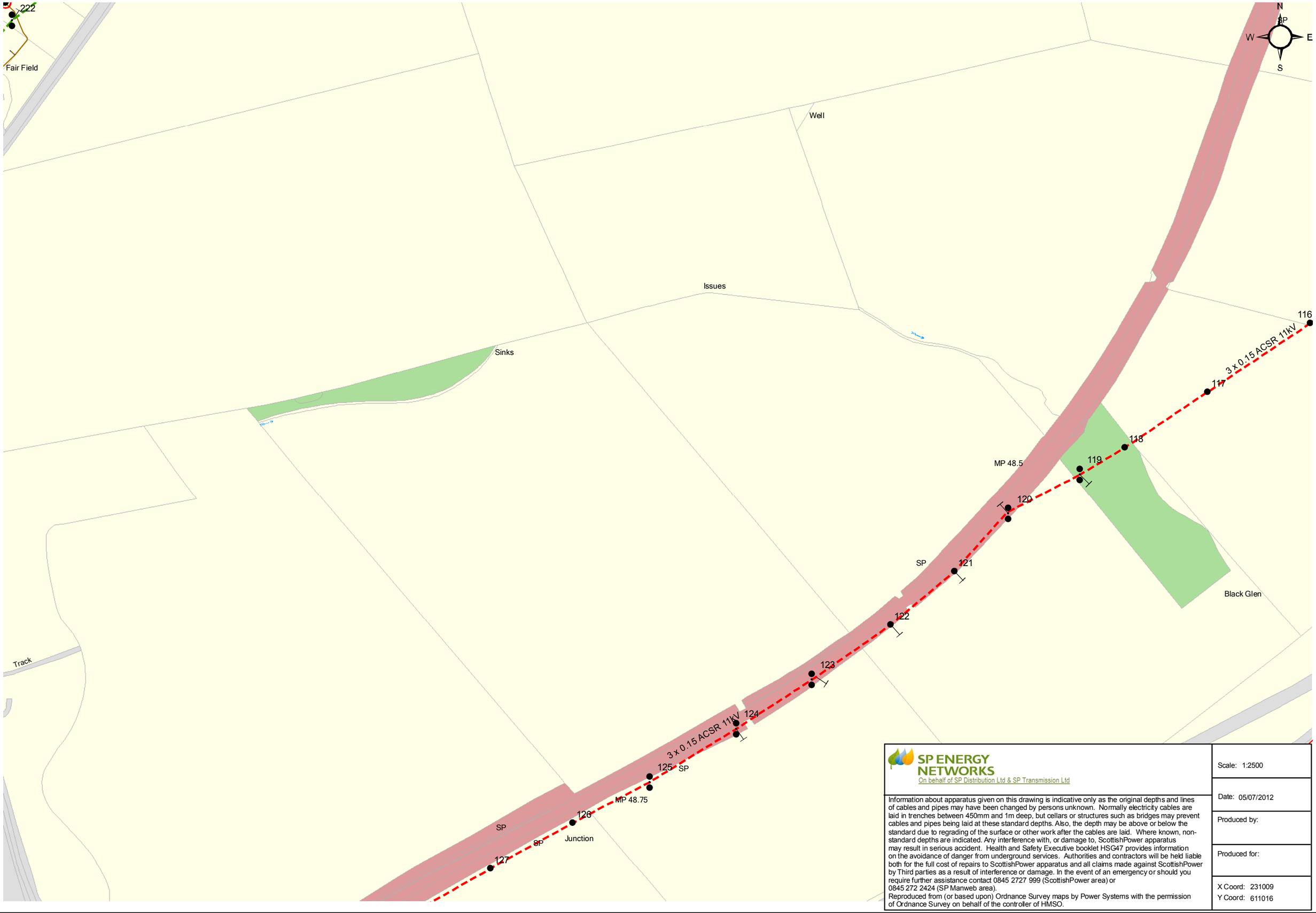
Scale: 1:1250

Date: 05/07/2012

Produced by:

Produced for:

X Coord: 229865
Y Coord: 610791



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Scale: 1:2500

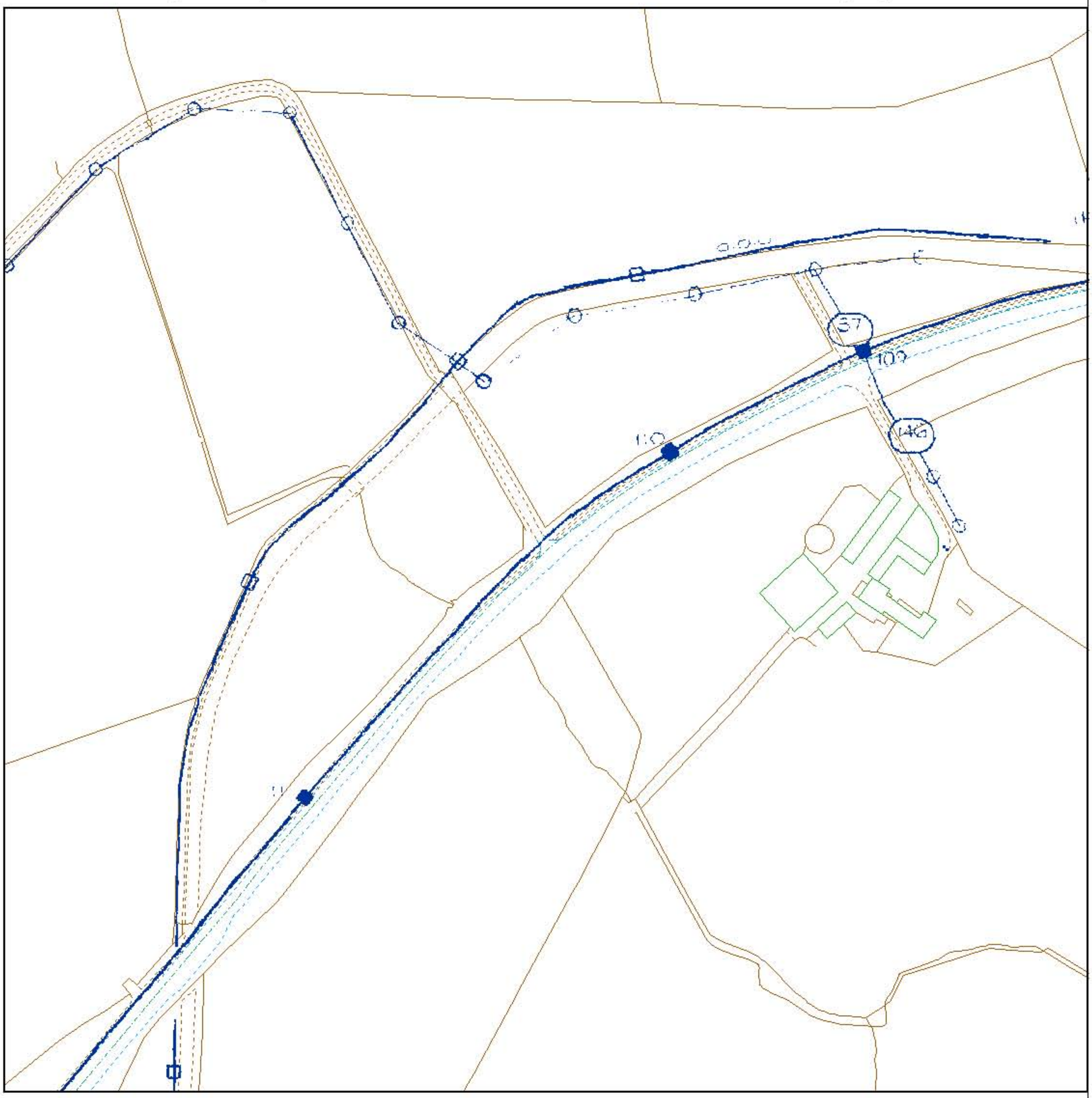
Date: 05/07/2012

Produced by:

Produced for:

X Coord: 231009
Y Coord: 611016

Maps by email Plant Information Reply



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DIAL BEFORE YOU DIG

FOR PROFESSIONAL ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS

ADVANCE NOTICE REQUIRED
(Office hours: Monday-Friday 08.00 to 17.00)

Tel: 0800 9173993
E-mail: dbyd@openreach.co.uk
Website: www.dialbeforeyoudig.com

KEY TO BT SYMBOLS

UNDERGROUND PLANT		POLE	
A/C, D/W or W	OVERHEAD PLANT	CABINET	
JOINT BOX		BURIED JOINT	
456 OR 456	DISTRIBUTION POINT	J	JOINTING POST
OR 72	MANHOLE		PROPOSED U/G
DP BOUNDARY		A/C, D/W or W	PROPOSED O/H
OR	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

openreach
a BT Group business

BT ref: UHV09195X

Map reference (centre): NS2873409419

Issued: 06/07/12 09:19:39

Maps by email Plant Information Reply

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Website: www.dialbeforeyoudig.com

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UNDERGROUND PLANT		POLE	
A/C, D/W or W	OVERHEAD PLANT	CABINET	
JOINT BOX		BURIED JOINT	
456 OR 456	DISTRIBUTION POINT	J	JOINTING POST
OR 72	MANHOLE		PROPOSED U/G
DP BOUNDARY		A/C, D/W or W	PROPOSED O/H
OR	OTHER BT BOUNDARY		PROPOSED BOX

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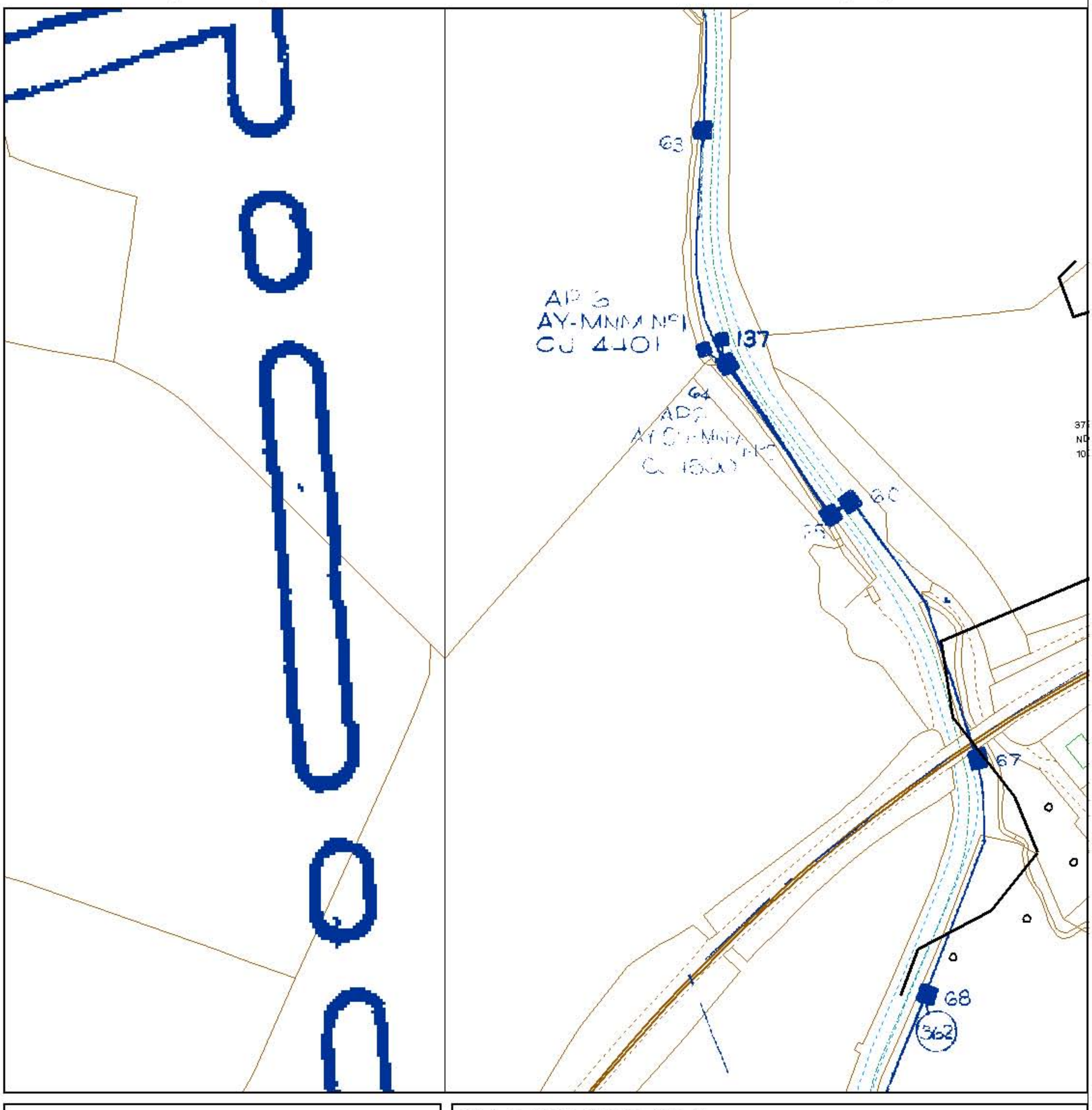
openreach
a BT Group business

BT ref: CNZ10171H

Map reference (centre): NS3045110862

Issued: 06/07/12 10:18:08

Maps by email Plant Information Reply



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Website: www.dialbeforeyoudig.com

KEY TO BT SYMBOLS

———	UNDERGROUND PLANT	○	POLE
A/C, D/W or W	OVERHEAD PLANT	⊠	CABINET
■	JOINT BOX	□	BURIED JOINT
456 OR 456	DISTRIBUTION POINT	J	JOINTING POST
■ OR 72	MANHOLE	- - - - - -	PROPOSED U/G
—·—·—	DP BOUNDARY	A/C, D/W or W	PROPOSED O/H
OR	OTHER BT BOUNDARY	◪	PROPOSED BOX

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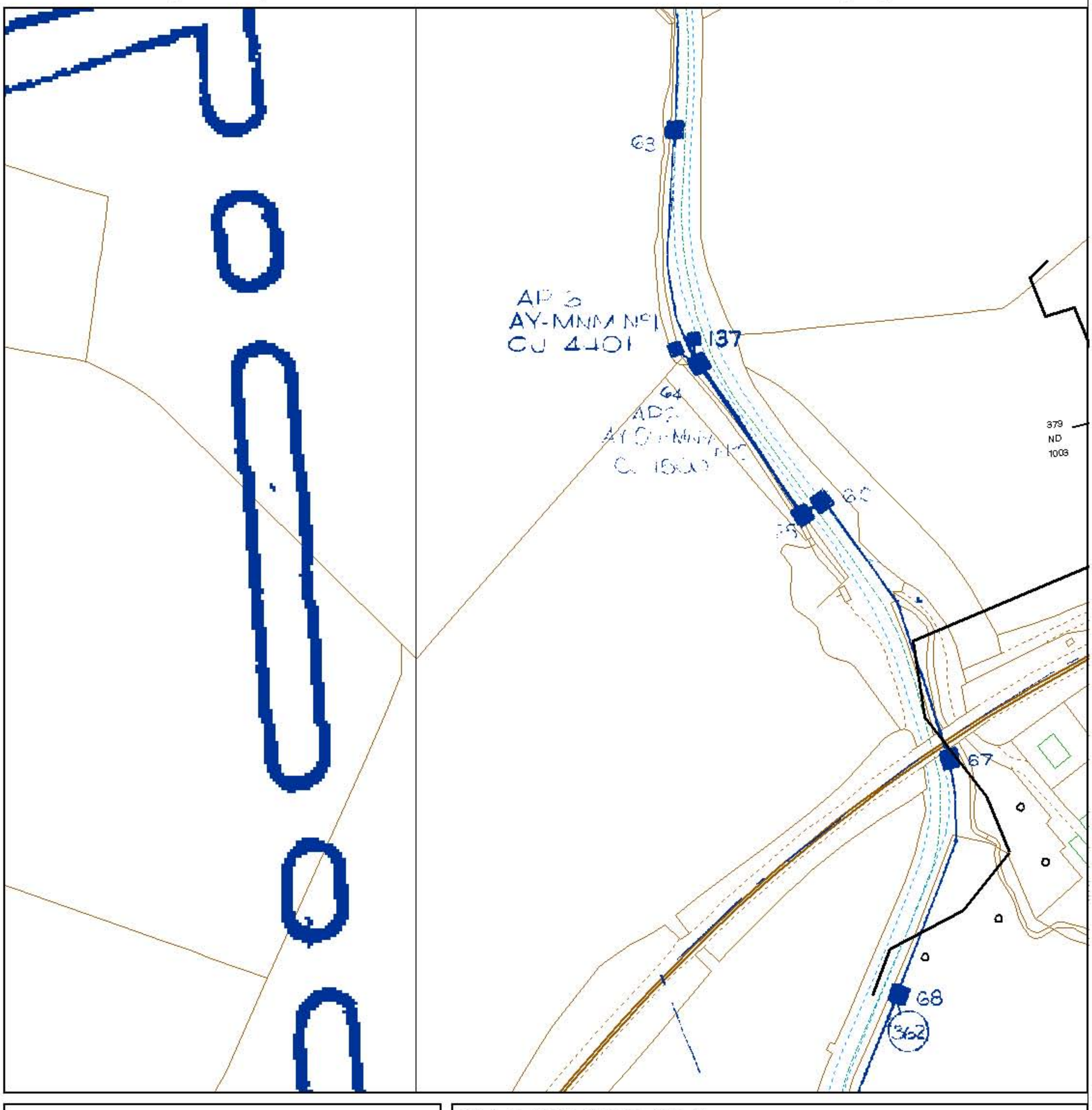
openreach
a BT Group business

BT ref: JEH10474P

Map reference (centre): NS3204712498

Issued: 06/07/12 10:48:14

Maps by email Plant Information Reply



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A/C, D/W or W	OVERHEAD PLANT	CABINET	
JOINT BOX		BURIED JOINT	
456 OR 456	DISTRIBUTION POINT	J	JOINTING POST
OR 72	MANHOLE		PROPOSED U/G
DP BOUNDARY		A/C, D/W or W	PROPOSED O/H
OR	OTHER BT BOUNDARY		PROPOSED BOX

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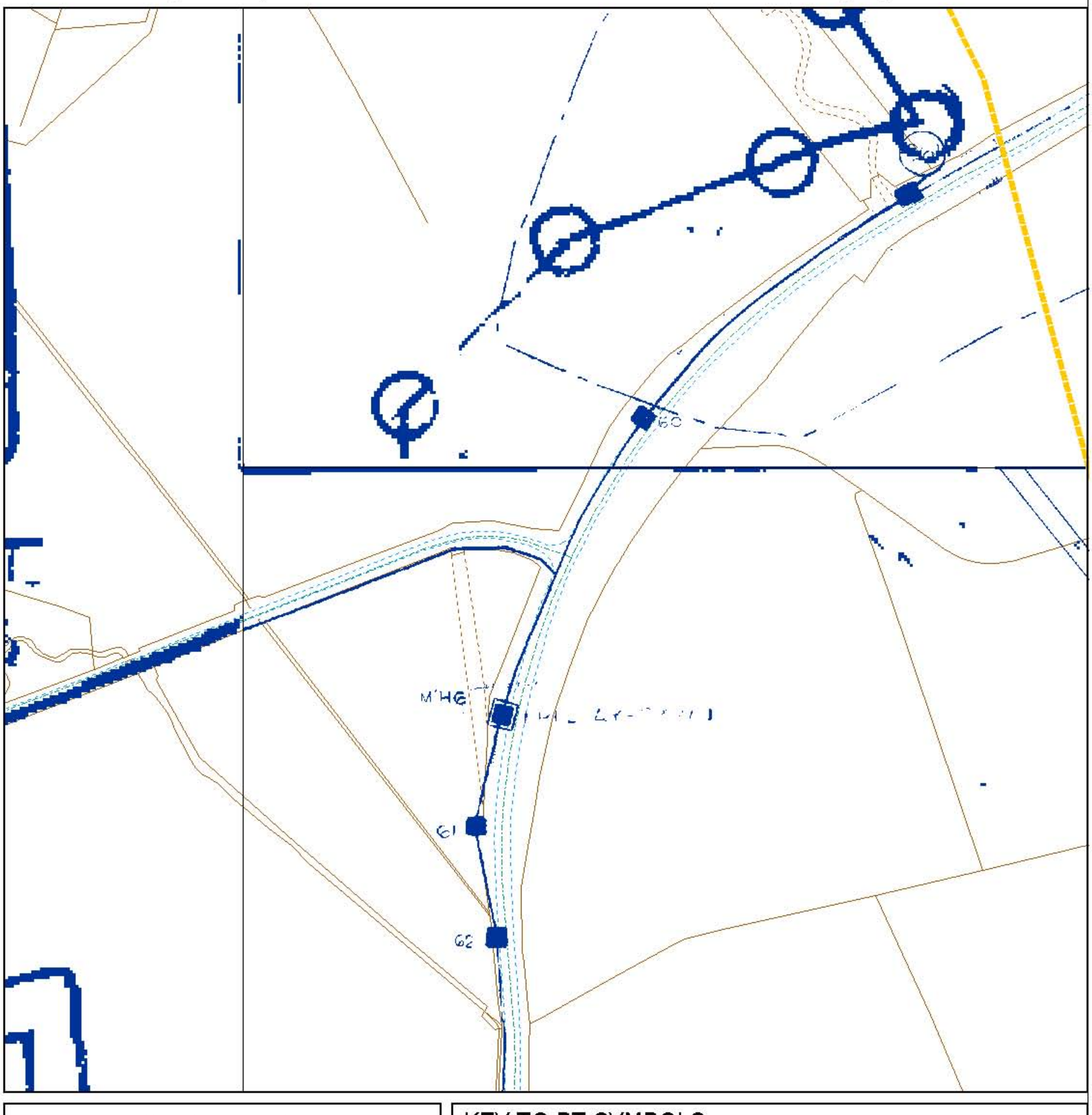
openreach
a BT Group business

BT ref: RBK11005A

Map reference (centre): NS3206012498

Issued: 06/07/12 11:01:12

Maps by email Plant Information Reply



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A/C, D/W or W	OVERHEAD PLANT	CABINET	
JOINT BOX		BURIED JOINT	
456 OR 456	DISTRIBUTION POINT	J	JOINTING POST
OR 72	MANHOLE		PROPOSED U/G
DP BOUNDARY		A/C, D/W or W	PROPOSED O/H
OR	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

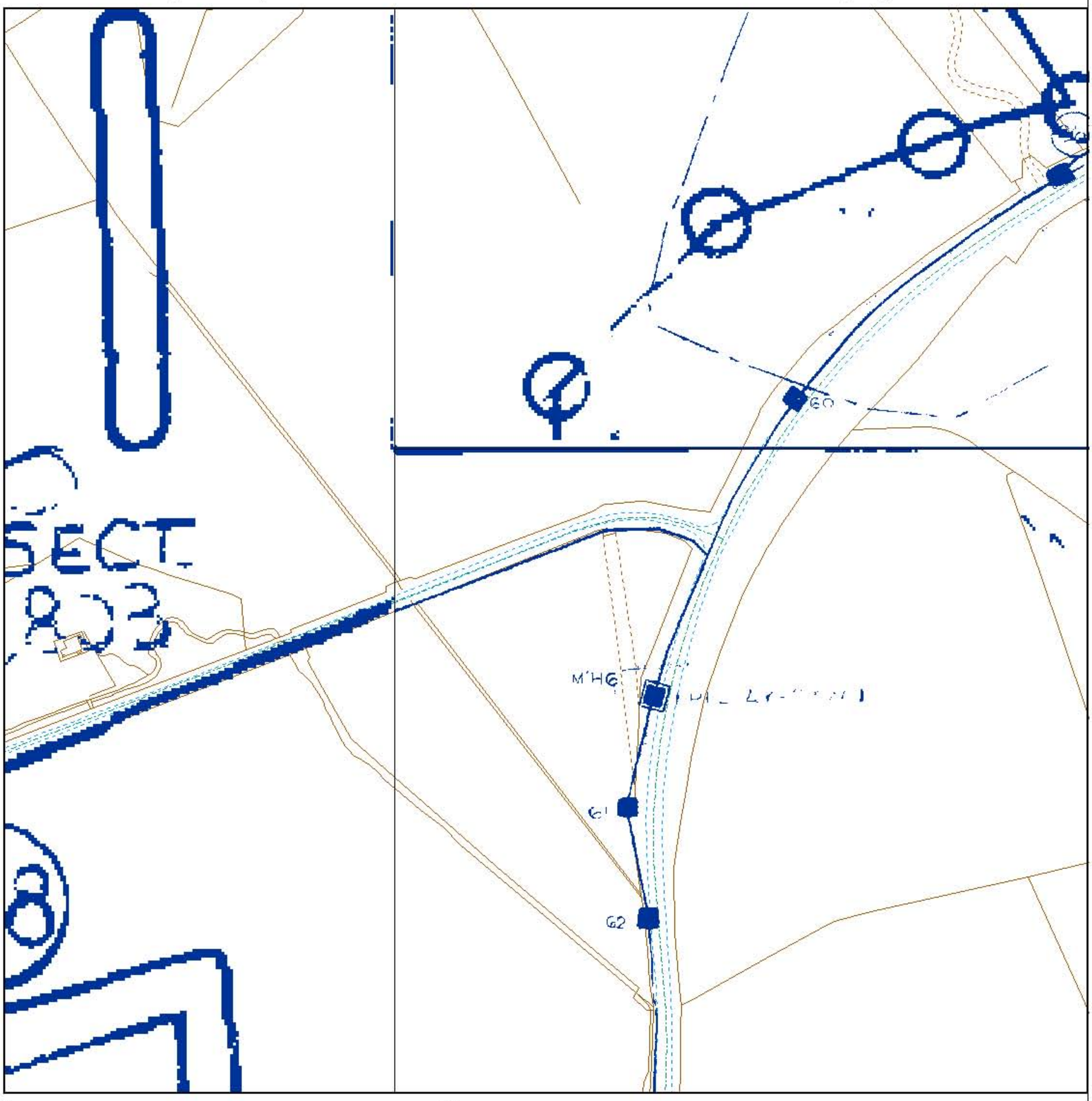
openreach
a BT Group business

BT ref: IRB11051W

Map reference (centre): NS3214012962

Issued: 06/07/12 11:06:04

Maps by email Plant Information Reply



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UNDERGROUND PLANT		POLE	
A/C, D/W or W	OVERHEAD PLANT	CABINET	
JOINT BOX		BURIED JOINT	
456 OR 456	DISTRIBUTION POINT	J	JOINTING POST
OR 72	MANHOLE		PROPOSED U/G
DP BOUNDARY		A/C, D/W or W	PROPOSED O/H
OR	OTHER BT BOUNDARY		PROPOSED BOX

Other proposed plant is shown using dashed lines. BT symbols not listed above may be disregarded. Existing BT plant may not be recorded. Information valid at the time of preparation.

openreach
a BT Group business

BT ref: FCX11084T

Map reference (centre): NS3207012953

Issued: 06/07/12 11:08:58

Maps by email Plant Information Reply

IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.

DIAL BEFORE YOU DIG

FOR PROFESSIONAL ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS

ADVANCE NOTICE REQUIRED
(Office hours: Monday-Friday 08.00 to 17.00)

Tel: 0800 9173993
E-mail: dbyd@openreach.co.uk
Website: www.dialbeforeyoudig.com

KEY TO BT SYMBOLS

UNDERGROUND PLANT		POLE	
A/C, D/W or W	OVERHEAD PLANT	CABINET	
JOINT BOX		BURIED JOINT	
456 OR 456	DISTRIBUTION POINT	J	JOINTING POST
OR 72	MANHOLE		PROPOSED U/G
DP BOUNDARY		A/C, D/W or W	PROPOSED O/H
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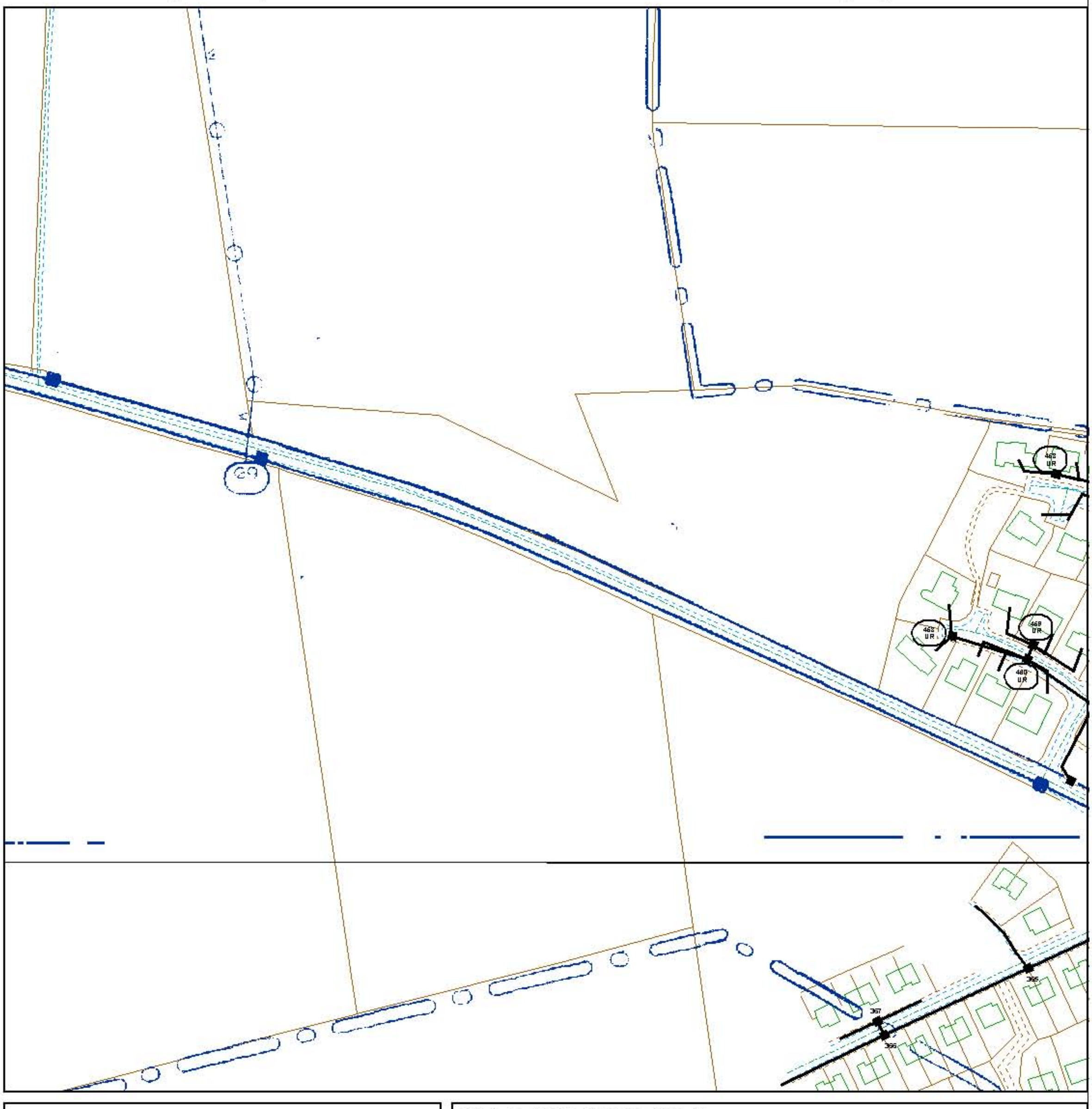
openreach
a BT Group business

BT ref: FEQ09439K

Map reference (centre): NS2892109929

Issued: 06/07/12 09:43:46

Maps by email Plant Information Reply



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OR	OTHER BT BOUNDARY		PROPOSED BOX

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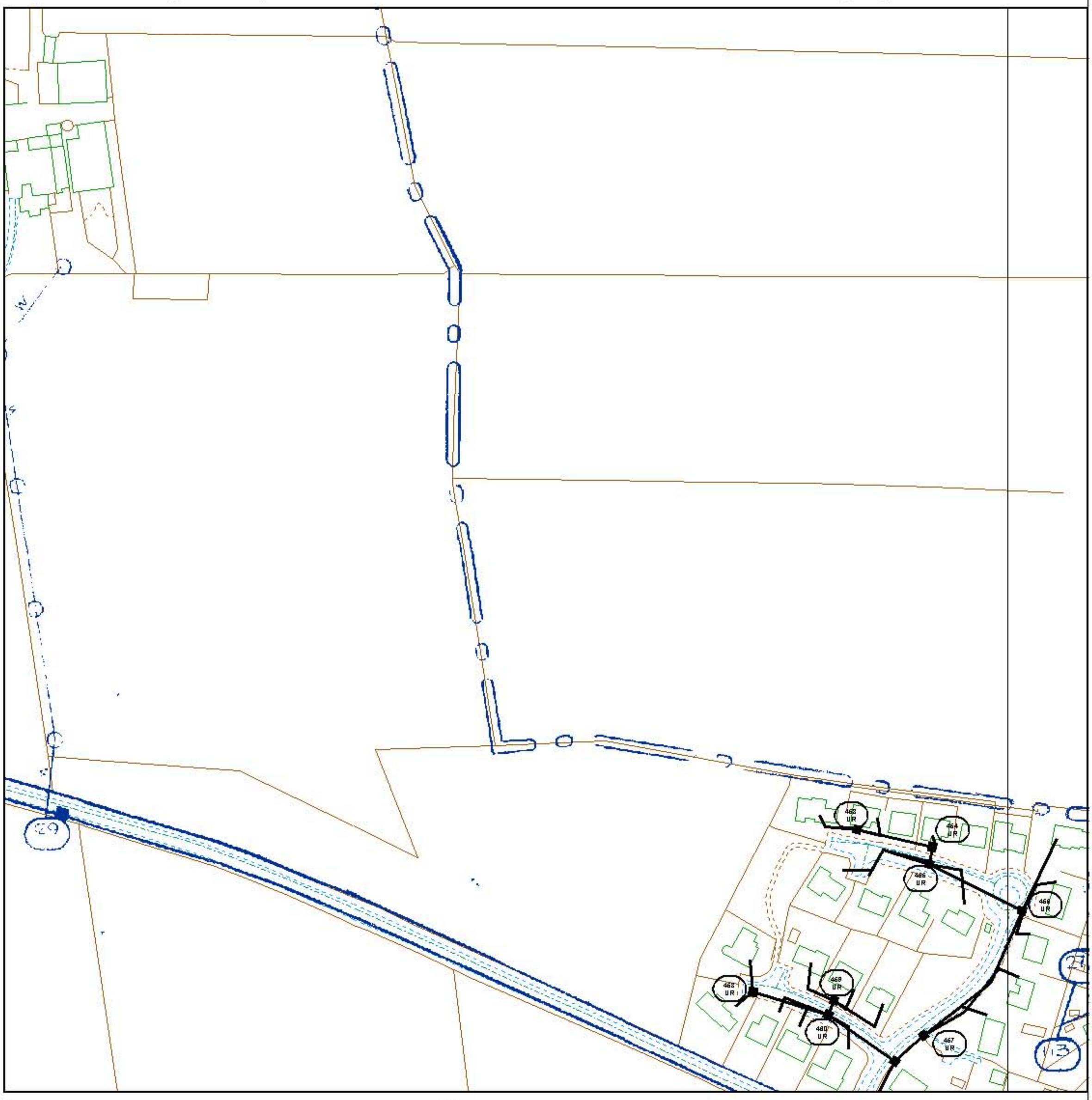
openreach
a BT Group business

BT ref: CQF09327M

Map reference (centre): NS2899710144

Issued: 06/07/12 09:32:54

Maps by email Plant Information Reply



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OR	OTHER BT BOUNDARY		PROPOSED BOX

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openreach
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BT ref: SXT09472G

Map reference (centre): NS2908910308

Issued: 06/07/12 09:48:22

Maps by email Plant Information Reply

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A/C, D/W or W	OVERHEAD PLANT		CABINET
	JOINT BOX		BURIED JOINT
456 OR 456	DISTRIBUTION POINT	J	JOINTING POST
OR 72	MANHOLE		PROPOSED U/G
	DP BOUNDARY	A/C, D/W or W	PROPOSED O/H
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openreach
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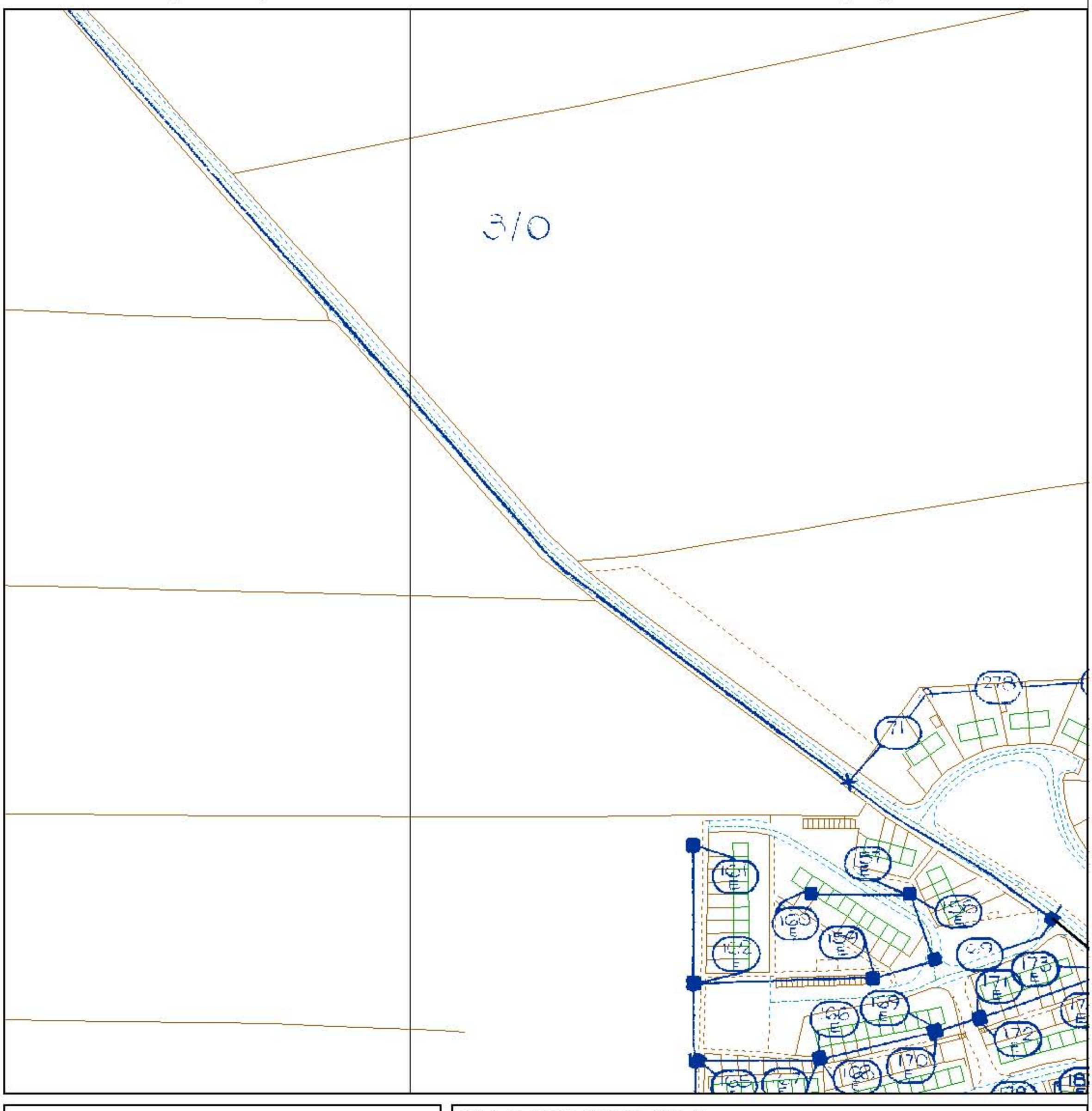
BT ref: FRX09516F

Map reference (centre): NS2927710496

Issued: 06/07/12 09:51:59

Maps by email Plant Information Reply



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JOINT BOX		BURIED JOINT	
456 OR 456	DISTRIBUTION POINT	J	JOINTING POST
OR 72	MANHOLE		PROPOSED U/G
DP BOUNDARY		A/C, D/W or W	PROPOSED O/H
OR	OTHER BT BOUNDARY		PROPOSED BOX

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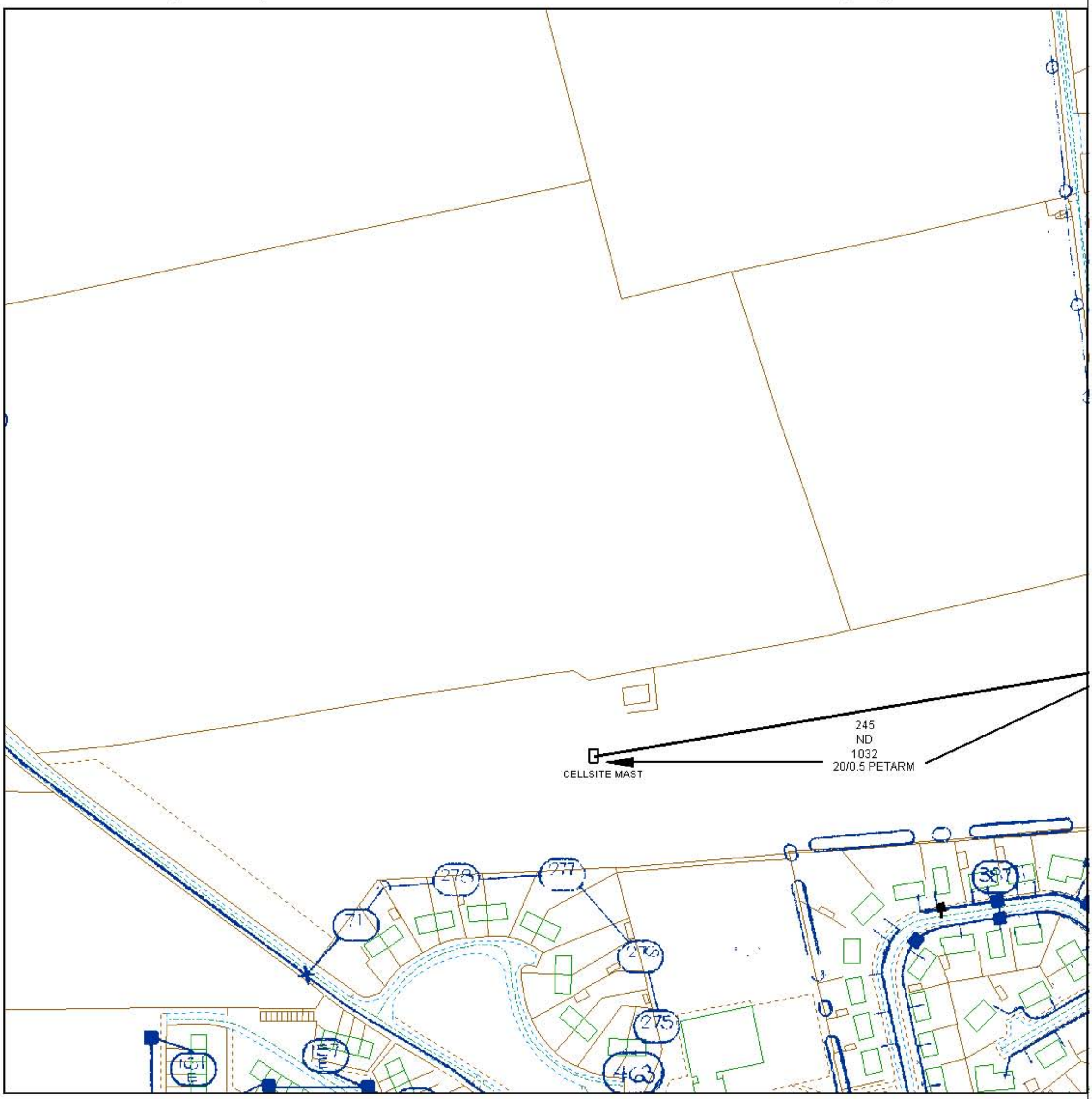
BT ref: UEU09556J

Map reference (centre): NS2936510556

Issued: 06/07/12 09:56:19

Maps by email Plant Information Reply



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DP BOUNDARY		A/C, D/W or W	PROPOSED O/H
OR	OTHER BT BOUNDARY		PROPOSED BOX

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BT ref: XSD10013G

Map reference (centre): NS2961510645

Issued: 06/07/12 10:02:06

Maps by email Plant Information Reply

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BT ref: IRD10111V

Map reference (centre): NS2987010708

Issued: 06/07/12 10:11:42

Appendix C

Landmark Envirocheck Report

Geology 1:10,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Present Day - Present Day
	WGR	Worked Ground (Undivided)	Void	Present Day - Present Day
	LSGR	Landscaped Ground (Undivided)	Unknown/Unclassified Entry	Present Day - Present Day

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Unknown/Unclassified Entry	Flandrian - Flandrian
	HMGD	Hummocky (Moundy) Glacial Deposits	DIAMICTON, CLAY, SAND AND GRAVEL	Pleistocene - Pleistocene
	HMGD	Hummocky (Moundy) Glacial Deposits	DIAMICTON, SAND AND GRAVEL	Pleistocene - Pleistocene
	GFDU	Glaciofluvial Deposits	Sand and Gravel	Quaternary - Quaternary
	TILL	Till	Diamicton	Quaternary - Quaternary
	PEAT	Peat	Peat	Quaternary - Quaternary
	LDE	Lacustrine Deposits	Sand	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CRKV	Carrick Volcanic Formation	Basalt and Basaltic Andesite	Early Devonian - Early Devonian
	SWAS	Swanshaw Sandstone Formation	Sandstone	Early Devonian - Ludlow
	SWAS	Swanshaw Sandstone Formation	Volcaniclastic-sandstone	Early Devonian - Ludlow
	SWAS	Swanshaw Sandstone Formation	Conglomerate	Early Devonian - Ludlow
	SDMHV	Mochrum Hill Vent	Microporphyritic Basalt	Devonian - Silurian
	SDMHV	Mochrum Hill Vent	Basaltic Volcaniclastic-breccia	Devonian - Silurian
	Fault			

Envirocheck® Geology

Geology 1:10,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:10,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around a site. This mapping may be more up to date than previously published paper maps.

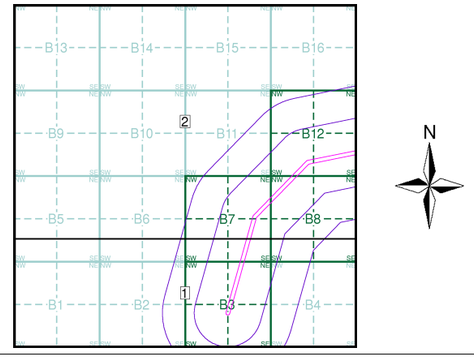
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page.

Please Note: Not all of the layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:10,000 Maps Coverage

Map ID:	1	**Map ID:**	2
Map Name:	NS20NE	**Map Name:**	NS21SE
Map Date:	2008	**Map Date:**	2008
Bedrock Geology:	Available	**Bedrock Geology:**	Available
Superficial Geology:	Available	**Superficial Geology:**	Available
Artificial Geology:	Available	**Artificial Geology:**	Available
Faults:	Available	**Faults:**	Available
Landslip:	Not Available	**Landslip:**	Not Available
Rock Segments:	Available	**Rock Segments:**	Not Available

Geology 1:10,000 Maps - Slice B



Order Details

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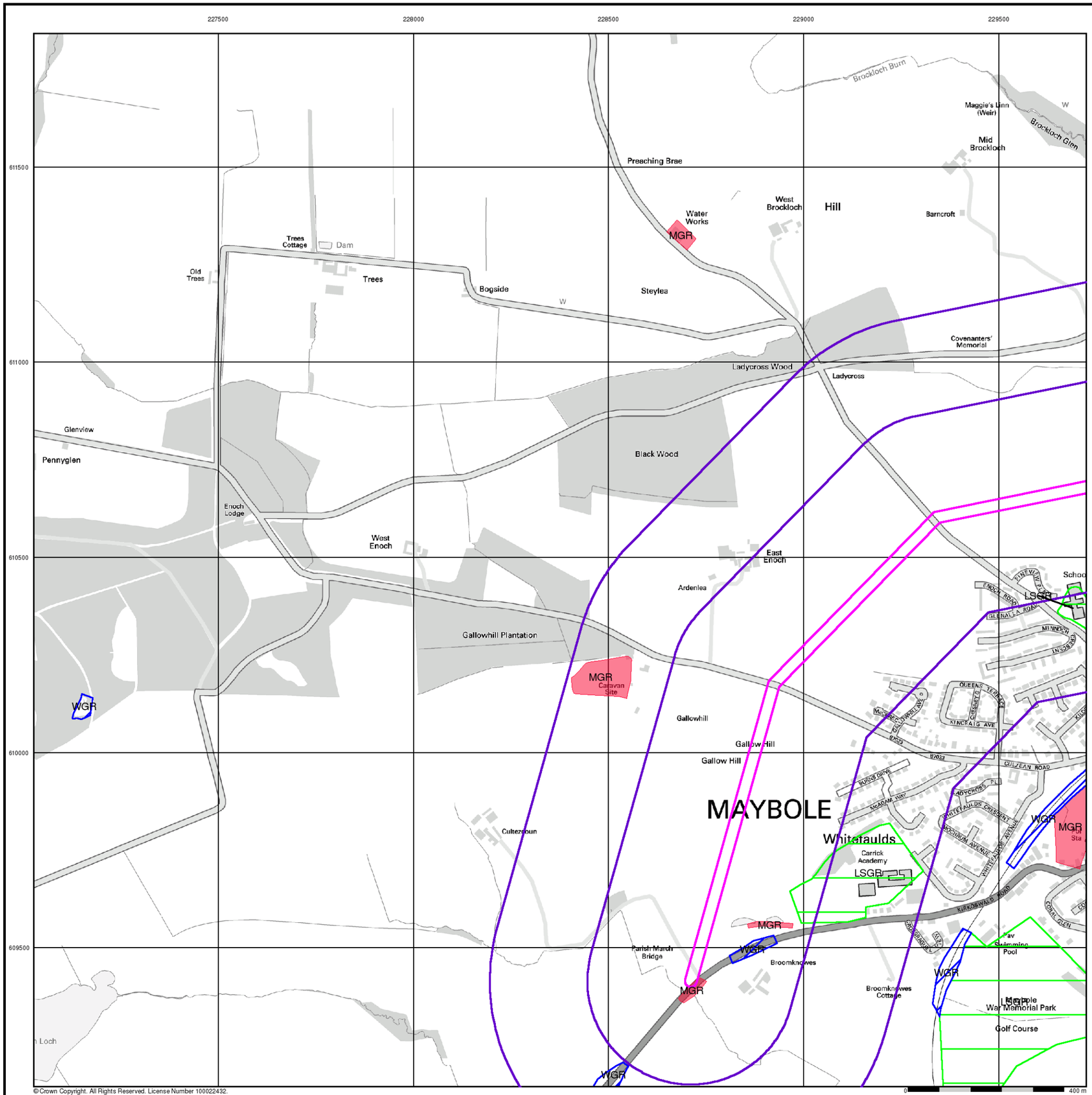
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Geology

Artificial Ground and Landslip

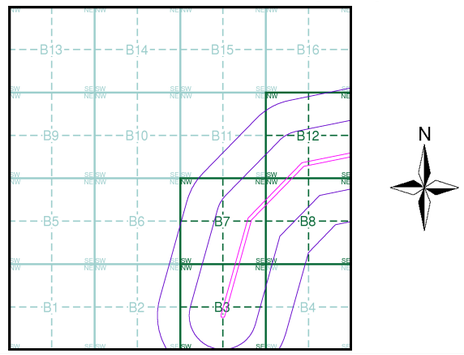
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice B



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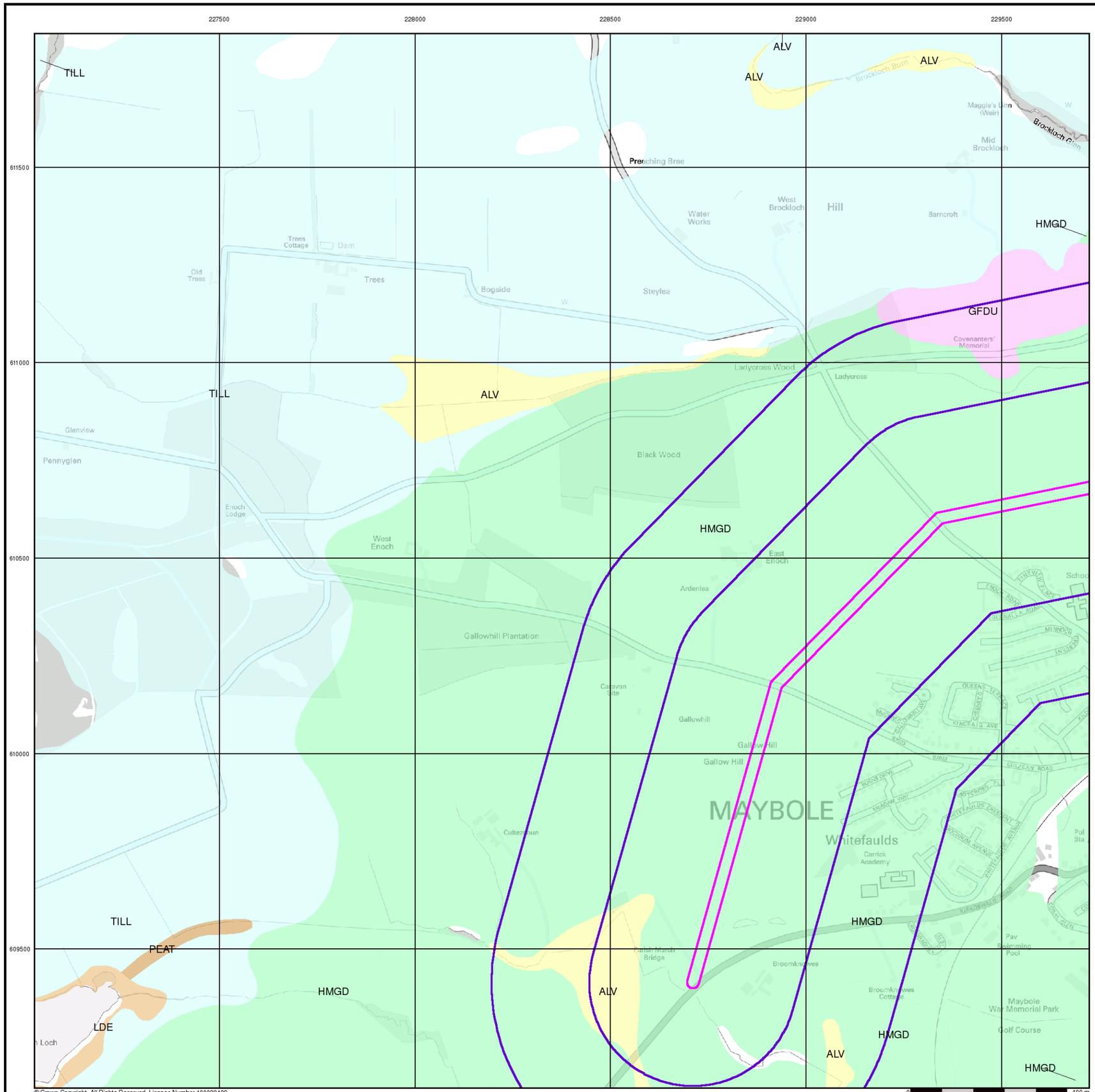


Envirocheck® Geology

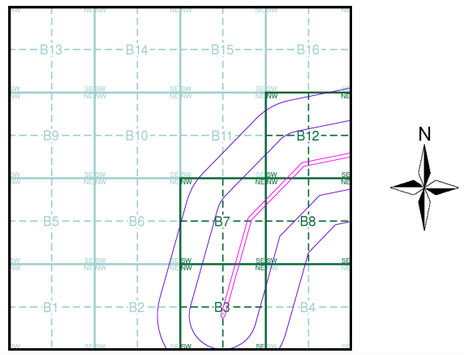
Superficial Geology

BGS 1:10,000 Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice B



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Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
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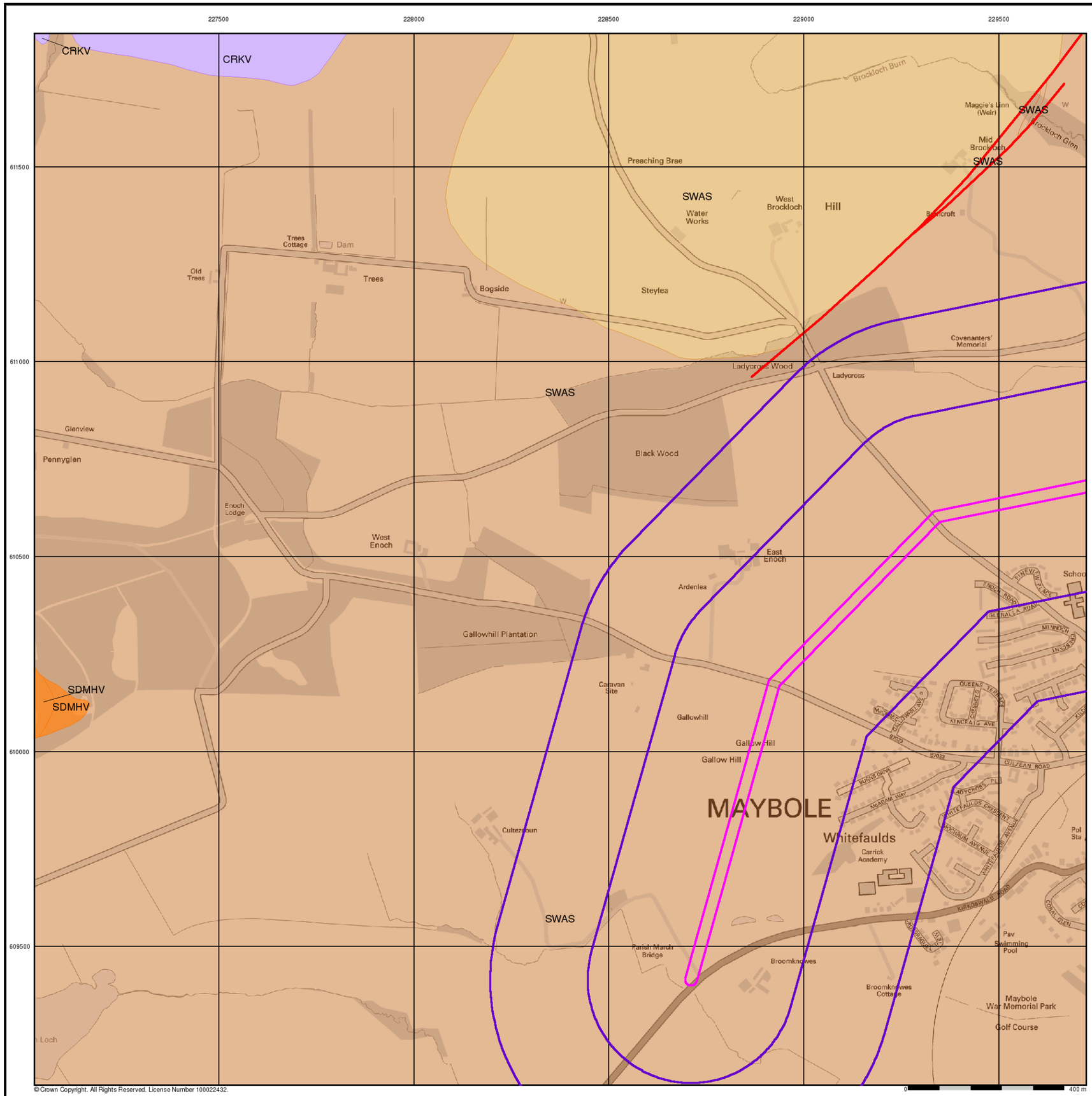


Envirocheck® Geology

Bedrock and Faults

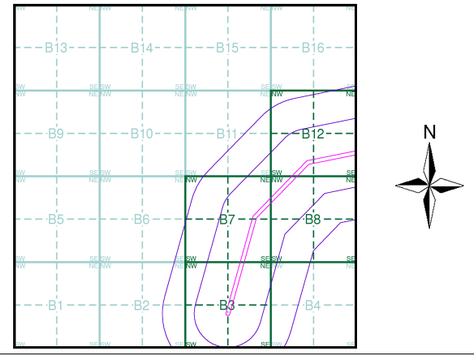
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults and thin beds mapped as lines such as coal seams and mineral veins. These are not restricted by age and could relate to features of any of the 1:10,000 geology datasets.

Bedrock and Faults Map - Slice B



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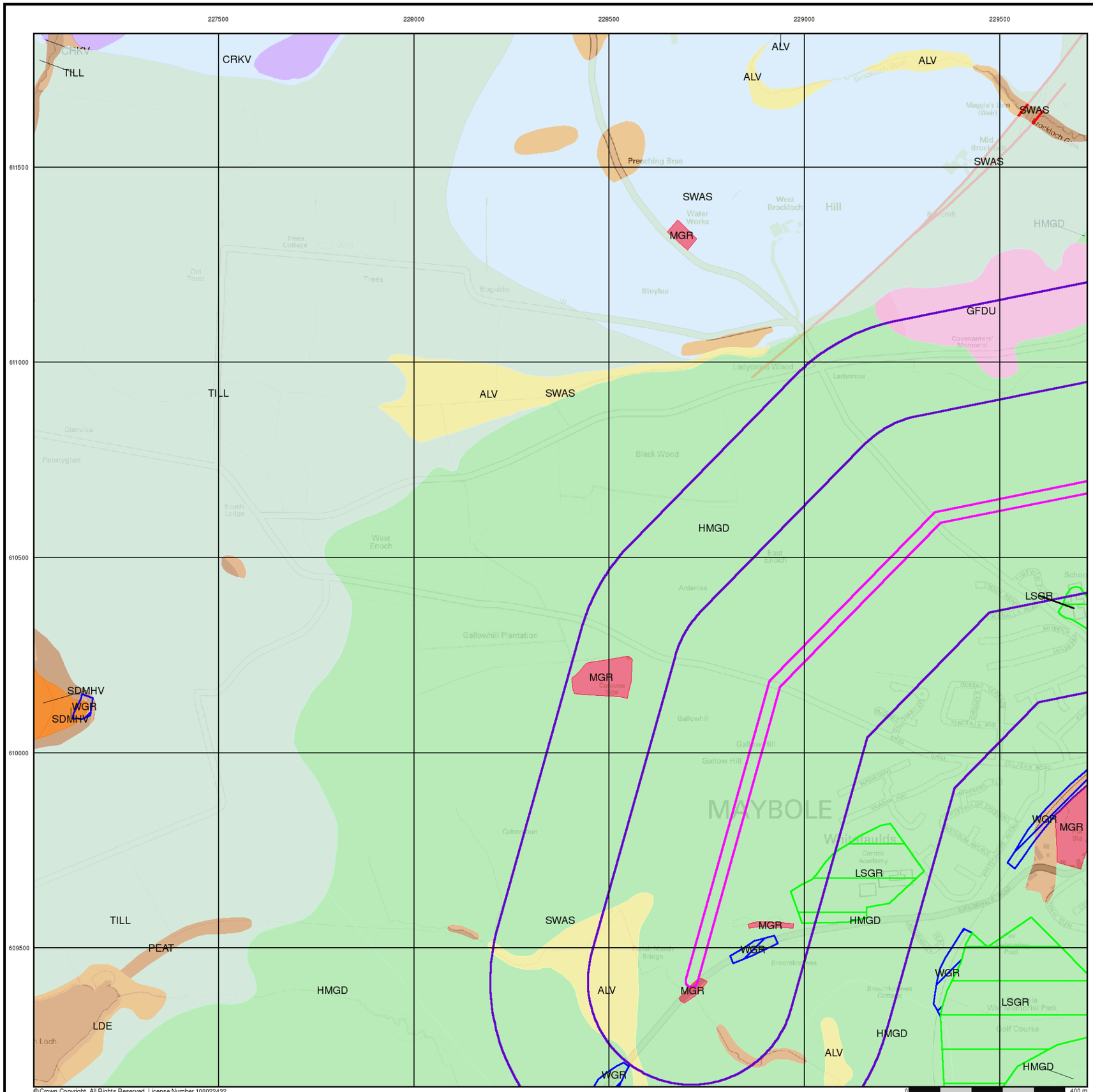


Envirocheck® Geology

Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

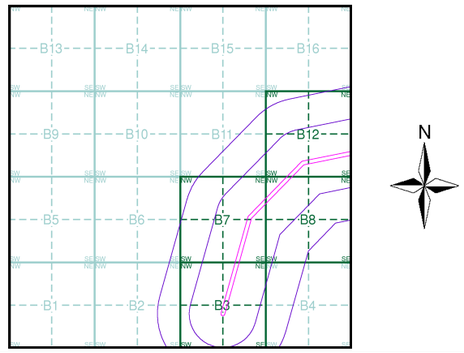
Additional Information

More information on 1:10,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice B



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Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
40002230_1_1

Customer Reference:
Co25000182

National Grid Reference:
228860, 610240

Slice:
B

Site Area (Ha):
16.08

Search Buffer (m):
500

Site Details:

Site at
Maybole
South Ayrshire

Client Details:

Mr M Ayton
Amey OW Ltd
Precision House
1st floor, off McNeil Drive
Europoint Eurocentral
Motherwell
ML1 4UR

Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Natural England Copyright Notice

Ove Arup Copyright Notice

Peter Brett Associates Copyright Notice

Radon Potential dataset Copyright Notice

Report Version v47.0

Envirocheck®

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Agency & Hydrological				
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 1			1
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls				
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 1		Yes	
Pollution Incidents to Controlled Waters				
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality				
Substantiated Pollution Incident Register				
Water Abstractions				
Water Industry Act Referrals				
Groundwater Vulnerability	pg 1	Yes	n/a	n/a
Source Protection Zones				
River Flood Data (Scotland)				n/a
Waste				
BGS Recorded Landfill Sites				
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
Local Authority Recorded Landfill Sites	pg 2		1	
Registered Landfill Sites				
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				
Hazardous Substances				
Control of Major Accident Hazards Sites (COMAH)				
Explosive Sites				
Notification of Installations Handling Hazardous Substances (NIHHS)				
Planning Hazardous Substance Consents				
Planning Hazardous Substance Enforcements				

Envirocheck®

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Geological				
BGS 1:625,000 Solid Geology	pg 3	Yes	n/a	n/a
BGS Estimated Soil Chemistry	pg 3	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 5			1
BGS Urban Soil Chemistry				
BGS Urban Soil Chemistry Averages				
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain	pg 5	Yes		n/a
Potential for Collapsible Ground Stability Hazards	pg 5	Yes		n/a
Potential for Compressible Ground Stability Hazards	pg 5		Yes	n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 6	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards	pg 6		Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 6		Yes	n/a
Radon Potential - Radon Affected Areas			n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a
Industrial Land Use				
Contemporary Trade Directory Entries	pg 7		1	1 (*2)
Fuel Station Entries				

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Sensitive Land Use				
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves				
Marine Nature Reserves				
National Nature Reserves				
National Parks				
National Scenic Areas				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones				
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: A J W Kidd Property Type: Not Given Location: New Swimming Pool At The, Ranch Caravan Park, Culzean Road, MAYBOLE, KA19 8DU Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 10204 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 5th May 1992 Revocation Date: Not Supplied Discharge Type: Septic tank Discharge Environment: Onto Land Receiving Water: Underground Strata **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	B7NW (W)	401	1	228500 610200
	Nearest Surface Water Feature	B3SW (S)	14	-	228691 609394
	Groundwater Vulnerability Geological Classification: Minor or Moderately Permeable Aquifer - Fractured or potentially fractured rocks which do not have a high primary permeability or other formations of variable permeability Soil Classification: Not classified Map Sheet: Map of Scotland Scale: 1:625,000	B7NE (E)	0	2	228857 610237
	Drift Deposits Drift Deposit: Low permeability drift deposits which include till, head, peat, lacustrine deposits, clay-with-flints and brick earths Map Sheet: Map of Scotland Scale: 1:625,000	B7NE (E)	0	2	228857 610237
	River Flood Data (Scotland) None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: South Ayrshire Council - Has supplied landfill data		0	3	228857 610237
2	**Local Authority Recorded Landfill Sites** Location: Kirklandhill, Maybole Reference: Not Supplied Authority: South Ayrshire Council **Last Reported Status:** **Closed** Types of Waste: Not Supplied Date of Closure: 31/12/1970 Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	B12NE (NE)	138	3	229703 610848

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Old Red Sandstone, including Downtonian	B7NE (E)	0	4	228857 610237
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B7SE (S)	0	5	228857 610000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B7NE (E)	0	5	229000 610237
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B7NE (E)	0	5	228857 610237
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B3SE (S)	23	5	228778 609451
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B3NW (S)	102	5	228656 609678
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B7SE (SE)	106	5	229000 610000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B11NE (N)	246	5	229000 611000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B3SE (S)	274	5	229000 609337
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B4SW (S)	285	5	229116 609470
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B12NW (NE)	302	5	229285 610984
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B3SE (S)	307	5	229000 609274
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B3SE (S)	319	5	229008 609254

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B12NW (NE)	322	5	229278 611000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	B4SW (S)	356	5	229091 609365
3	**BGS Recorded Mineral Sites** Site Name: Kirklandhill Gravel Pit Location: Kirklandhill, Maybole, Ayrshire Source: British Geological Survey, National Geoscience Information Service Reference: 30001 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Glaciofluvial Deposits Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	B12NE (NE)	333	4	229530 610995
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	4	228857 609999
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	4	228857 610237
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	4	228857 610237
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	4	228857 609999
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B3NW (SW)	122	4	228604 609639
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	4	228857 610237
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	4	228857 609999
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B3NW (SW)	122	4	228604 609639
	Potential for Ground Dissolution Stability Hazards No Hazard				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	4	228857 610237
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	4	228857 609999
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B3NW (SW)	183	4	228568 609636
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B3NW (SW)	225	4	228516 609606
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B2NE (SW)	240	4	228345 609515
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	4	228857 610237
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	4	228857 609999
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B3NW (SW)	122	4	228604 609639
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	4	228857 610237
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	4	228857 609999
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B3NW (SW)	122	4	228604 609639
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	4	228857 609999
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	4	228857 610237
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	4	228857 609999
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	4	228857 610237

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Contemporary Trade Directory Entries** Name: Lcr Auto Solutions Location: 52, McAdam Way, Maybole, Ayrshire, KA19 8FD Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	B8SW (SE)	242	-	229098 609844
5	**Contemporary Trade Directory Entries** Name: Mcgill & Smith (Seeds) Ltd Location: 35, Kildoon Drive, Maybole, Ayrshire, KA19 8AZ Classification: Agricultural Merchants **Status: Inactive** Positional Accuracy: Automatically positioned to the address	B8SE (E)	480	-	229614 610153
	Contemporary Trade Directory Entries Name: D M Reid & Son Location: 9, Ladycross Place, Maybole, Ayrshire, KA19 8BT Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	B8SE (SE)	518	-	229407 609907
	Contemporary Trade Directory Entries Name: D J Dunabie Ltd Location: Drummurran Garage, 51, Kirkoswald Road, Maybole, Ayrshire, KA19 8BW Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	B4NW (SE)	596	-	229385 609555

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
South Ayrshire Council	June 2012	Annual Rolling Update
Discharge Consents		
Scottish Environment Protection Agency - West Region	May 1998	Variable
Enforcement and Prohibition Notices		
Scottish Environment Protection Agency - West Region	January 2012	Not Applicable
Integrated Pollution Controls		
Scottish Environment Protection Agency - Head Office	February 1998	Variable
Scottish Environment Protection Agency - West Region	March 2002	Variable
Local Authority Pollution Prevention and Controls		
Scottish Environment Protection Agency - West Region	March 2002	Variable
Nearest Surface Water Feature		
Ordnance Survey	December 2011	Quarterly
Prosecutions Relating to Authorised Processes		
Scottish Environment Protection Agency - West Region	March 2007	Not Applicable
Prosecutions Relating to Controlled Waters		
Scottish Environment Protection Agency - West Region	March 2007	Not Applicable
Registered Radioactive Substances		
Scottish Environment Protection Agency - West Region	April 1996	Variable
Scottish Environment Protection Agency - Head Office	January 1998	Variable
River Quality		
Scottish Environment Protection Agency - Head Office	December 1990	Not Applicable
Water Abstractions		
Scottish Executive - Agriculture, Environment and Fisheries Department	December 1997	Not Applicable
Water Industry Act Referrals		
Scottish Environment Protection Agency - West Region	April 1996	Variable
Groundwater Vulnerability		
Scottish Environment Protection Agency - Head Office	December 1995	Not Applicable
Drift Deposits		
Scottish Environment Protection Agency - Head Office	December 1995	Not Applicable
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Integrated Pollution Control Registered Waste Sites		
Scottish Environment Protection Agency - Head Office	January 1998	Variable
Scottish Environment Protection Agency - West Region	January 1998	Variable
Local Authority Landfill Coverage		
South Ayrshire Council	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
South Ayrshire Council	May 2000	Not Applicable
Registered Landfill Sites		
Scottish Environment Protection Agency - West Region	December 2005	Not Applicable
Registered Waste Transfer Sites		
Scottish Environment Protection Agency - West Region	December 2005	Not Applicable
Registered Waste Treatment or Disposal Sites		
Scottish Environment Protection Agency - West Region	December 2005	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	May 2012	Bi-Annually
Explosive Sites Health and Safety Executive	June 2012	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements South Ayrshire Council - Planning Department	February 2012	Annual Rolling Update
Planning Hazardous Substance Consents South Ayrshire Council - Planning Department	February 2012	Annual Rolling Update
Geological	**Version**	**Update Cycle**
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	August 2011	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	May 2012	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2012	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt South Ayrshire Council	April 2012	As notified
Areas of Unadopted Green Belt South Ayrshire Council	April 2012	As notified
Environmentally Sensitive Areas Scottish Executive - Geographic Information Service	April 2012	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Marine Nature Reserves Scottish Natural Heritage	February 2012	Bi-Annually
National Nature Reserves Scottish Natural Heritage	May 2012	Bi-Annually
Nitrate Vulnerable Zones Scottish Executive - Geographic Information Service	April 2011	Annually
Ramsar Sites Scottish Natural Heritage	May 2012	Bi-Annually
Sites of Special Scientific Interest Scottish Natural Heritage	May 2012	Bi-Annually
Special Areas of Conservation Scottish Natural Heritage	May 2012	Bi-Annually
Special Protection Areas Scottish Natural Heritage	May 2012	Bi-Annually

Data Suppliers

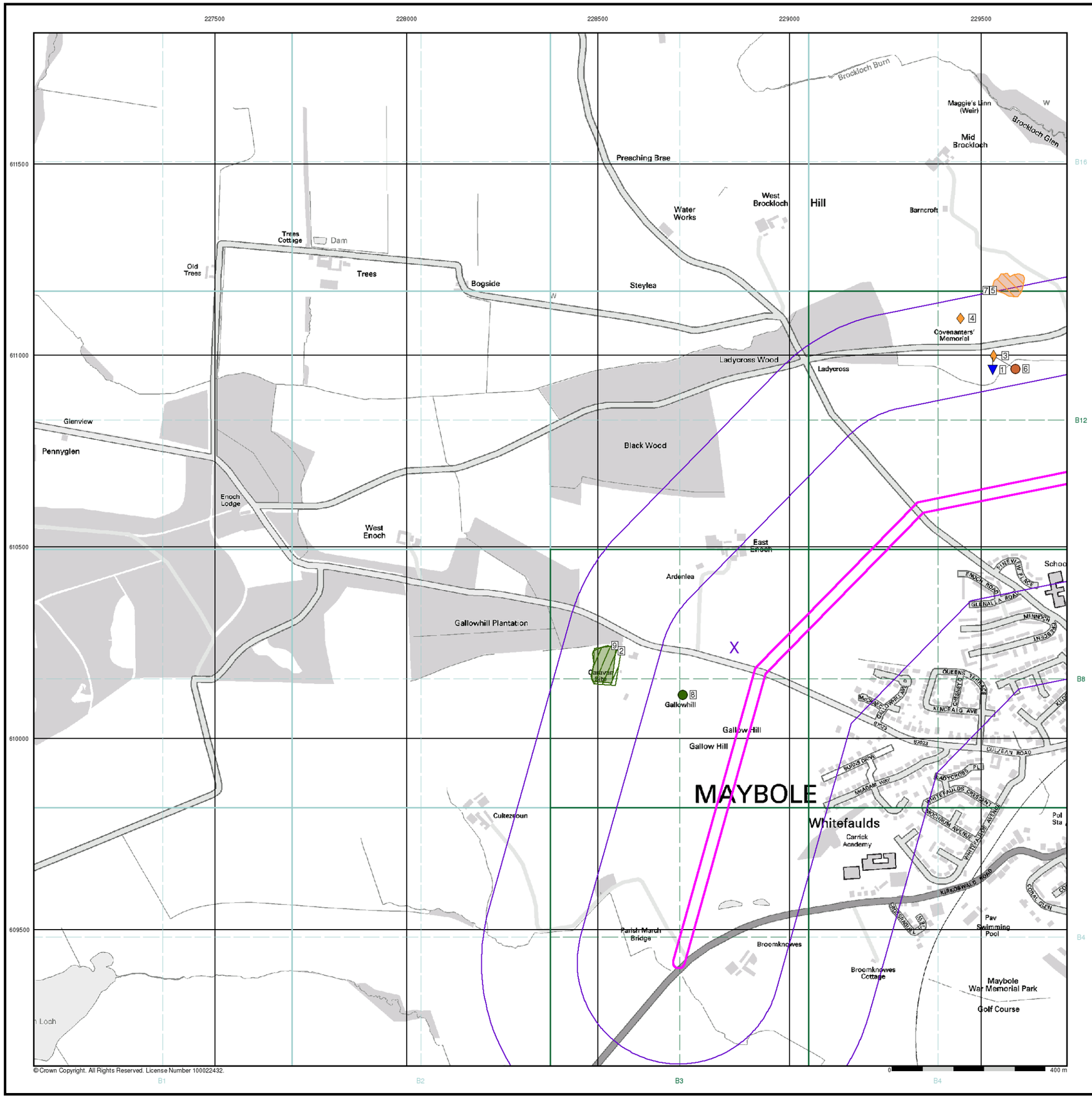
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Useful Contacts

Contact	Name and Address	Contact Details
1	**Scottish Environment Protection Agency - West Region** 5 Redwood Crescent, Peel Park, East Kilbride, South Lanarkshire, G74 5PP	Telephone: 01355 574200 Fax: 01355 574688
2	**Scottish Environment Protection Agency - Head Office** Erskine Court, The Castle Business Park, Stirling, Stirlingshire, FK9 4TR	Telephone: 01786 457700 Fax: 01786 446885
3	**South Ayrshire Council** Council Buildings, Wellington Square, Ayr, Ayrshire, KA7 1DR	Telephone: 01292 612000 Fax: 01292 612143 Website: www.south-ayrshire.gov.uk
4	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
5	**Landmark Information Group Limited** 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
-	**Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	**Landmark Information Group Limited** The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.



Historical Land Use Information (1:10,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts	◆		
Disturbed Ground	◆		
General Quarrying	◆		
Heap, unknown constituents	◆		
Mineral Railway	◆		
Mining and Quarrying General	◆		
Mining of Coal & Lignite	◆		
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	◆		

Historical Land Use

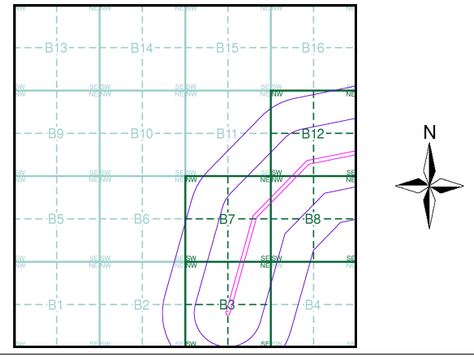
	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	●		
Potentially Infilled Land (Water)	●		
Former Marsh	✠		

Mining Data

Potential Mining Area

BGS Recorded Mineral Site

Mining and Ground Stability - Slice B



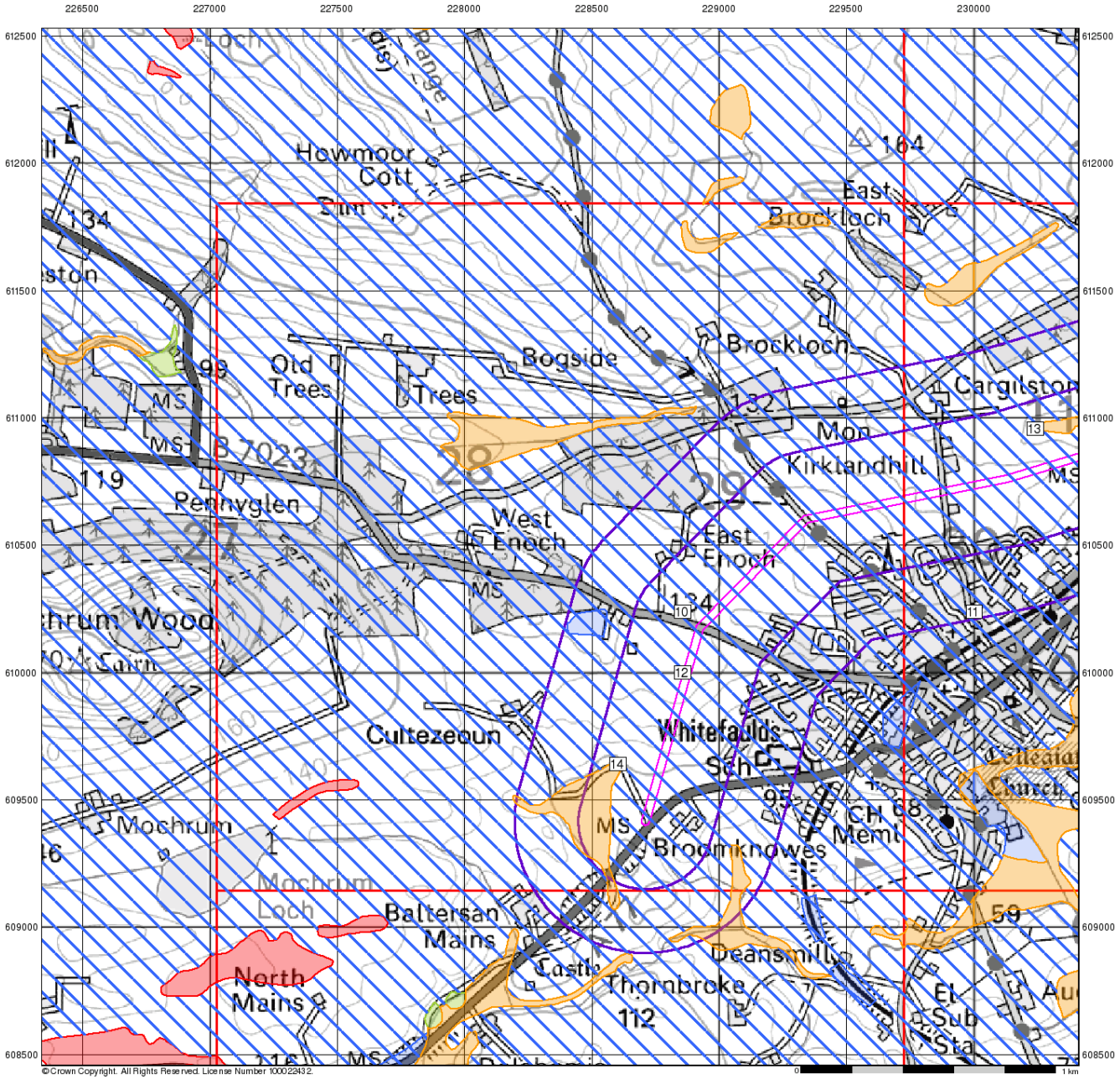
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Potential for Compressible Ground Stability Hazards

High | Low | Moderate | Very Low

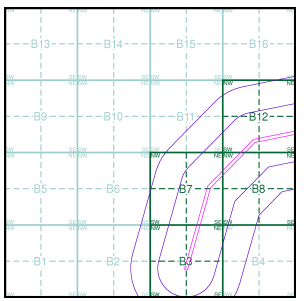
Potential for Collapsible Ground Stability Hazards

High | Low | Moderate | Very Low

Brine Pumping and Salt Mining

	Point	Polygon
Brine Pumping Related Feature	▲	▨
Salt Mining Related Feature	▲	▨

Mining and Ground Stability - Slice B



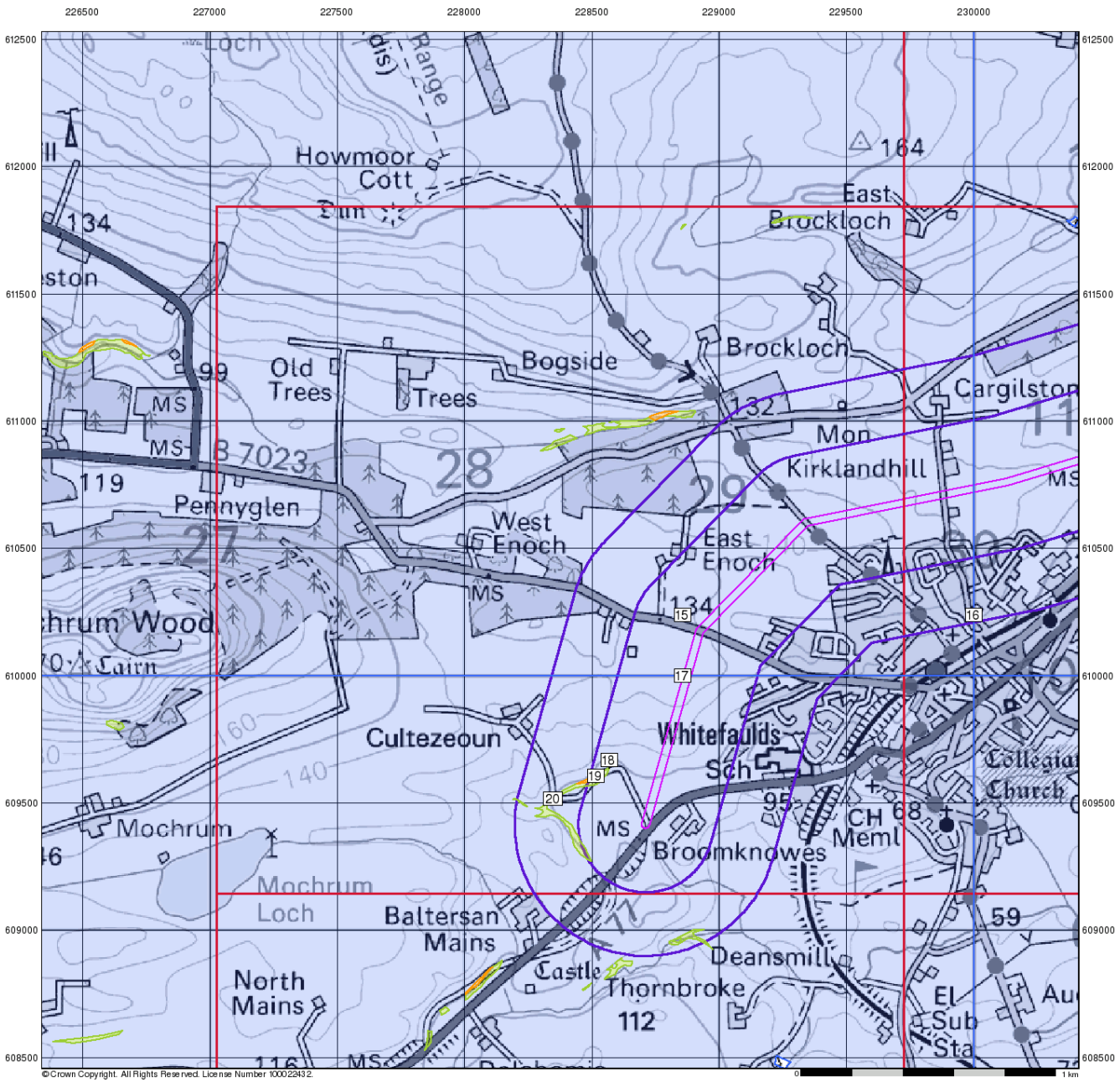
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

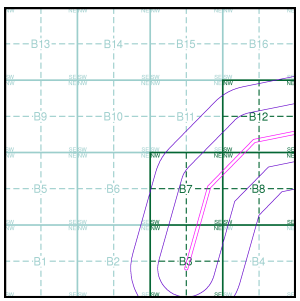
Potential for Landslide Ground Stability Hazards

High | Low
Moderate | Very Low

Potential for Ground Dissolution Stability Hazards

High | Low
Moderate | Very Low

Mining and Ground Stability - Slice B



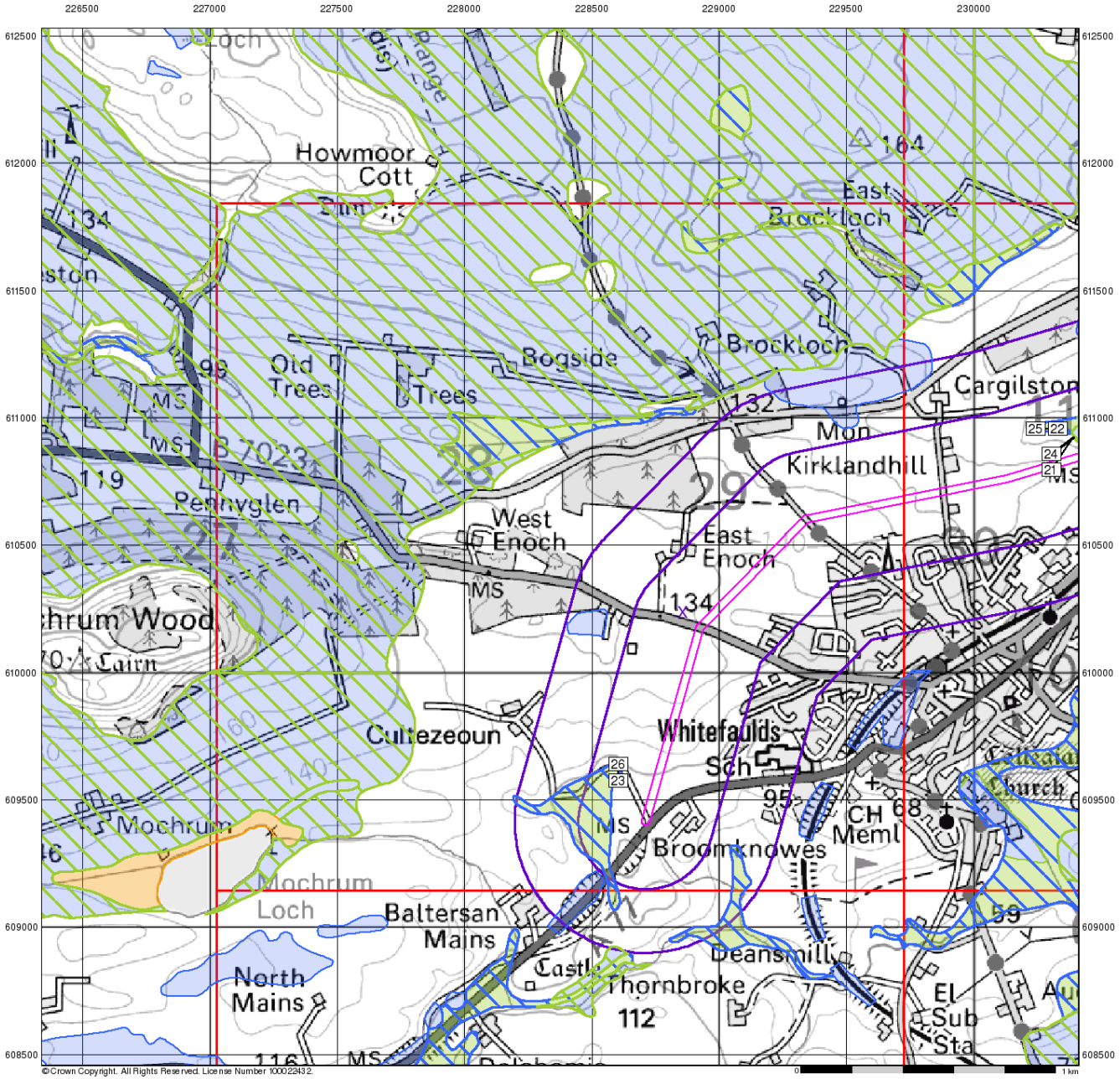
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

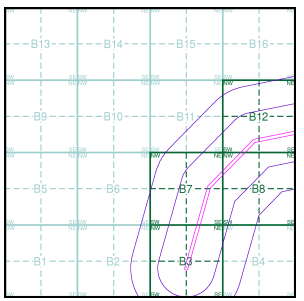
Potential for Running Sand Ground Stability Hazards

High | Low | Moderate | Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

High | Low | Moderate | Very Low

Mining and Ground Stability - Slice B



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Envirocheck® Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:
40002230_1_1

Customer Reference:
Co25000182

National Grid Reference:
228860, 610240

Slice:
B

Site Area (Ha):
16.08

Search Buffer (m):
500

Site Details:

Site at
Maybole
South Ayrshire

Client Details:

Mr M Ayton
Amey OW Ltd
Precision House
1st floor, off McNeil Drive
Europoint Eurocentral
Motherwell
ML1 4UR

Contents

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	-
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	2
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	3
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
Motion Map Data (1:2,500)	-
The Motion Map Data (1:2,500) section contains data which is plotted to indicate long-term stability trends from analysis of satellite radar data.	
Historical Map List	5
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
Data Currency	6
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Report Version v47.0

Envirocheck® Mining

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m
Mining and Natural Cavities Data				
BGS Recorded Mineral Sites	pg 1			1
Coal Mining Affected Areas			n/a	n/a
Man Made Mining Cavities				
Mining Instability			n/a	n/a
Natural Cavities				
Non Coal Mining Areas of Great Britain	pg 1	Yes		n/a
Potential Mining Areas				
Historical Land Use Information (1:2,500)				
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)				n/a
Subterranean Features (100m)				n/a
Historical Land Use Information (1:10,000)				
Air Shafts				
Disturbed Ground				
General Quarrying				
Heap, unknown constituents	pg 2			1
Mineral Railway				
Mining & quarrying general				
Mining of coal & lignite				
Quarrying of sand & clay, operation of sand & gravel pits	pg 2			3
Former Marshes				
Potentially Infilled Land (Non-Water)	pg 2			2
Potentially Infilled Land (Water)	pg 2		1	1

Envirocheck® Mining

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m
Ground Stability Data (1:50,000)				
Brine Compensation Area			n/a	n/a
Brine Pumping Related Features				
Brine Subsidence Solution Area				
Potential for Collapsible Ground Stability Hazards	pg 3	Yes	Yes	n/a
Potential for Compressible Ground Stability Hazards	pg 3	Yes	Yes	n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 3	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards	pg 3	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 4	Yes	Yes	n/a
Salt Mining Related Features				
Subsidence Insurance Claims				n/a
Subsidence Investigations				n/a
Motion Map Data (1:2,500)				
Motion Map (100m)				n/a

Report Version v47.0

Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**BGS Recorded Mineral Sites** Site Name: Kirklandhill Gravel Pit Location: Kirklandhill, Maybole, Ayrshire Source: British Geological Survey, National Geoscience Information Service Reference: 30001 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Glaciofluvial Deposits Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	B12NE (NE)	333	1	229530 610995
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	1	228857 609999
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	1	228857 610237

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Heap, unknown constituents** Use: Not Supplied Date of Mapping: 1987	B7NW (W)	340	-	228560 610228
3	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1859	B12NE (NE)	337	-	229532 610999
4	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1859	B12NE (NE)	450	-	229446 611098
5	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1910 - 1957	B16SE (NE)	475	-	229531 611170
6	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	B12NE (NE)	337	-	229532 610999
7	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	B16SE (NE)	475	-	229531 611170
8	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1897	B7SE (SW)	165	-	228721 610114
9	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1957	B7NW (W)	350	-	228548 610242

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Brine Compensation Area The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
10	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	1	228857 610237
11	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(E)	0	1	230001 610237
12	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	1	228857 609999
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(NE)	88	1	230243 610957
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B3NW (SW)	122	1	228604 609639
13	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(NE)	88	1	230243 610957
14	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B3NW (SW)	122	1	228604 609639
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(E)	0	1	230001 610237
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	1	228857 610237
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	1	228857 609999
	Potential for Ground Dissolution Stability Hazards No Hazard				
15	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	1	228857 610237
16	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(E)	0	1	230001 610237
17	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	1	228857 609999
18	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B3NW (SW)	183	1	228568 609636
19	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B3NW (SW)	225	1	228516 609606
20	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B2NE (SW)	240	1	228345 609515
21	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(NE)	0	1	230392 610922
22	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(NE)	88	1	230243 610957

Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B3NW (SW)	122	1	228604 609639
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	1	228857 610237
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	1	228857 609999
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(E)	0	1	230001 610237
24	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(NE)	0	1	230392 610922
25	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(NE)	88	1	230243 610957
26	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B3NW (SW)	122	1	228604 609639
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7NE (E)	0	1	228857 610237
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(E)	0	1	230001 610237
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B7SE (S)	0	1	228857 609999

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	NS2809	1965
Ordnance Survey Plan	NS2809	1965
Ordnance Survey Plan	NS2810	1965
Ordnance Survey Plan	NS2909	1965
Ordnance Survey Plan	NS2909	1965
Ordnance Survey Plan	NS2909	1965
Ordnance Survey Plan	NS2910	1965
Ordnance Survey Plan	NS2910	1965
Ordnance Survey Plan	NS2910	1965
Ordnance Survey Plan	NS2911	1969

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Ayrshire	038_00	1859
Ayrshire	044_00	1859
Ayrshire	038_SE	1896
Ayrshire	044_NE	1897
Ayrshire	044_NE	1910
Ayrshire	038_SE	1911
Ayrshire	044_NE	1938
Ordnance Survey Plan	NS20NE	1957
Ordnance Survey Plan	NS21SE	1957
1:10,000	**Mapsheet**	**Published Date**
Ordnance Survey Plan	NS20NE	1972
Ordnance Survey Plan	NS21SE	1987

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	August 2011	As notified
Man Made Mining Cavities Peter Brett Associates	November 2011	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Peter Brett Associates	November 2011	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Historical Land Use Information (1:2,500)	**Version**	**Update Cycle**
Subterranean Features Landmark Information Group Limited	January 2012	Bi-Annually
Ground Stability Data (1:50,000)	**Version**	**Update Cycle**
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Subsidence Insurance Claims SP Property Services	May 2011	Quarterly
Subsidence Investigations CET Group	May 2011	Quarterly

Motion Map Data (1:2,500)	Version	Update Cycle
Motion Map		
Nigel Press Associates - Hampshire	February 2011	As notified
Nigel Press Associates - Cambridge	January 2011	As notified
Nigel Press Associates - Ipswich	January 2011	As notified
Nigel Press Associates - Norwich	January 2011	As notified
Nigel Press Associates - Peterborough	January 2011	As notified
Nigel Press Associates - Barnstaple	July 2010	As notified
Nigel Press Associates - Derbyshire	July 2010	As notified
Nigel Press Associates - Humberside	July 2010	As notified
Nigel Press Associates - Kent	July 2010	As notified
Nigel Press Associates - Lincolnshire	July 2010	As notified
Nigel Press Associates - Nottinghamshire	July 2010	As notified
Nigel Press Associates - Birmingham	May 2009	As notified
Nigel Press Associates - Bournemouth	May 2009	As notified
Nigel Press Associates - Brighton	May 2009	As notified
Nigel Press Associates - Bristol	May 2009	As notified
Nigel Press Associates - Cardiff	May 2009	As notified
Nigel Press Associates - Central London	May 2009	As notified
Nigel Press Associates - Cheltenahm	May 2009	As notified
Nigel Press Associates - Coventry	May 2009	As notified
Nigel Press Associates - Crawley	May 2009	As notified
Nigel Press Associates - Edinburgh	May 2009	As notified
Nigel Press Associates - Exeter	May 2009	As notified
Nigel Press Associates - Glasgow	May 2009	As notified
Nigel Press Associates - Isle of Wight	May 2009	As notified
Nigel Press Associates - Leeds	May 2009	As notified
Nigel Press Associates - Leicester	May 2009	As notified
Nigel Press Associates - Liverpool	May 2009	As notified
Nigel Press Associates - Manchester	May 2009	As notified
Nigel Press Associates - Milton Keynes	May 2009	As notified
Nigel Press Associates - Newcastle	May 2009	As notified
Nigel Press Associates - Northwich	May 2009	As notified
Nigel Press Associates - Nottingham	May 2009	As notified
Nigel Press Associates - Oxford	May 2009	As notified
Nigel Press Associates - Plymouth	May 2009	As notified
Nigel Press Associates - Portsmouth	May 2009	As notified
Nigel Press Associates - Preston	May 2009	As notified
Nigel Press Associates - Reading	May 2009	As notified
Nigel Press Associates - Sheffield	May 2009	As notified
Nigel Press Associates - Stoke	May 2009	As notified
Nigel Press Associates - Swindon	May 2009	As notified
Nigel Press Associates - Tonbridge	May 2009	As notified
Nigel Press Associates - North London	November 2008	As notified
Nigel Press Associates - Head Office	September 2008	As notified

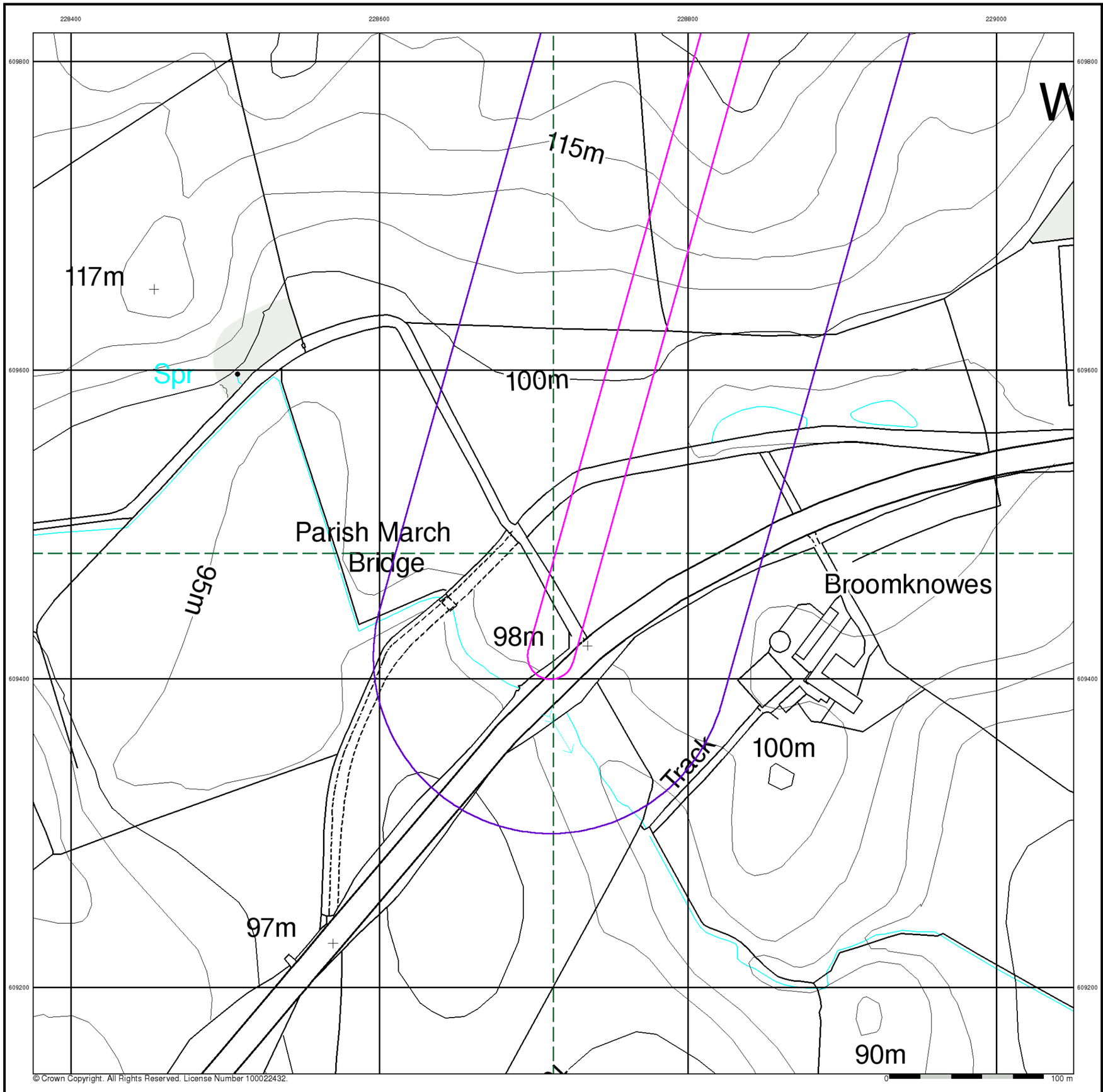
Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Ordnance Survey Licensed Partner
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	THE COAL AUTHORITY
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett
Wardell Armstrong	wardell armstrong your earth our world
Johnson Poole & Bloomer	JPB

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	**Landmark Information Group Limited** The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk



Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

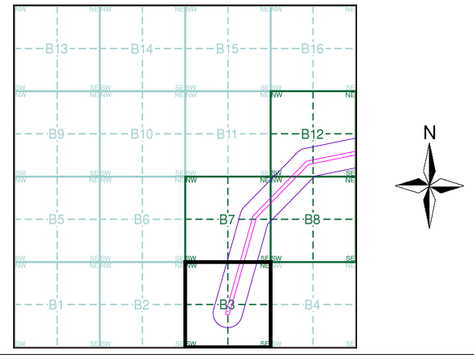
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▤
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment B3



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

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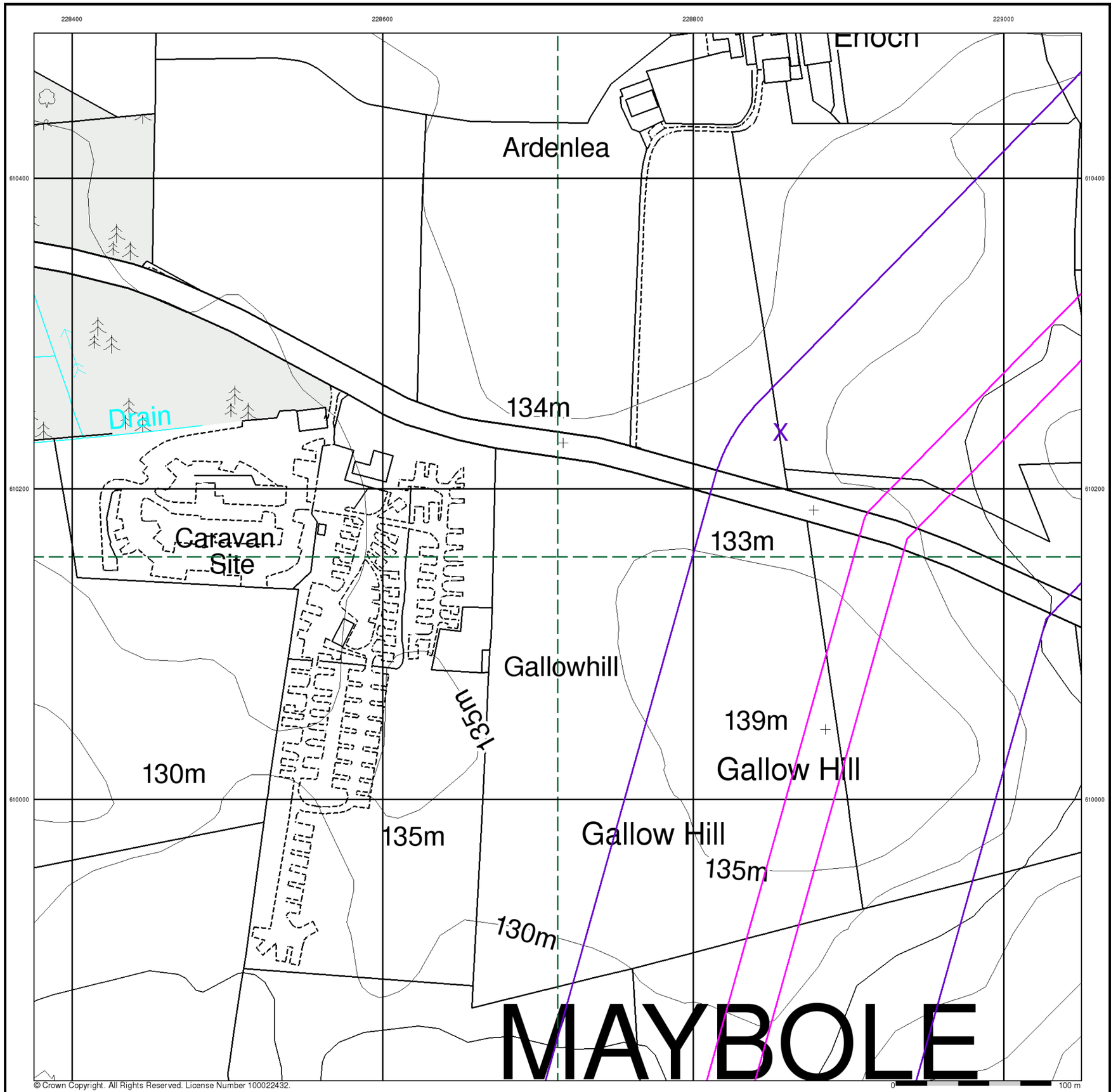
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | X Bearing Reference Point | Map ID

Several of Type at Location

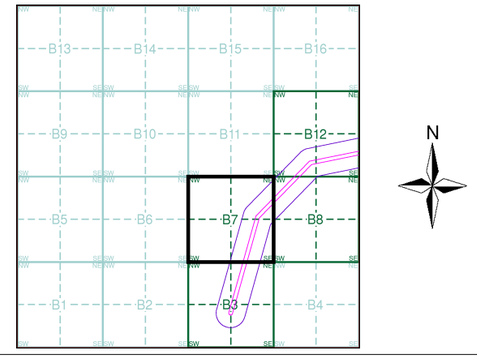
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment B7



Order Details

Order Number:	40002230_1_1
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National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Plot Buffer (m):	100

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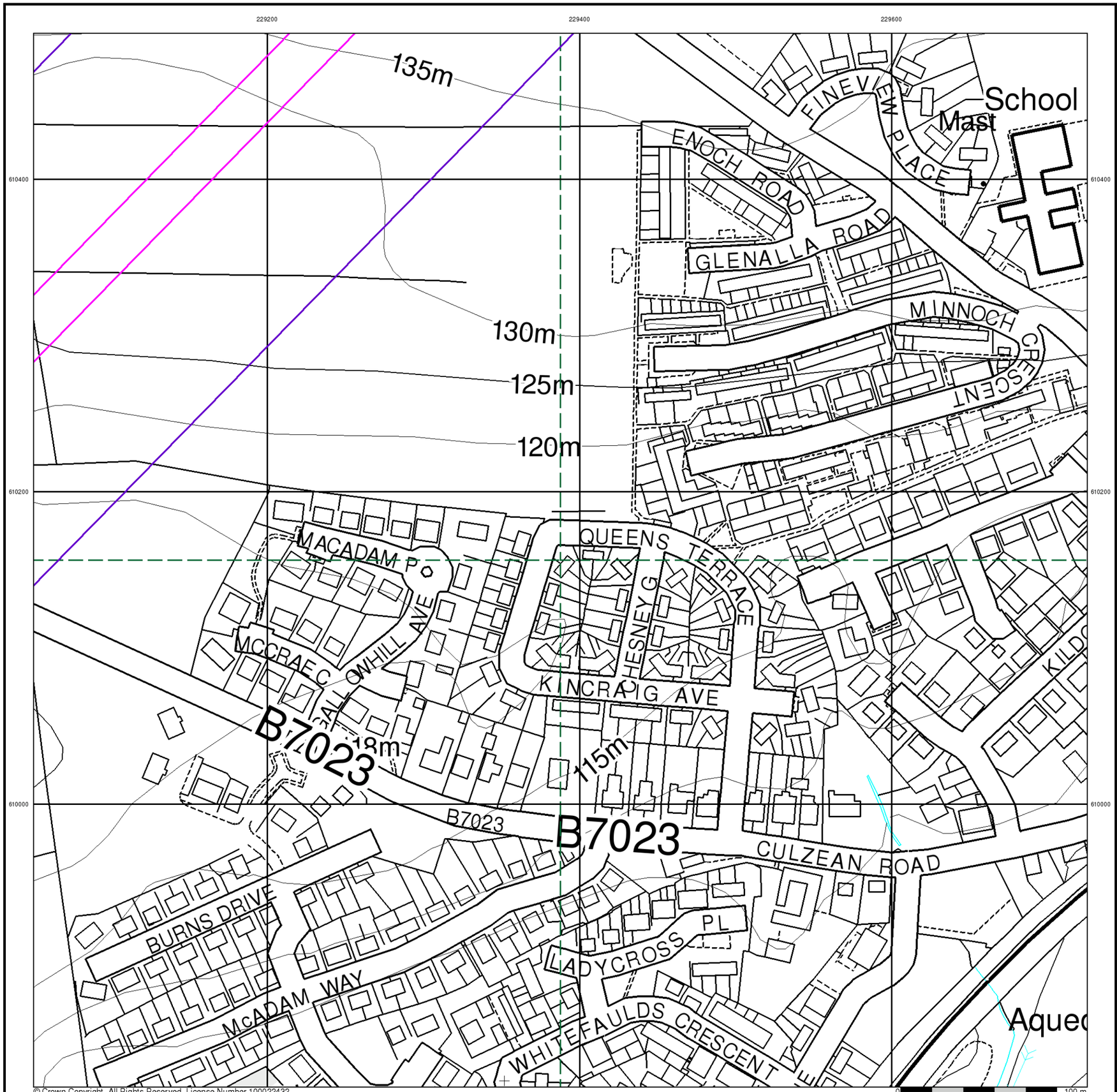


Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

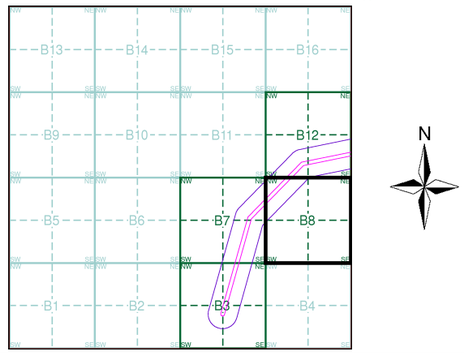
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment B8



Order Details

Order Number:	40002230_1_1
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National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
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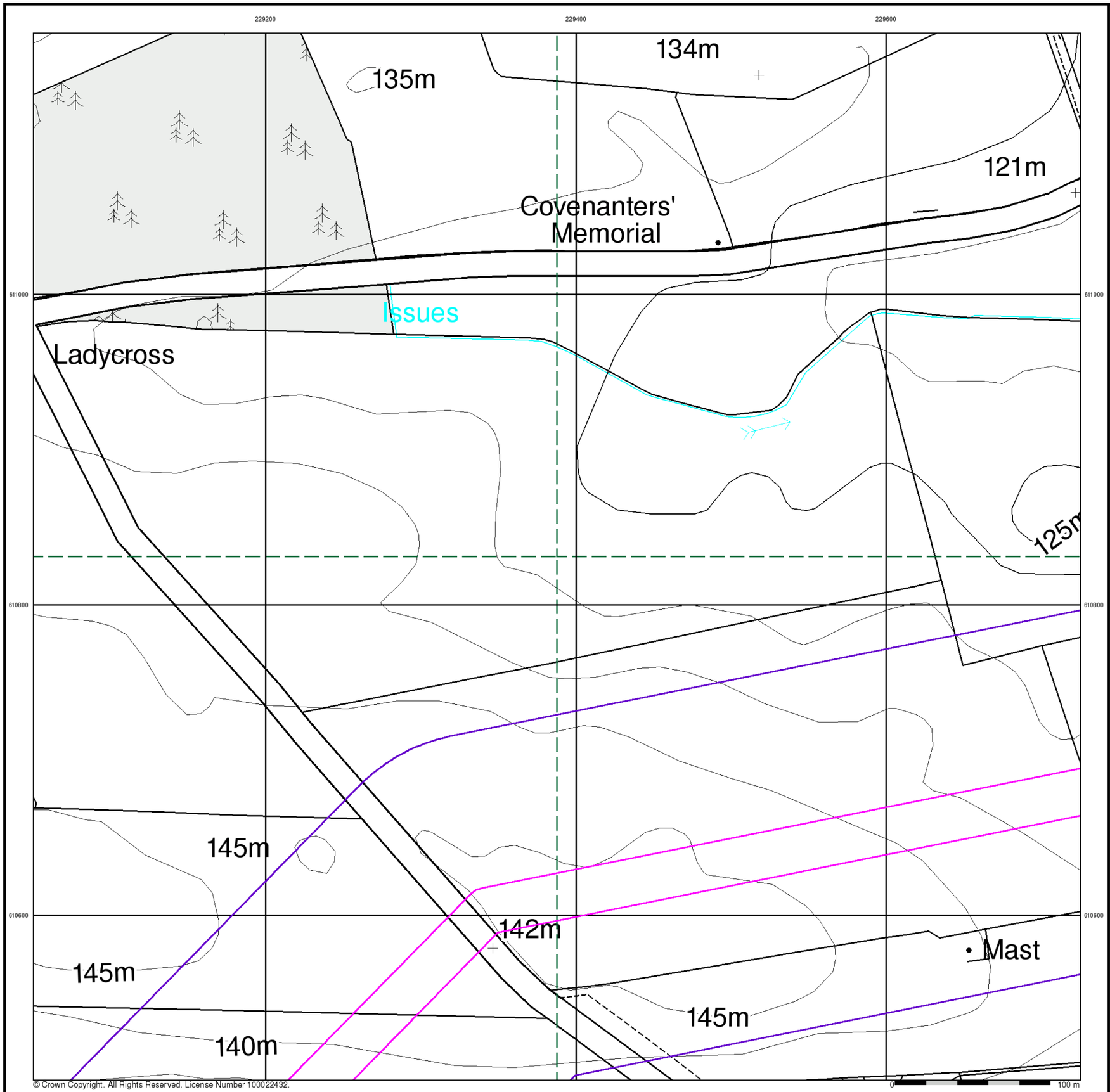
Web: www.envirocheck.co.uk



Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

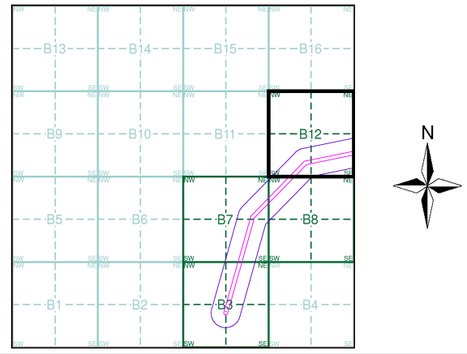
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment B12



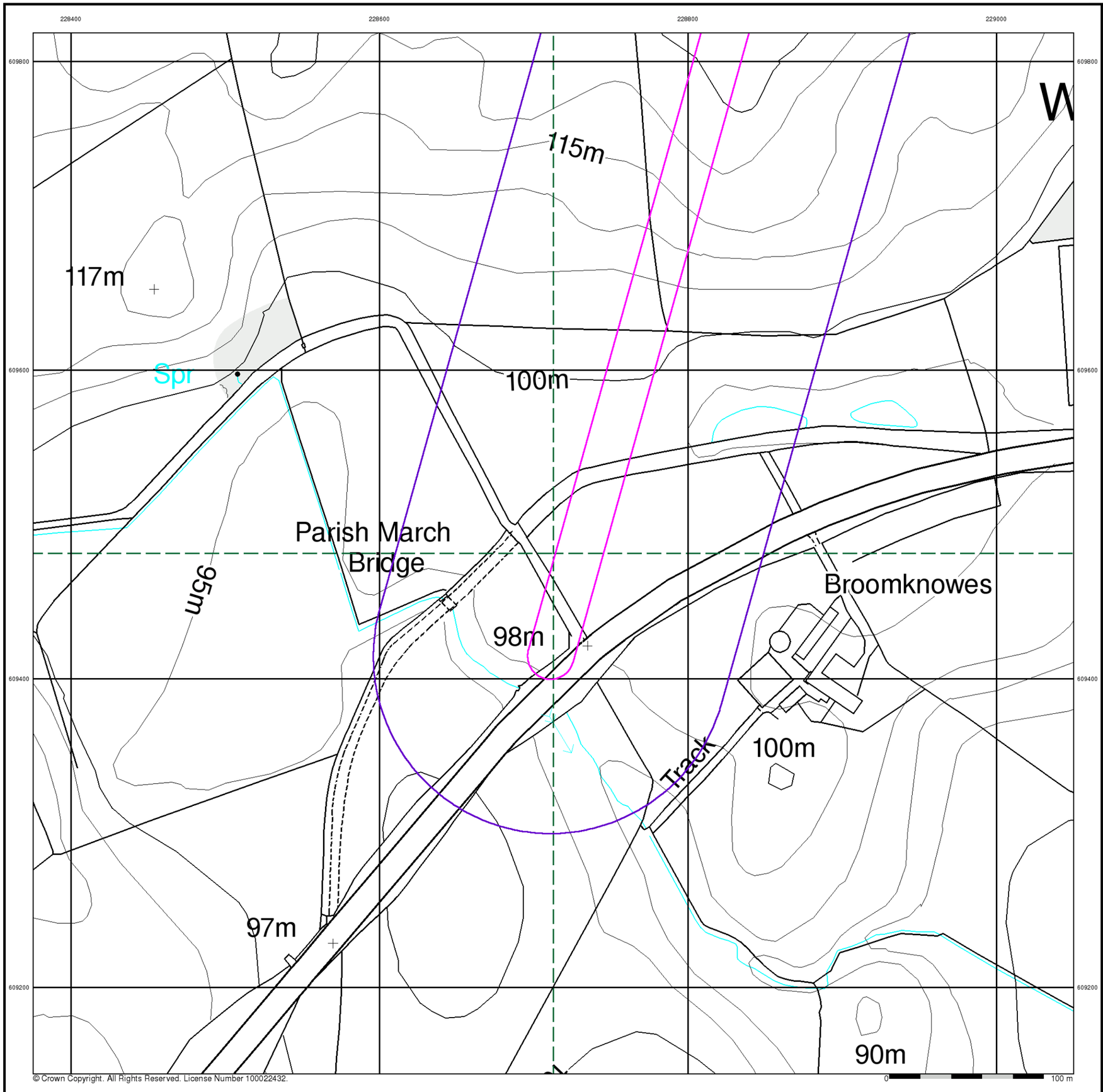
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Motion Map Data (1:2,500)

General

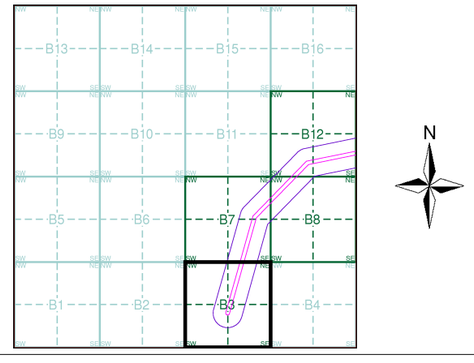
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

Upward Movement > 3.5mm per year	
Upward Movement 1.5mm to 3.5mm per year	
Stable 1.5mm to -1.5mm per year	
Downward Movement -1.5mm to -3.5mm per year	
Downward Movement > -3.5mm per year	

Mining and Ground Stability - Segment B3



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

Site at, Maybole, South Ayrshire

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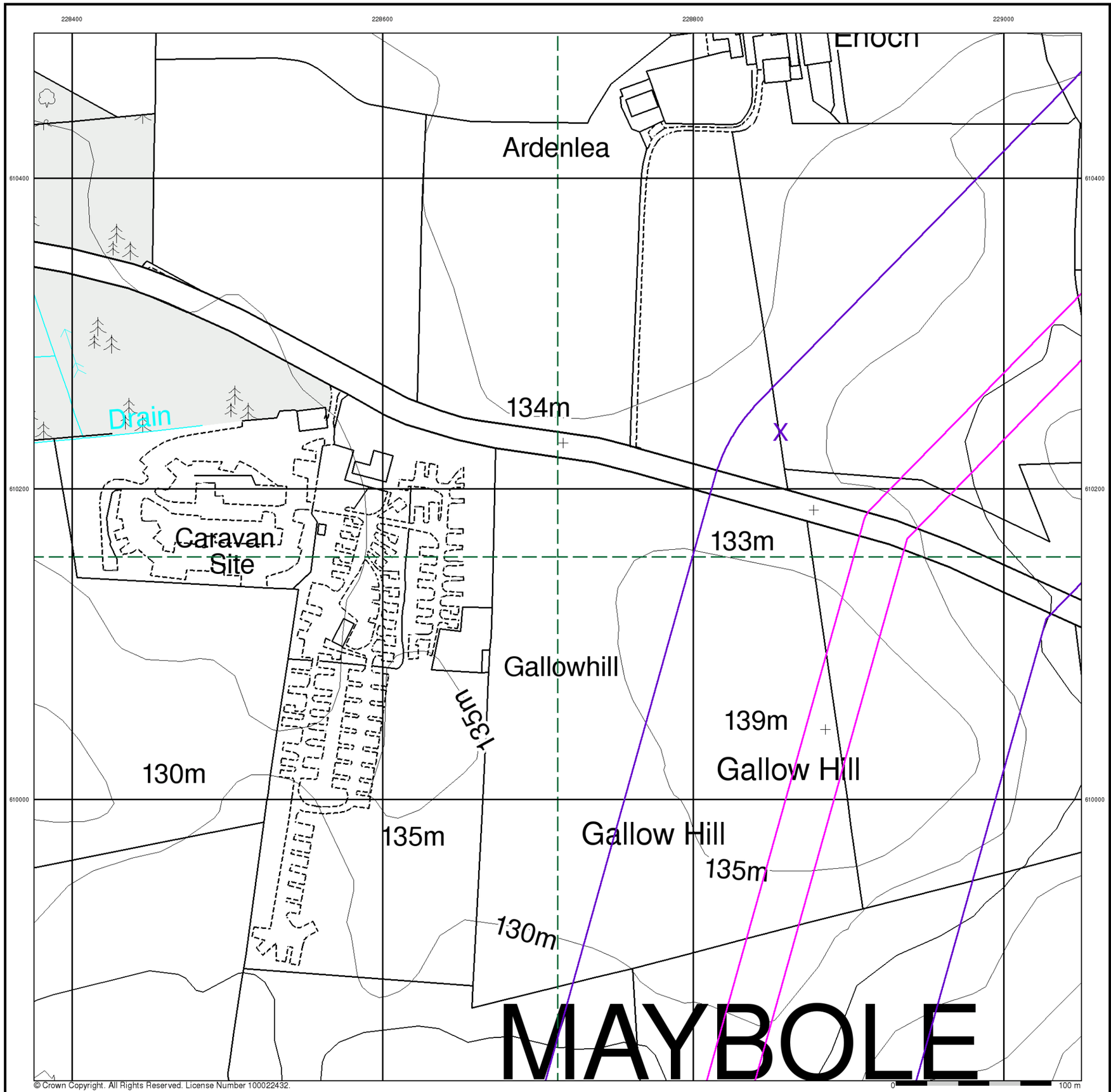
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Motion Map Data (1:2,500)

General

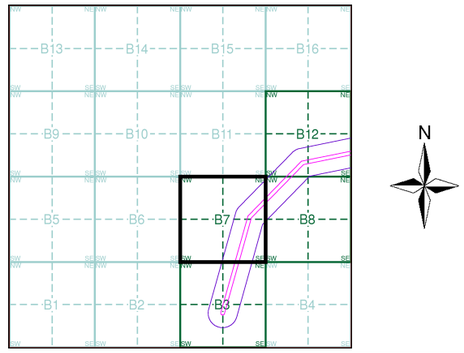
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment B7



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

Site at, Maybole, South Ayrshire

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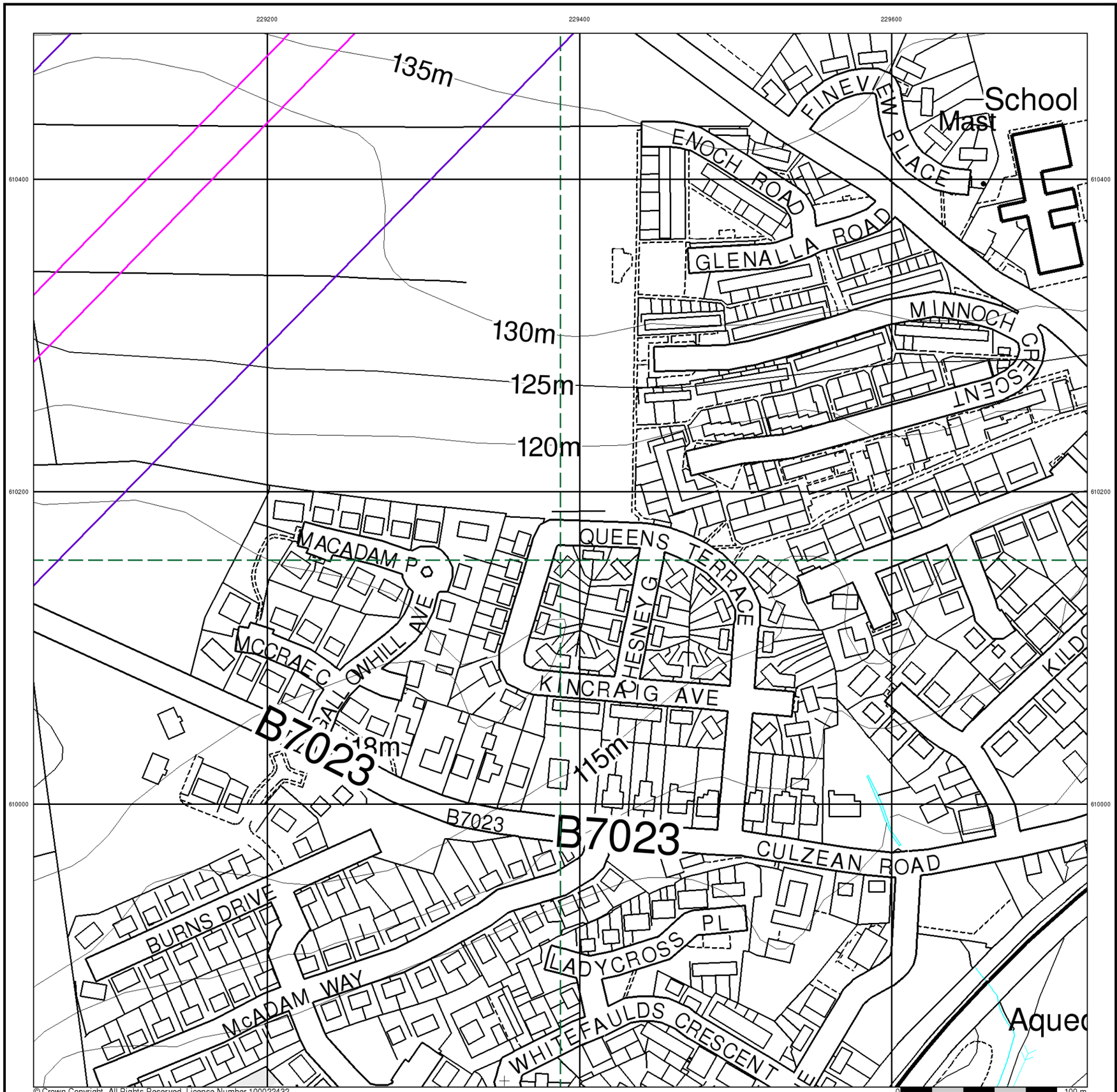


Envirocheck® Mining

Motion Map Data (1:2,500)

General

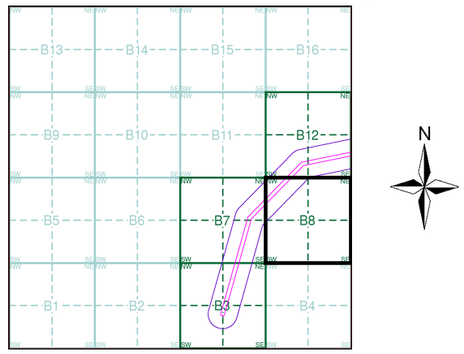
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment B8



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

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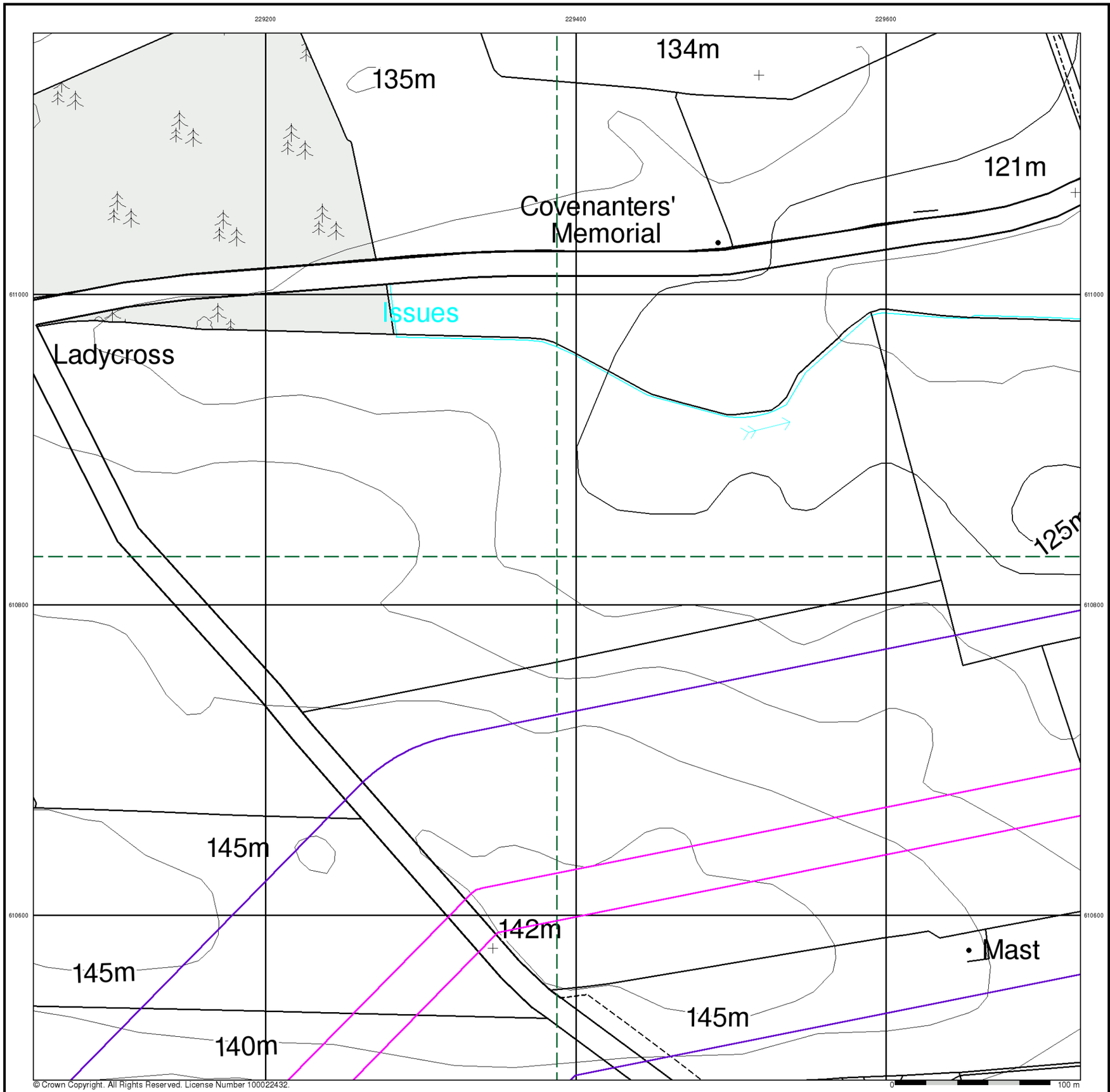


Envirocheck® Mining

Motion Map Data (1:2,500)

General

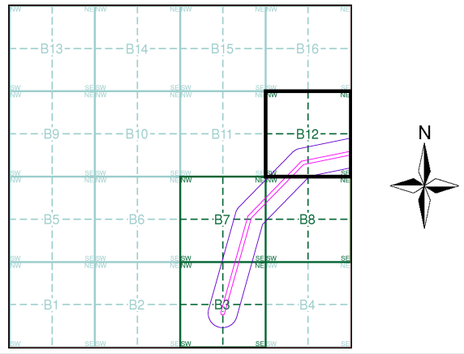
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment B12



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

Site at, Maybole, South Ayrshire

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

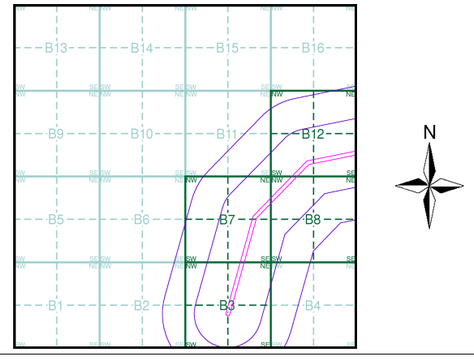
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

Envirocheck®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Ayrshire	1:10,560	1859	2
Ayrshire	1:10,560	1896 - 1897	3
Ayrshire	1:10,560	1910 - 1911	4
Ayrshire	1:10,560	1938	5
Historical Aerial Photography	1:10,560	1946	6
Ordnance Survey Plan	1:10,000	1957	7
Ordnance Survey Plan	1:10,000	1971 - 1972	8
Ordnance Survey Plan	1:10,000	1987	9
10K Raster Mapping	1:10,000	2006	10
10K Raster Mapping	1:10,000	2012	11

Historical Map - Slice B



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

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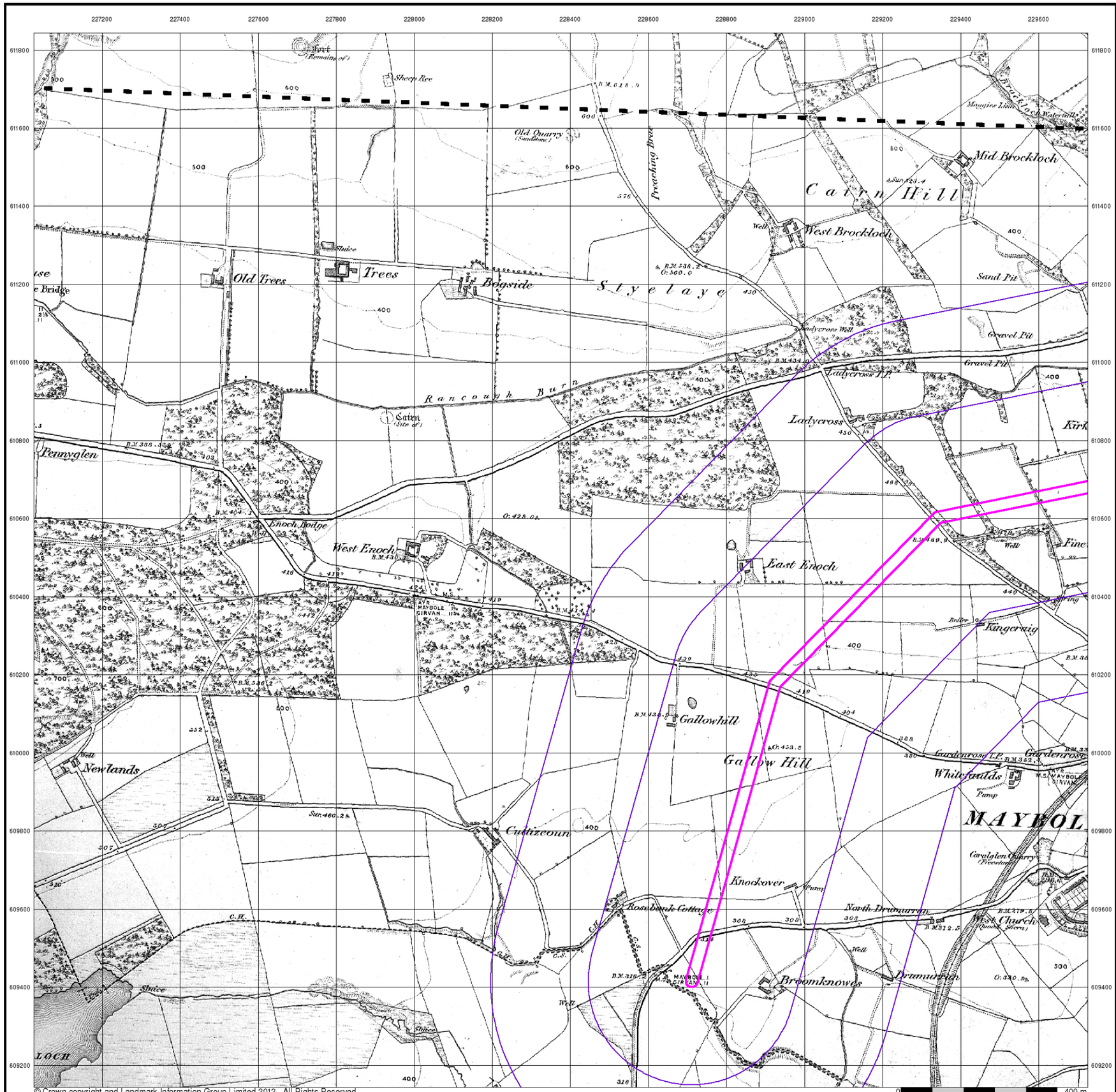

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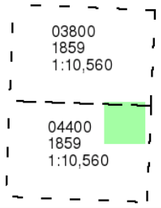
Ayrshire

Published 1859

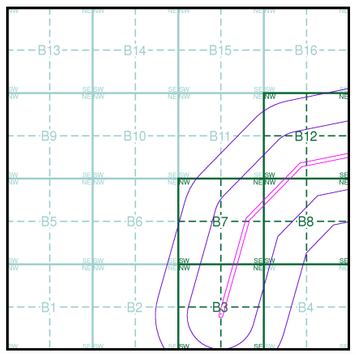
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

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Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

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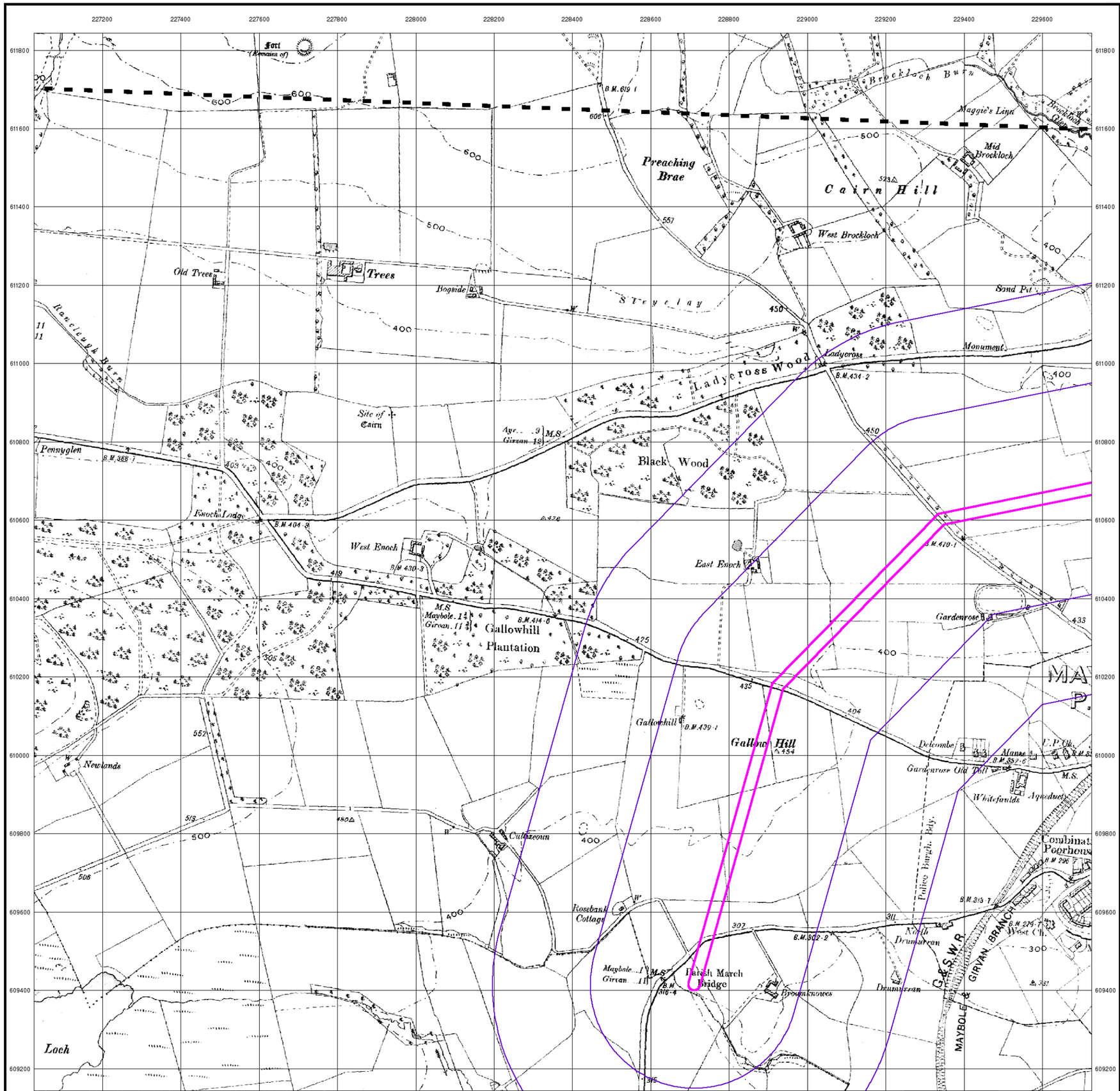


Envirocheck®

Ayrshire

Published 1896 - 1897

Source map scale - 1:10,560

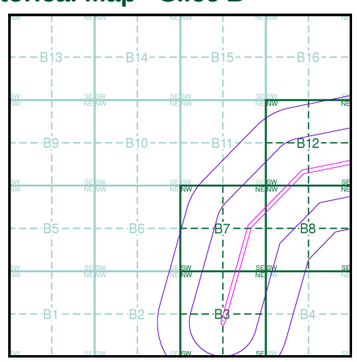
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

038SE
1896
1:10,560

044NE
1897
1:10,560

Historical Map - Slice B



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

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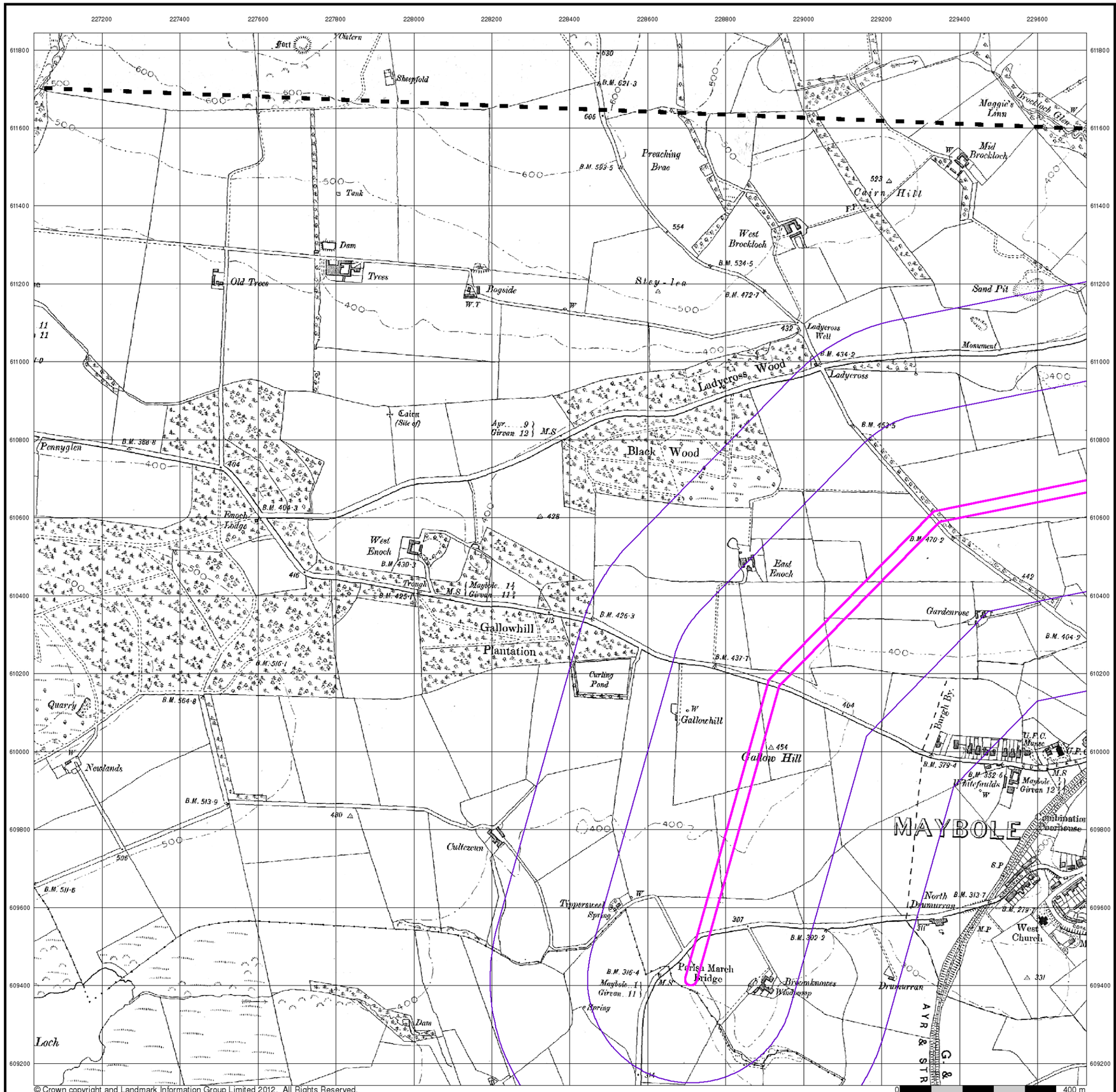


Envirocheck®

Ayrshire

Published 1910 - 1911

Source map scale - 1:10,560

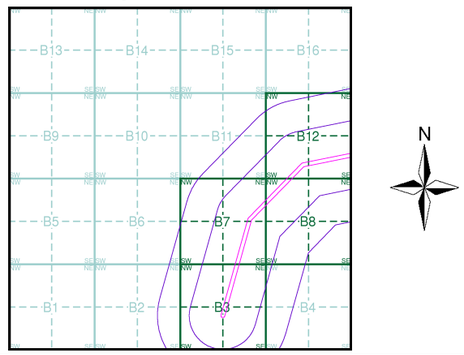
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

038SE
1911
1:10,560

044NE
1910
1:10,560

Historical Map - Slice B



Order Details

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Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

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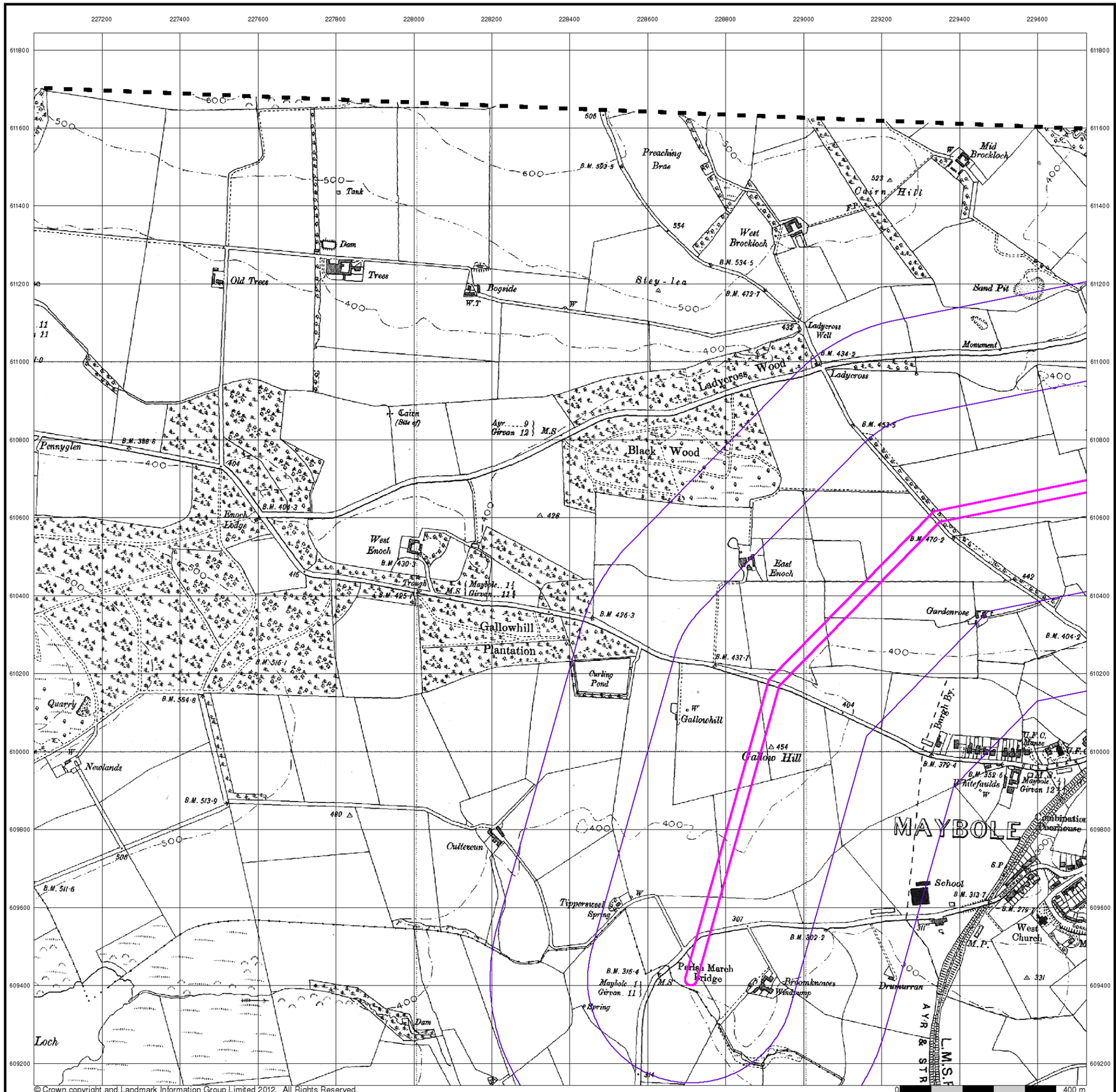


Envirocheck®

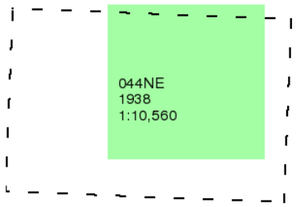
Ayrshire

Published 1938

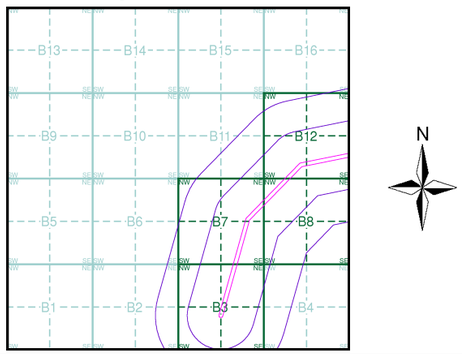
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

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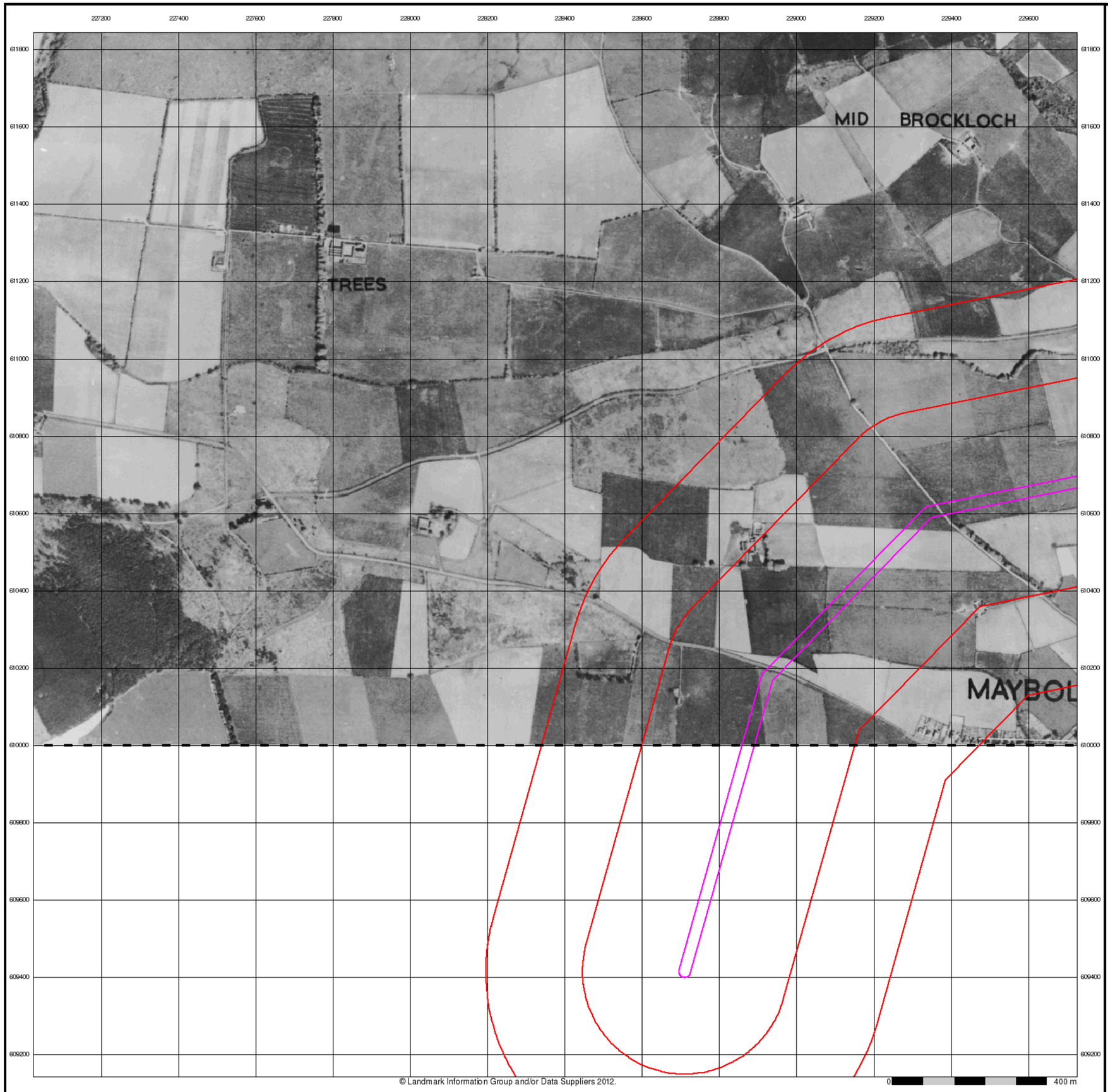


Envirocheck®

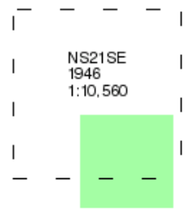
Historical Aerial Photography

Published 1946

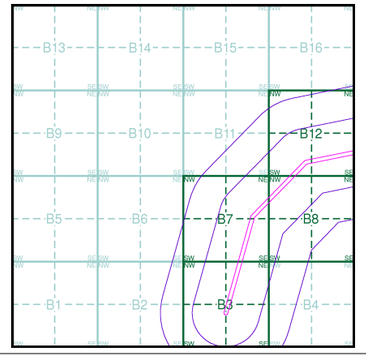
Source map scale - 1:10,560

The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

Map Name(s) and Date(s)



Historical Aerial Photography - Slice B



Order Details

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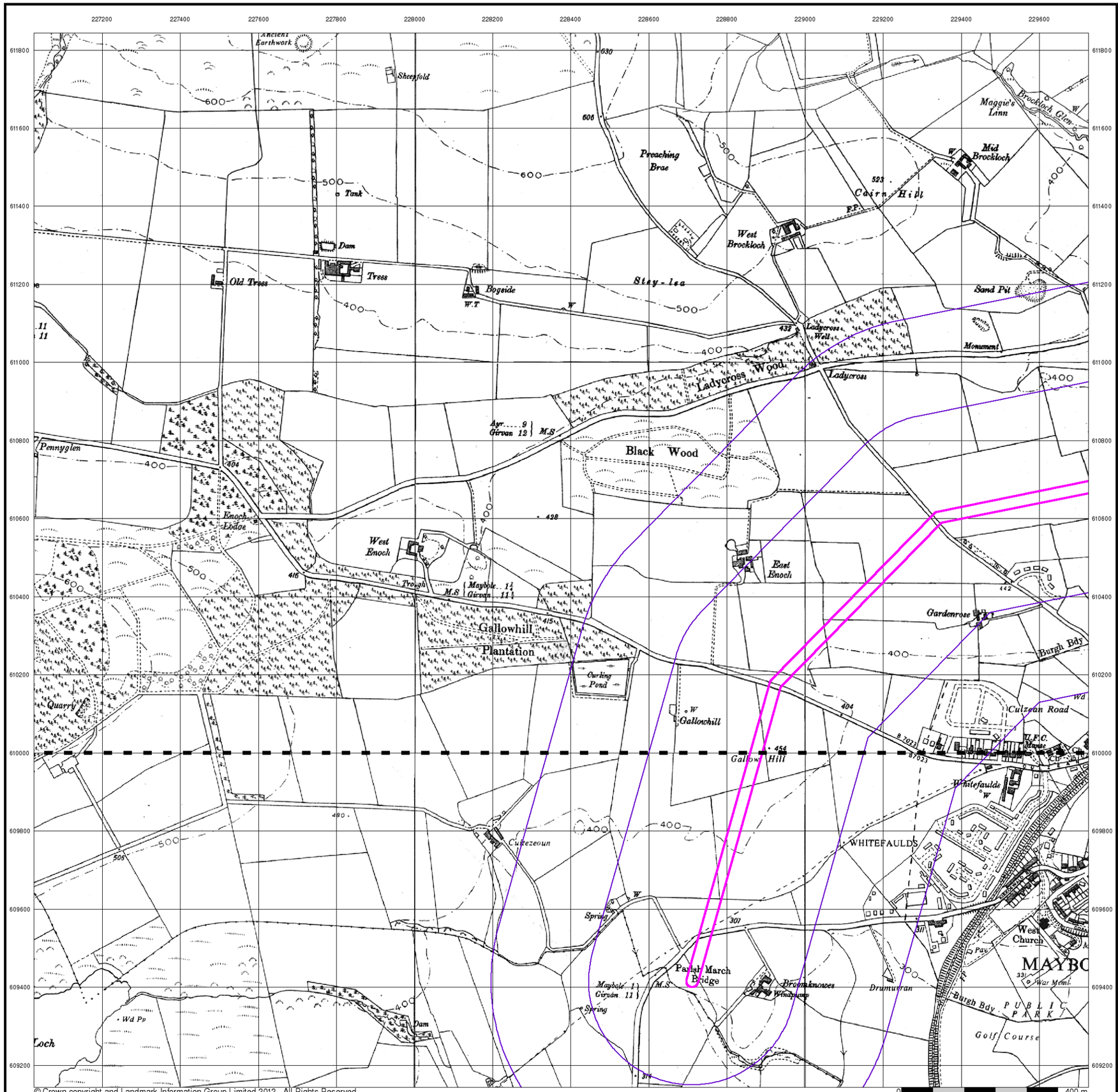

Envirocheck®

Ordnance Survey Plan

Published 1957

Source map scale - 1:10,000

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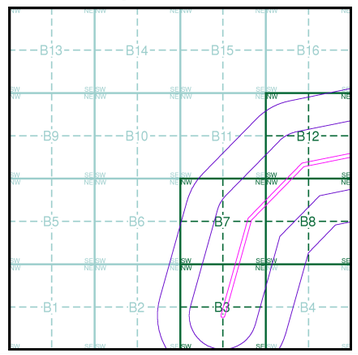
Map Name(s) and Date(s)

NS21SE
1957
1:10,560

NS20NE
1957
1:10,560

Historical Map - Slice B



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

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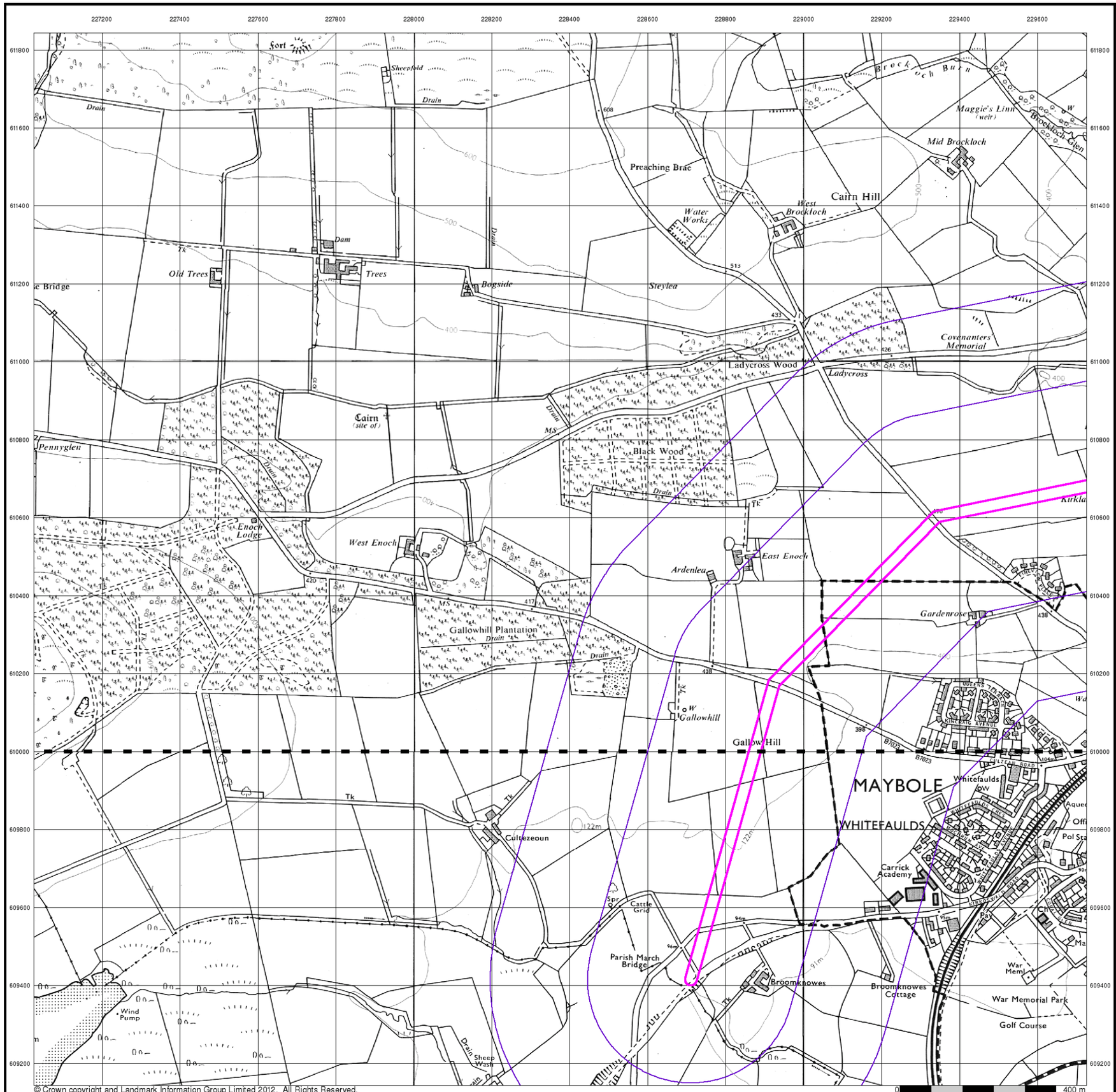


Envirocheck®

Ordnance Survey Plan

Published 1971 - 1972

Source map scale - 1:10,000

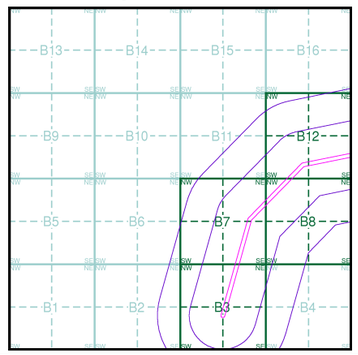
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

NS21SE
1971
1:10,560

NS20NE
1972
1:10,000

Historical Map - Slice B



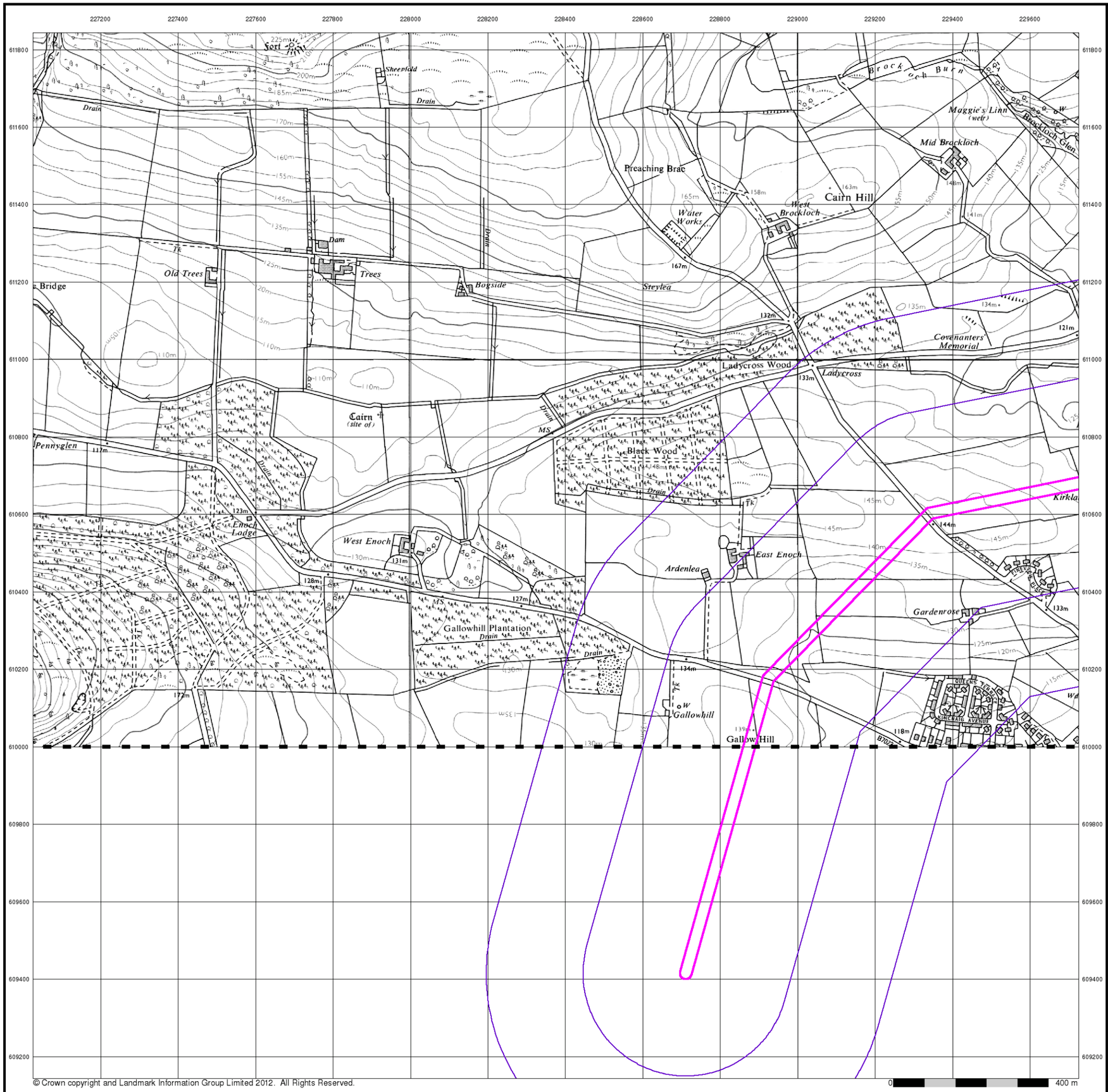
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

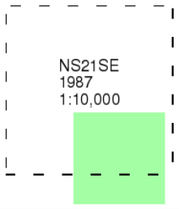
Ordnance Survey Plan

Published 1987

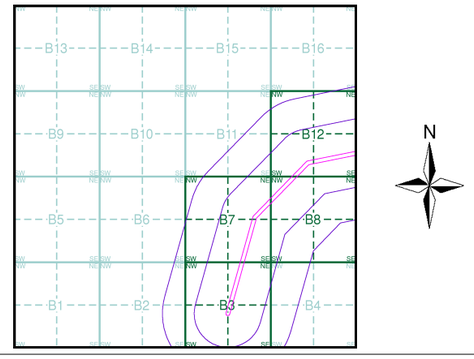
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice B



Order Details

Order Number:	40002230_1_1
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Site Details

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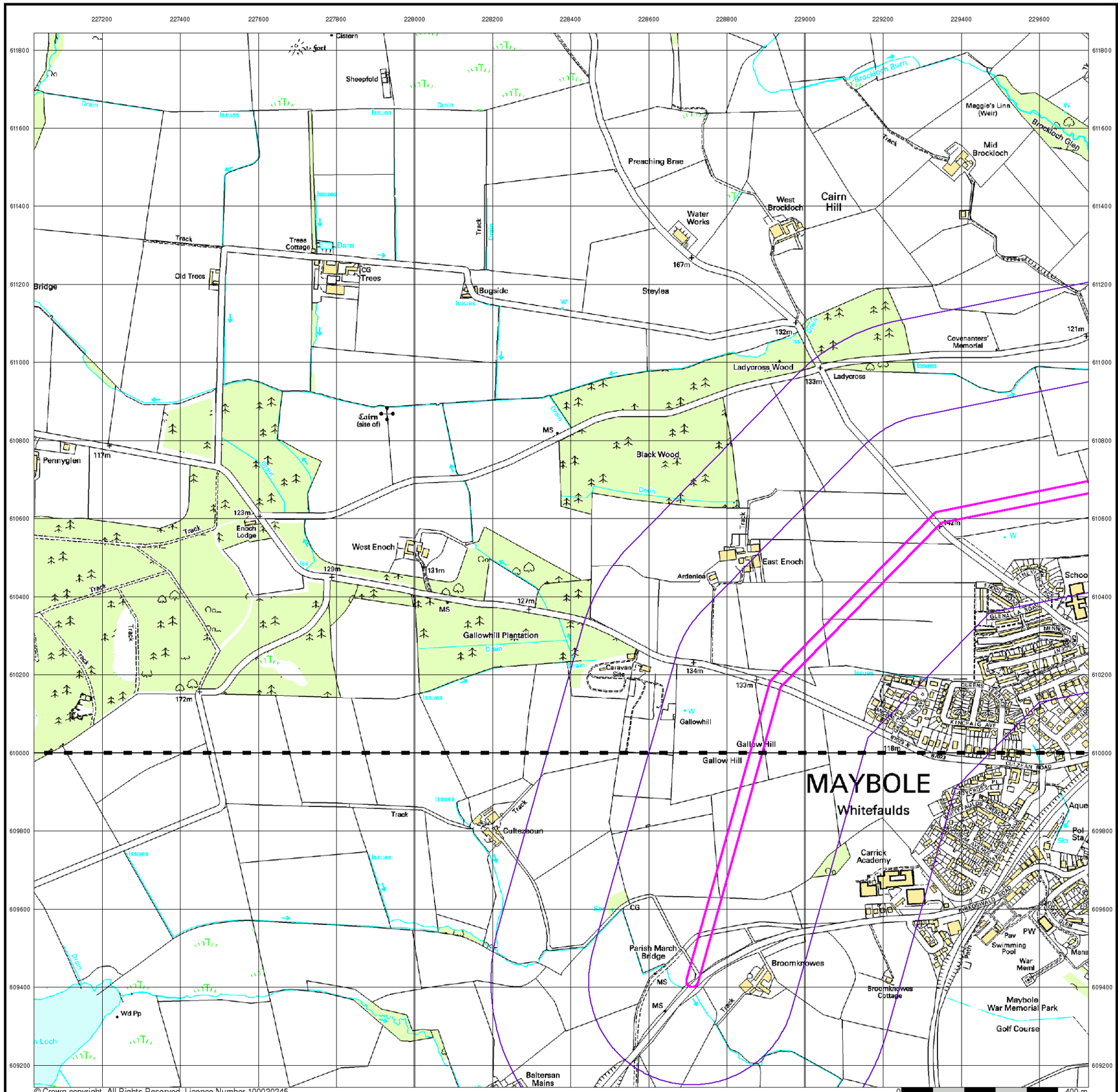


Envirocheck®

10k Raster Mapping

Published 2006

Source map scale - 1:10,000

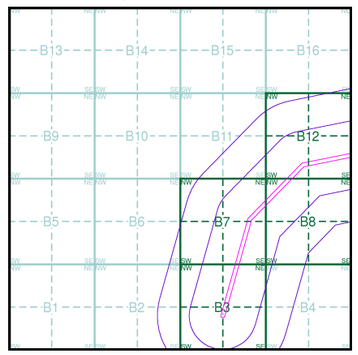
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

NS21SE
2006
1:10,000

NS20NE
2006
1:10,000

Historical Map - Slice B



N

Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

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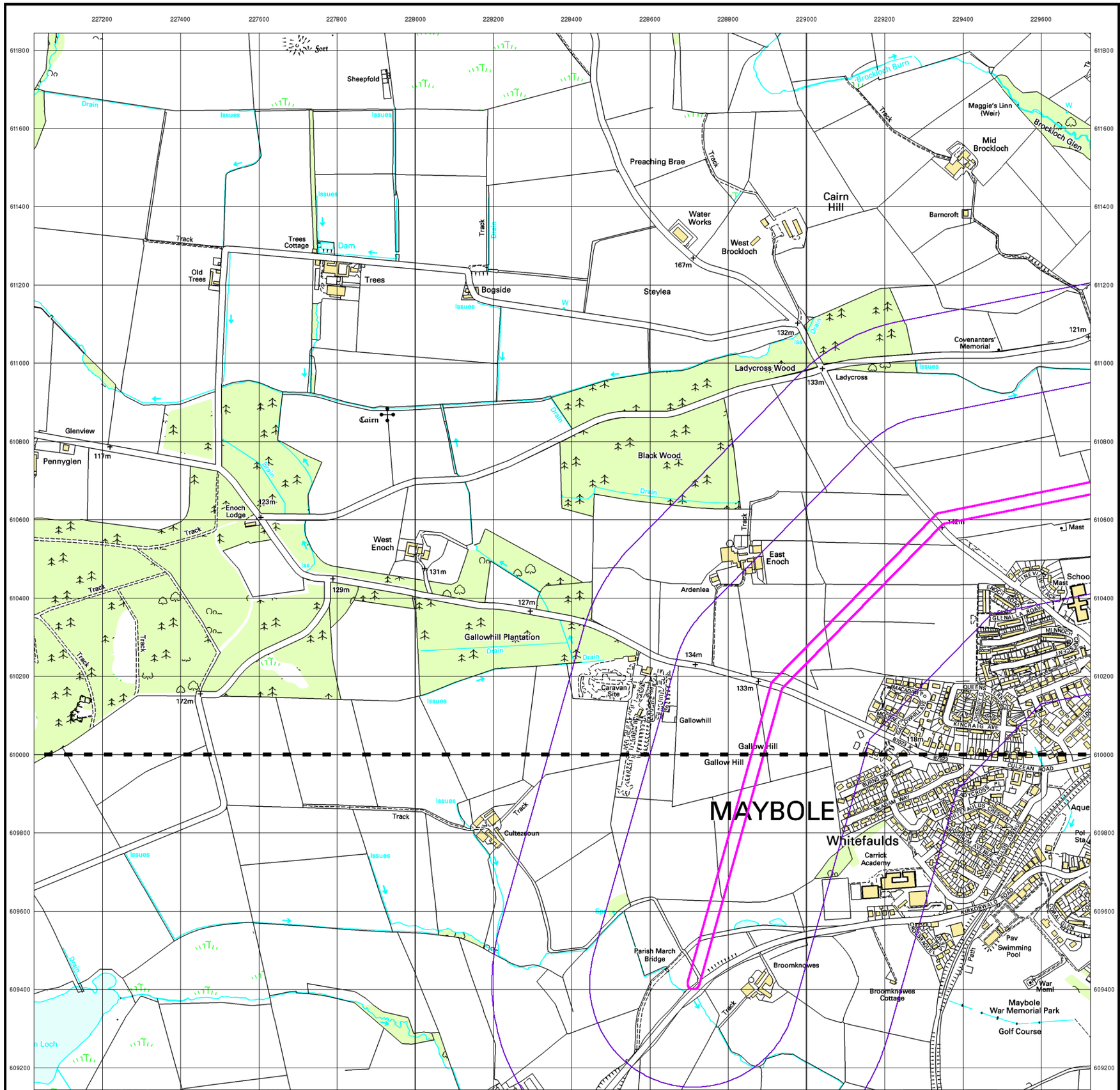


Envirocheck®

10k Raster Mapping

Published 2012

Source map scale - 1:10,000

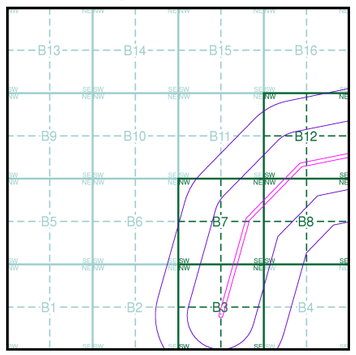
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

NS21SE
2012
1:10,000

NS20NE
2012
1:10,000

Historical Map - Slice B



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

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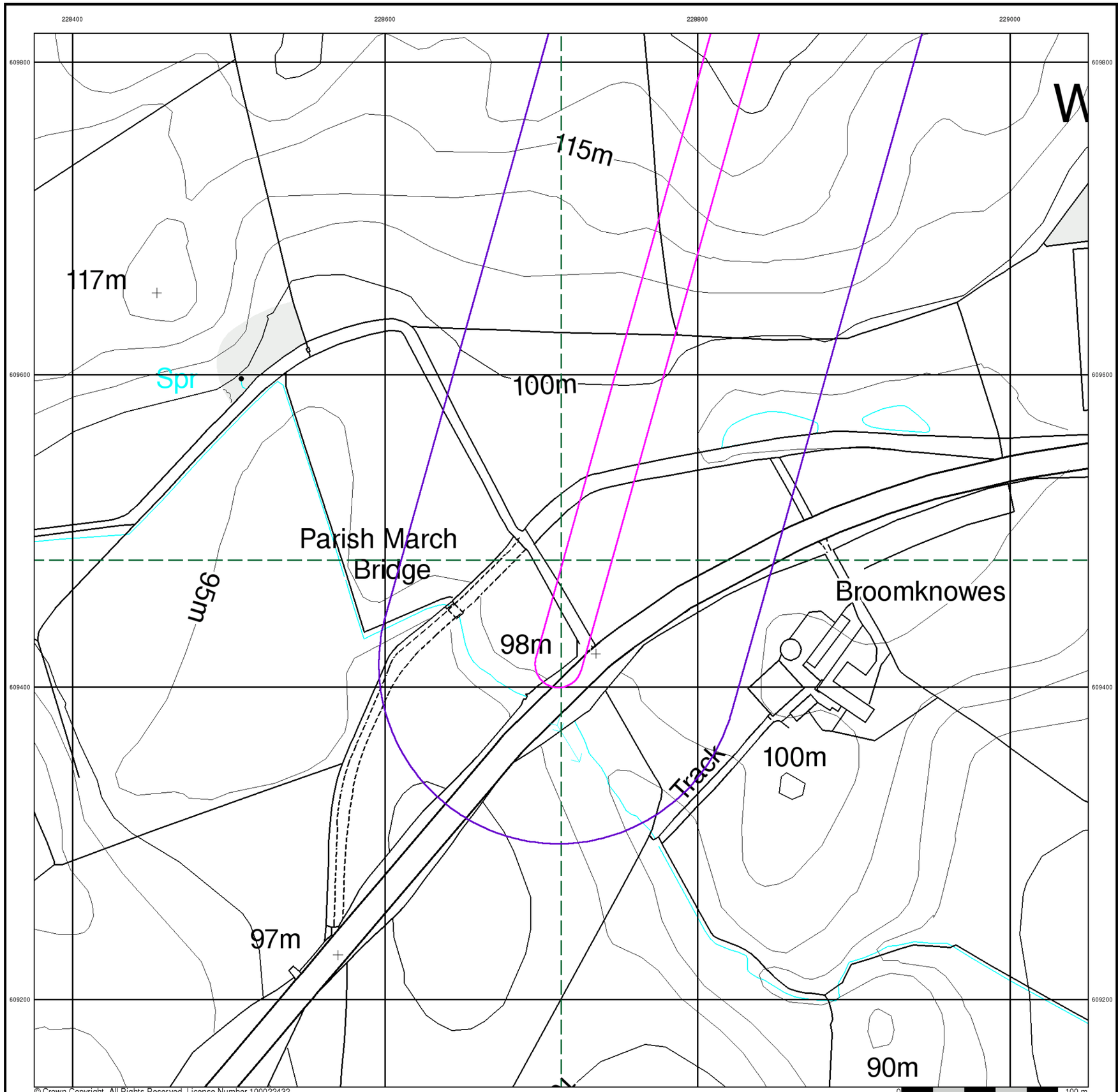


Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

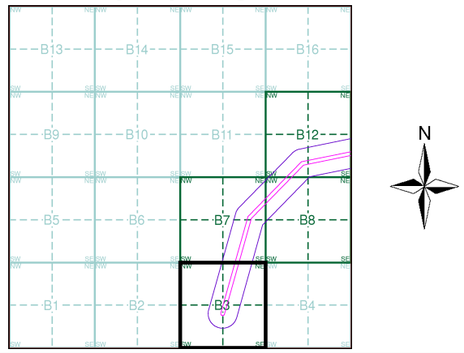
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment B3



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

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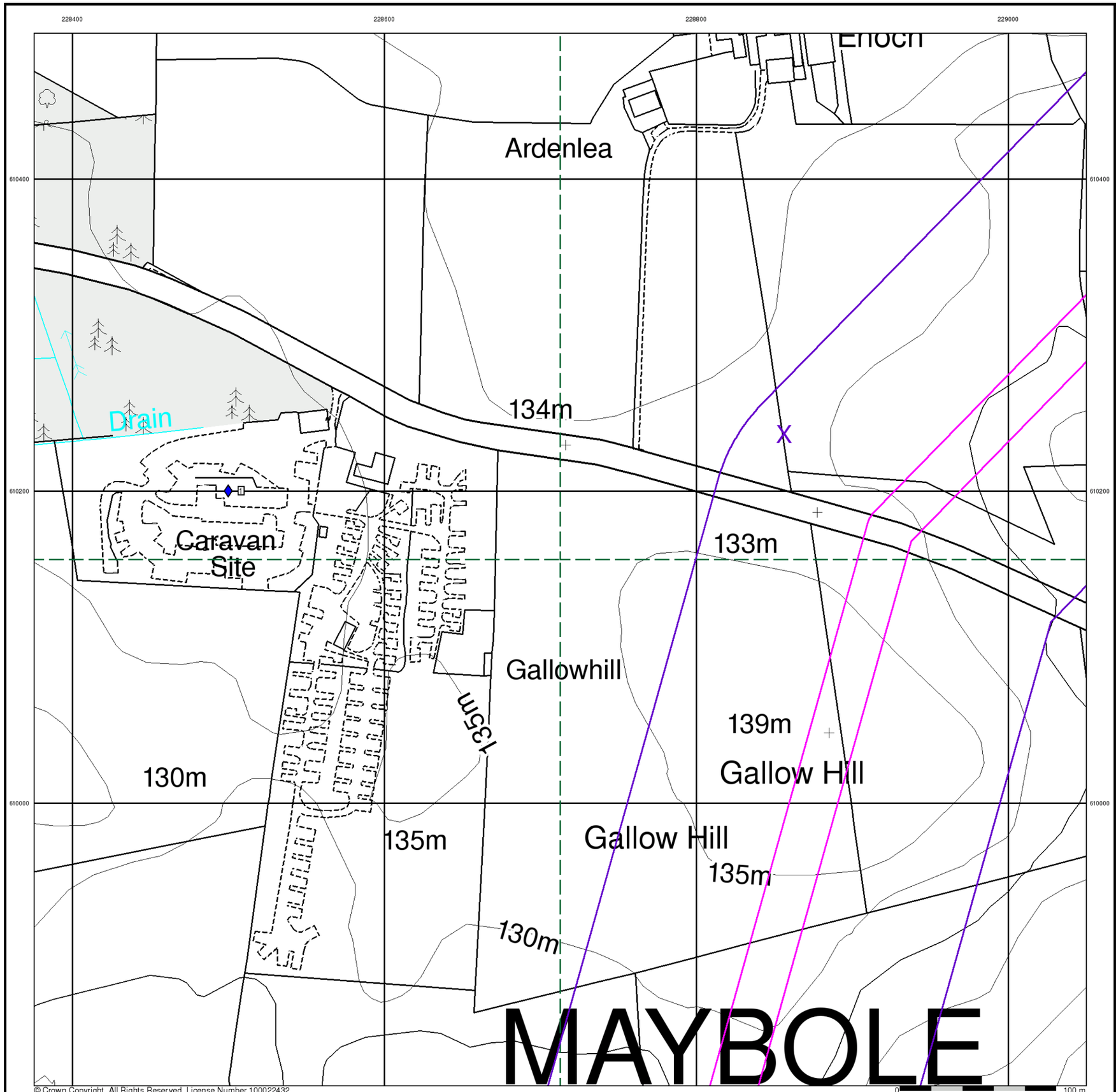
Web: www.envirocheck.co.uk



Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

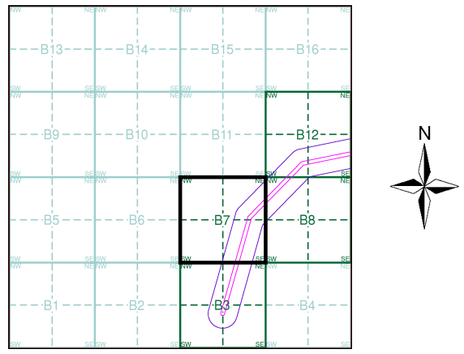
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment B7



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

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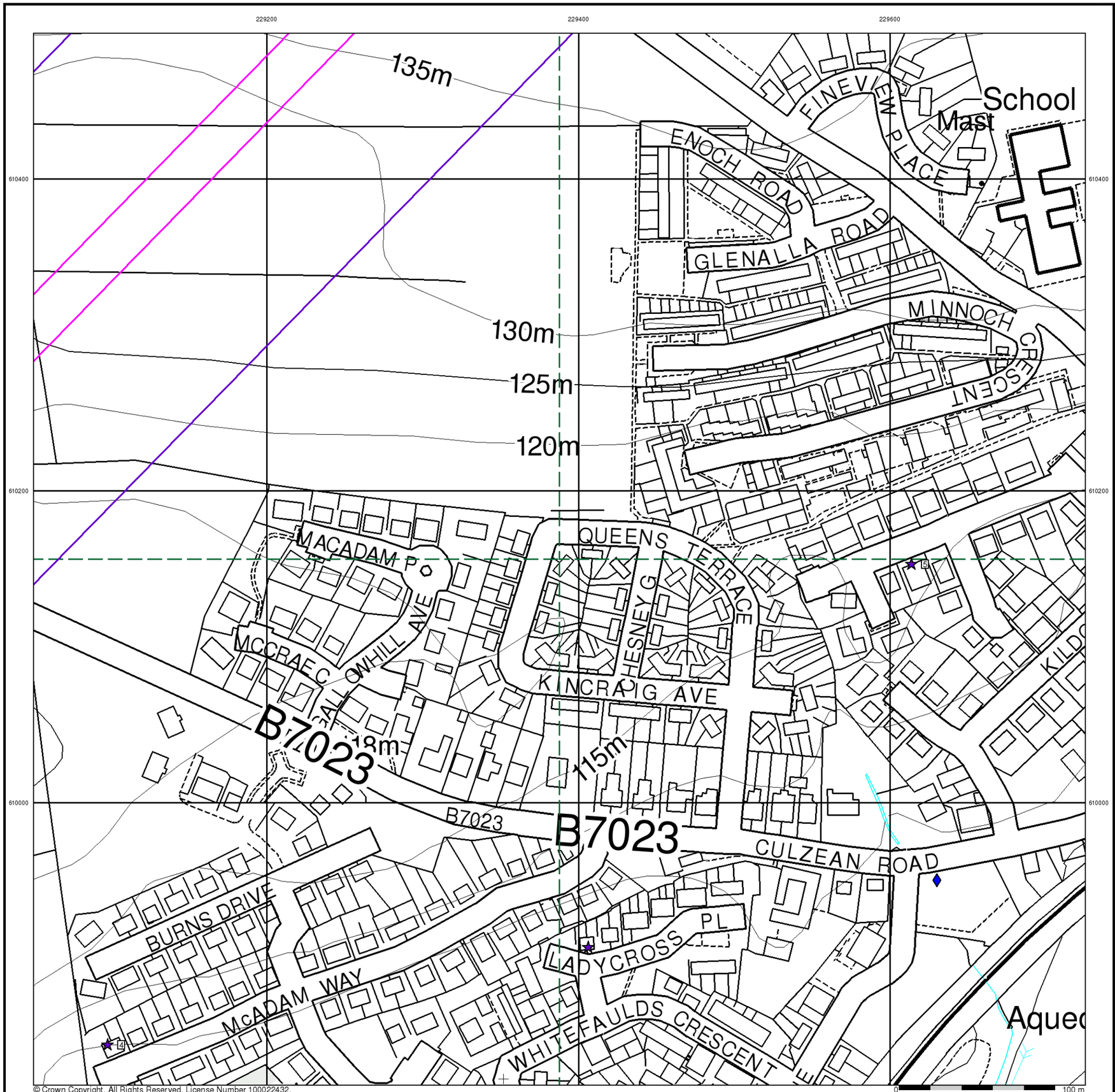


Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

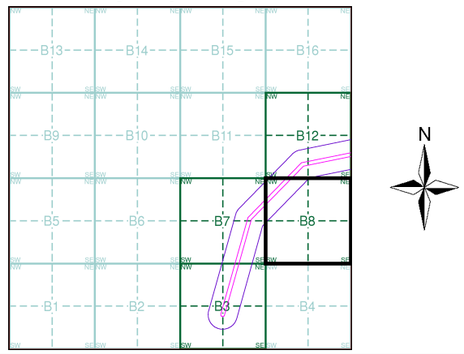
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment B8



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08

Site Details

Site at, Maybole, South Ayrshire

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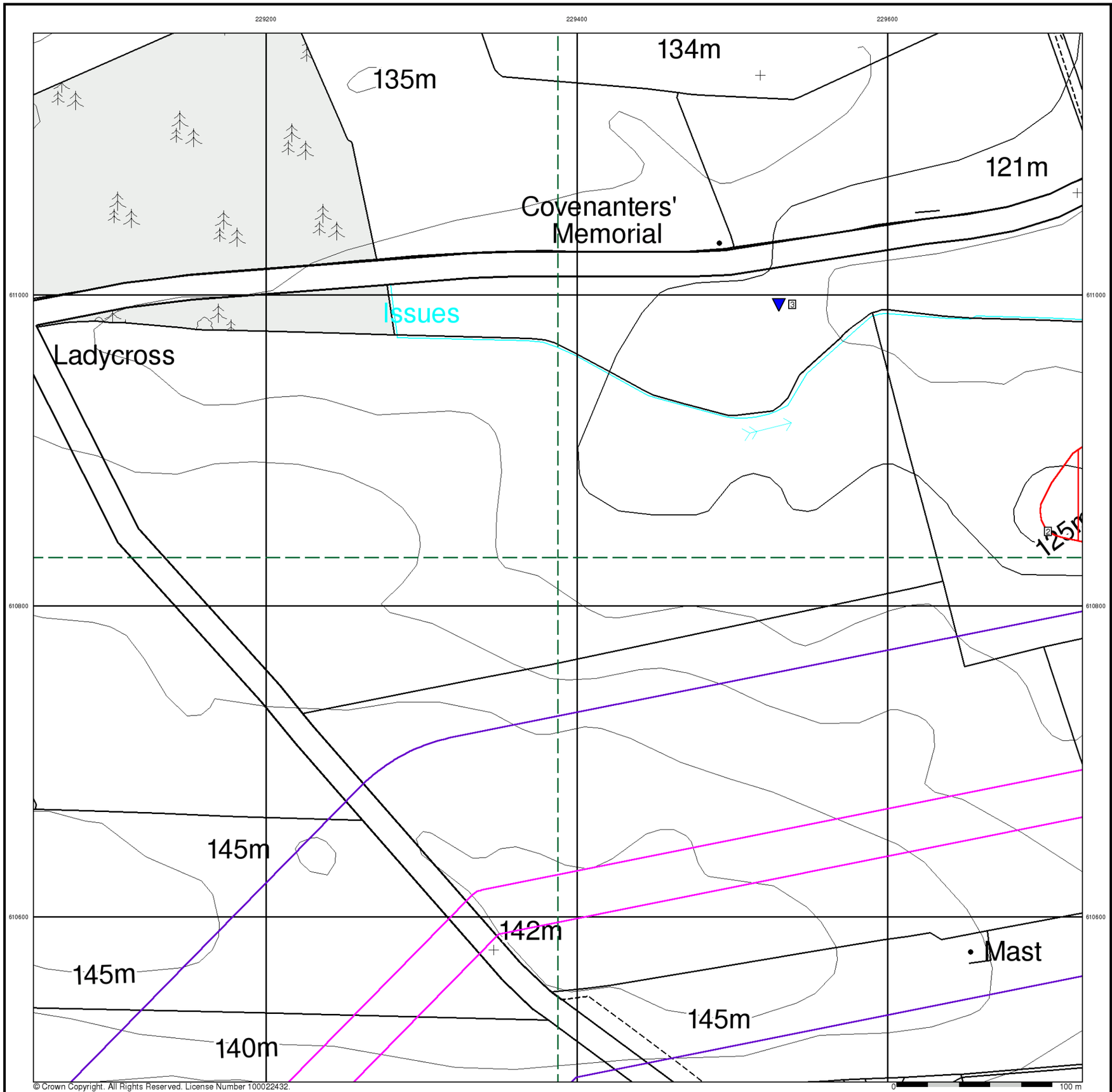
Web: www.envirocheck.co.uk



Envirocheck®

General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Map ID
Several of Type at Location

Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)
Contaminated Land Register Entry or Notice
Discharge Consent
Enforcement or Prohibition Notice
Integrated Pollution Control
Integrated Pollution Prevention Control
Local Authority Integrated Pollution Prevention and Control
Local Authority Pollution Prevention and Control
Local Authority Pollution Prevention and Control Enforcement
Pollution Incident to Controlled Waters
Prosecution Relating to Authorised Processes
Prosecution Relating to Controlled Waters
Registered Radioactive Substance
River Network or Water Feature
Substantiated Pollution Incident Register
Water Abstraction
Water Industry Act Referral

Waste

BGS Recorded Landfill Site (Location)
BGS Recorded Landfill Site
Integrated Pollution Control Registered Waste Site
Local Authority Recorded Landfill Site (Location)
Local Authority Recorded Landfill Site
Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Point Buffered to 100m)
Registered Landfill Site (Point Buffered to 250m)
Registered Waste Transfer Site (Location)
Registered Waste Transfer Site
Registered Waste Treatment or Disposal Site (Location)
Registered Waste Treatment or Disposal Site

Hazardous Substances

COMAH Site
Explosive Site
NIHHS Site
Planning Hazardous Substance Consent
Planning Hazardous Substance Enforcement

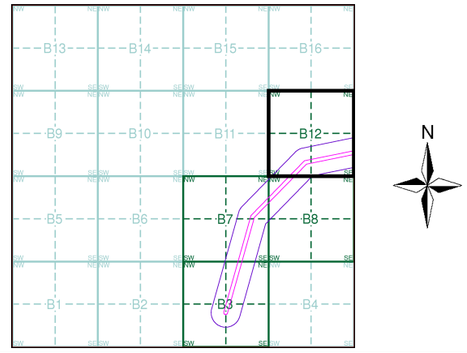
Geological

BGS Recorded Mineral Site

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry

Site Sensitivity Map - Segment B12



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08

Site Details

Site at, Maybole, South Ayrshire

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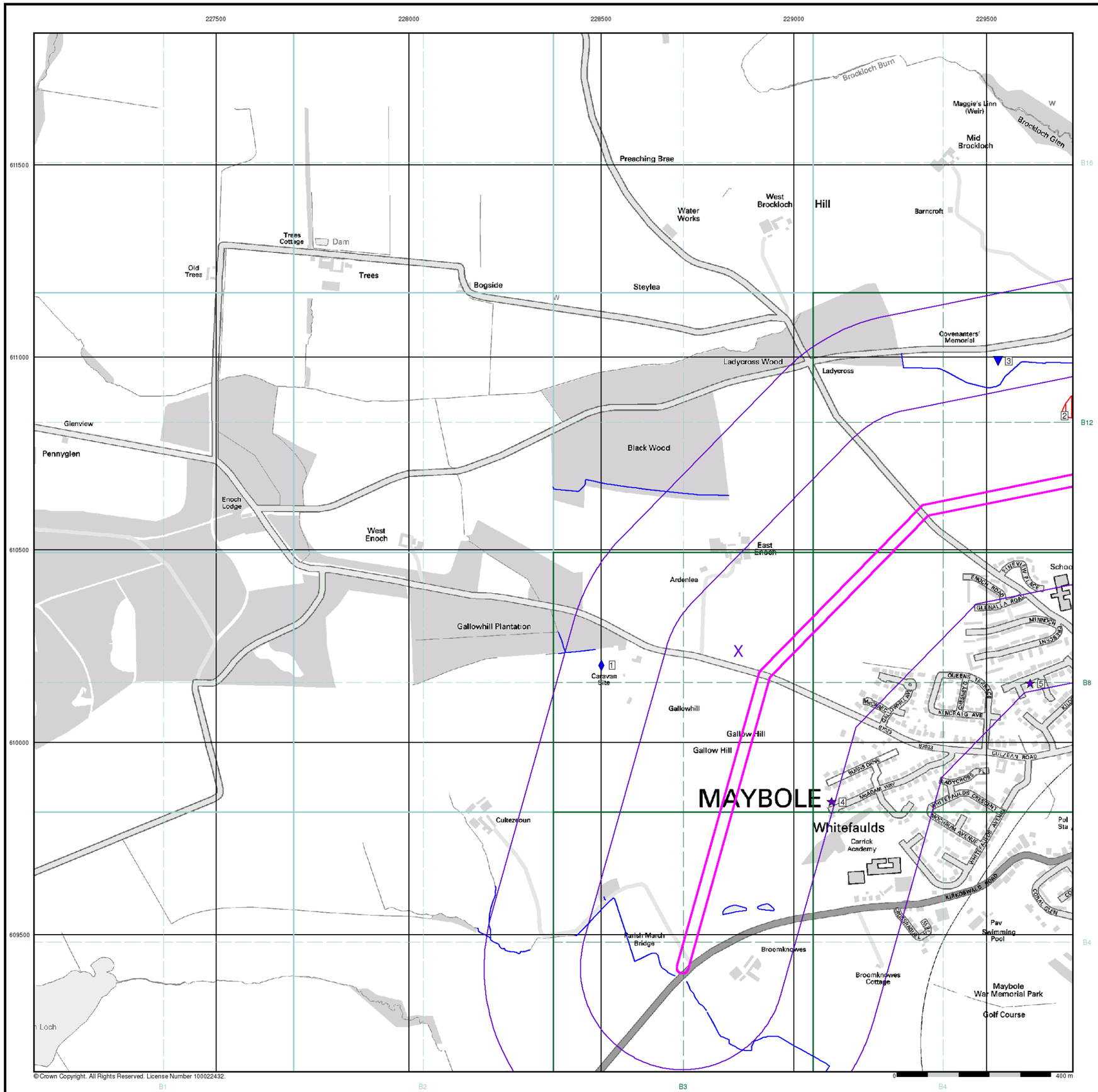


Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

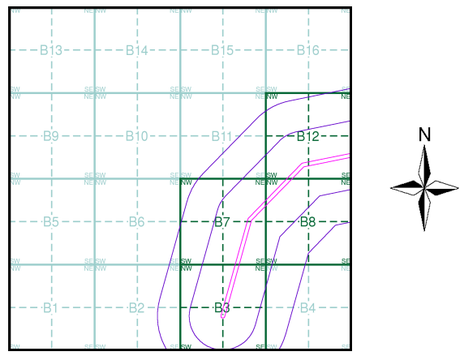
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice B



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

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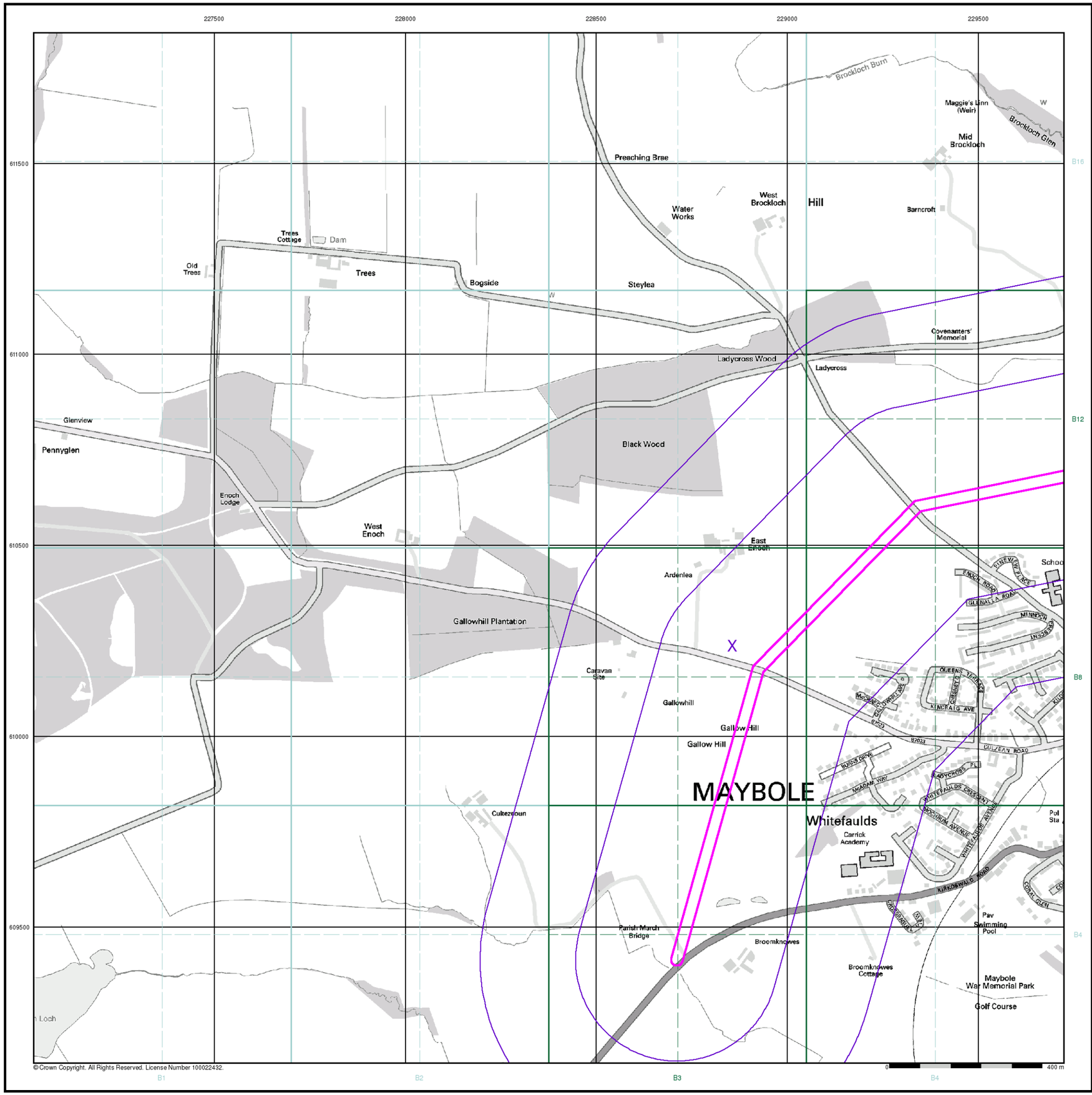


Envirocheck®

General

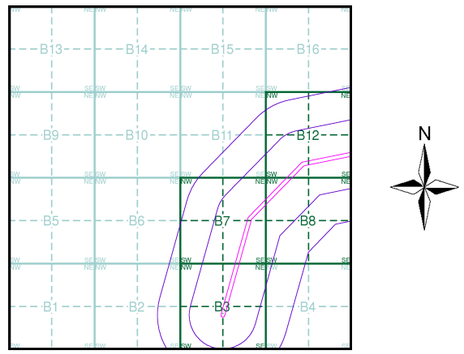
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- 0 - 1m estimated 100yr flood depth
- 1 - 2m estimated 100yr flood depth
- Over 2m estimated 100yr flood depth

The flooded areas have been generated using a generalised technique and should not, by themselves, be used to infer that specific areas are or are not at risk of inundation. Flood risk at any specific location may be influenced by local factors - not least flood defence - that have not been taken into account.

Flood Map - Slice B



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
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Slice:	B
Site Area (Ha):	16.08
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Site Details

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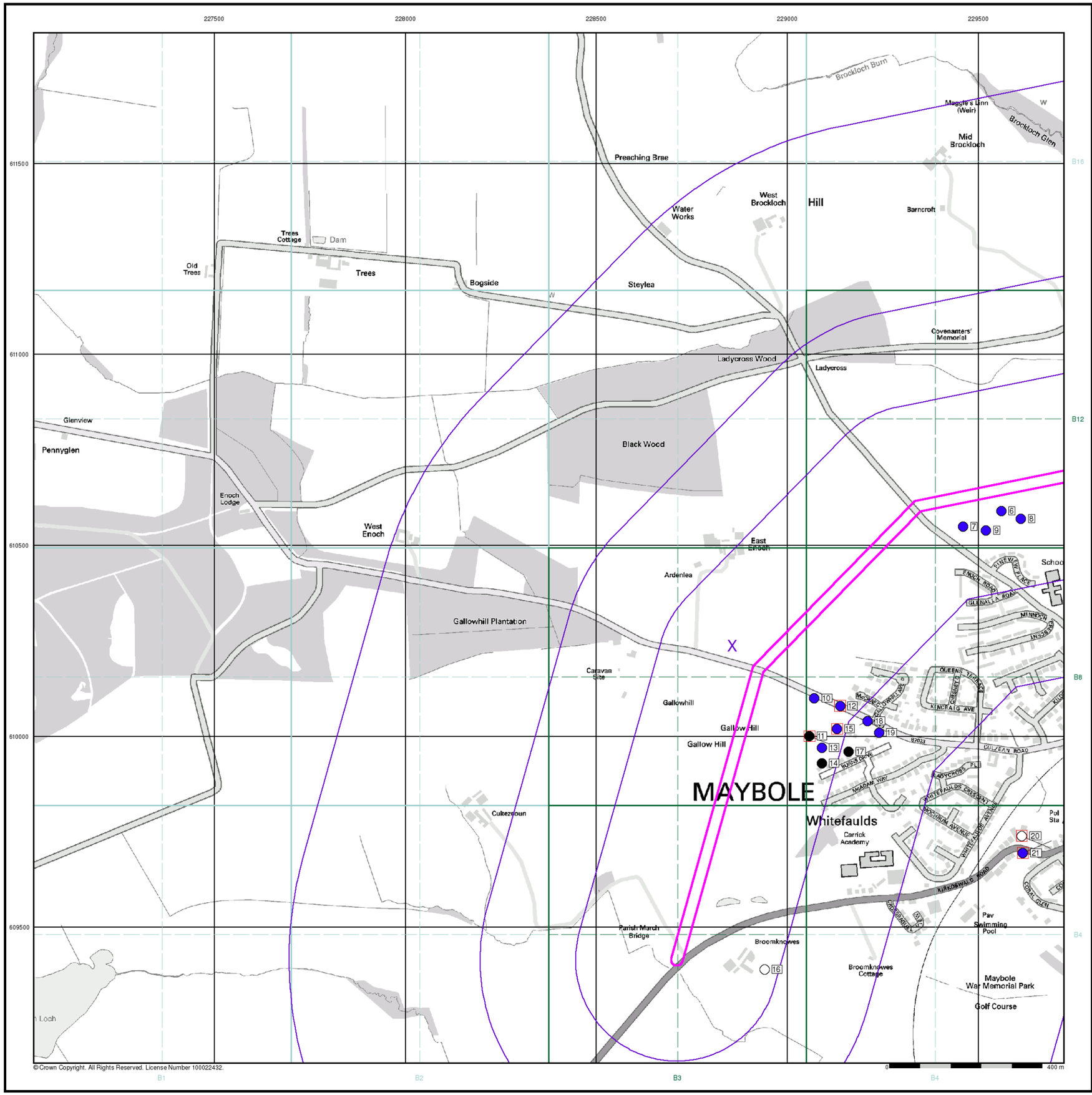


Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Map ID
- Several of Type at Location

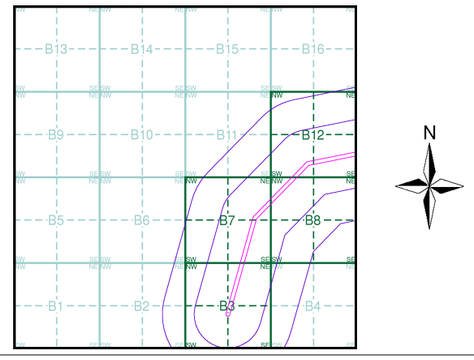
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole datasheet which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice B



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	228860, 610240
Slice:	B
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

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Geology 1:10,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Present Day - Present Day
	WMGR	Infilled Ground	Artificial Deposit	Present Day - Present Day
	WGR	Worked Ground (Undivided)	Void	Present Day - Present Day
	LSGR	Landscaped Ground (Undivided)	Unknown/Unclassified Entry	Present Day - Present Day
	DDGR	Disturbed Ground (Undivided)	Unknown/Unclassified Entry	Present Day - Present Day

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Unknown/Unclassified Entry	Flandrian - Flandrian
	HMGD	Hummocky (Moundy) Glacial Deposits	DIAMICTON, CLAY, SAND AND GRAVEL	Pleistocene - Pleistocene
	HMGD	Hummocky (Moundy) Glacial Deposits	DIAMICTON, SAND AND GRAVEL	Pleistocene - Pleistocene
	TILL	Till	Diamicton	Quaternary - Quaternary
	GFDU	Glaciofluvial Deposits	Sand and Gravel	Quaternary - Quaternary
	GFIC	Glaciofluvial Ice Contact Deposits	Sand and Gravel	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PDNB	North Britain Palaeogene Dyke Suite	Olivine-Microgabbro	Palaeogene - Palaeogene
	PDNB	North Britain Palaeogene Dyke Suite	Basaltic-rock	Palaeogene - Palaeogene
	SWAS	Swanshaw Sandstone Formation	Sandstone	Early Devonian - Ludlow

Envirocheck® Geology

Geology 1:10,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:10,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around a site. This mapping may be more up to date than previously published paper maps.

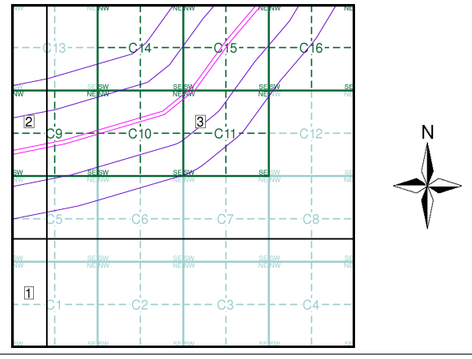
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page.

Please Note: Not all of the layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:10,000 Maps Coverage

Map ID:	1	**Map ID:**	2
Map Name:	NS20NE	**Map Name:**	NS21SE
Map Date:	2008	**Map Date:**	2008
Bedrock Geology:	Available	**Bedrock Geology:**	Available
Superficial Geology:	Available	**Superficial Geology:**	Available
Artificial Geology:	Available	**Artificial Geology:**	Available
Faults:	Available	**Faults:**	Available
Landslip:	Not Available	**Landslip:**	Not Available
Rock Segments:	Available	**Rock Segments:**	Not Available
Map ID:		**Map ID:**	3
Map Name:	NS30NW	**Map Name:**	NS31SW
Map Date:	2006	**Map Date:**	2007
Bedrock Geology:	Available	**Bedrock Geology:**	Available
Superficial Geology:	Available	**Superficial Geology:**	Available
Artificial Geology:	Available	**Artificial Geology:**	Available
Faults:	Available	**Faults:**	Available
Landslip:	Not Available	**Landslip:**	Not Available
Rock Segments:	Available	**Rock Segments:**	Not Available

Geology 1:10,000 Maps - Slice C



Order Details

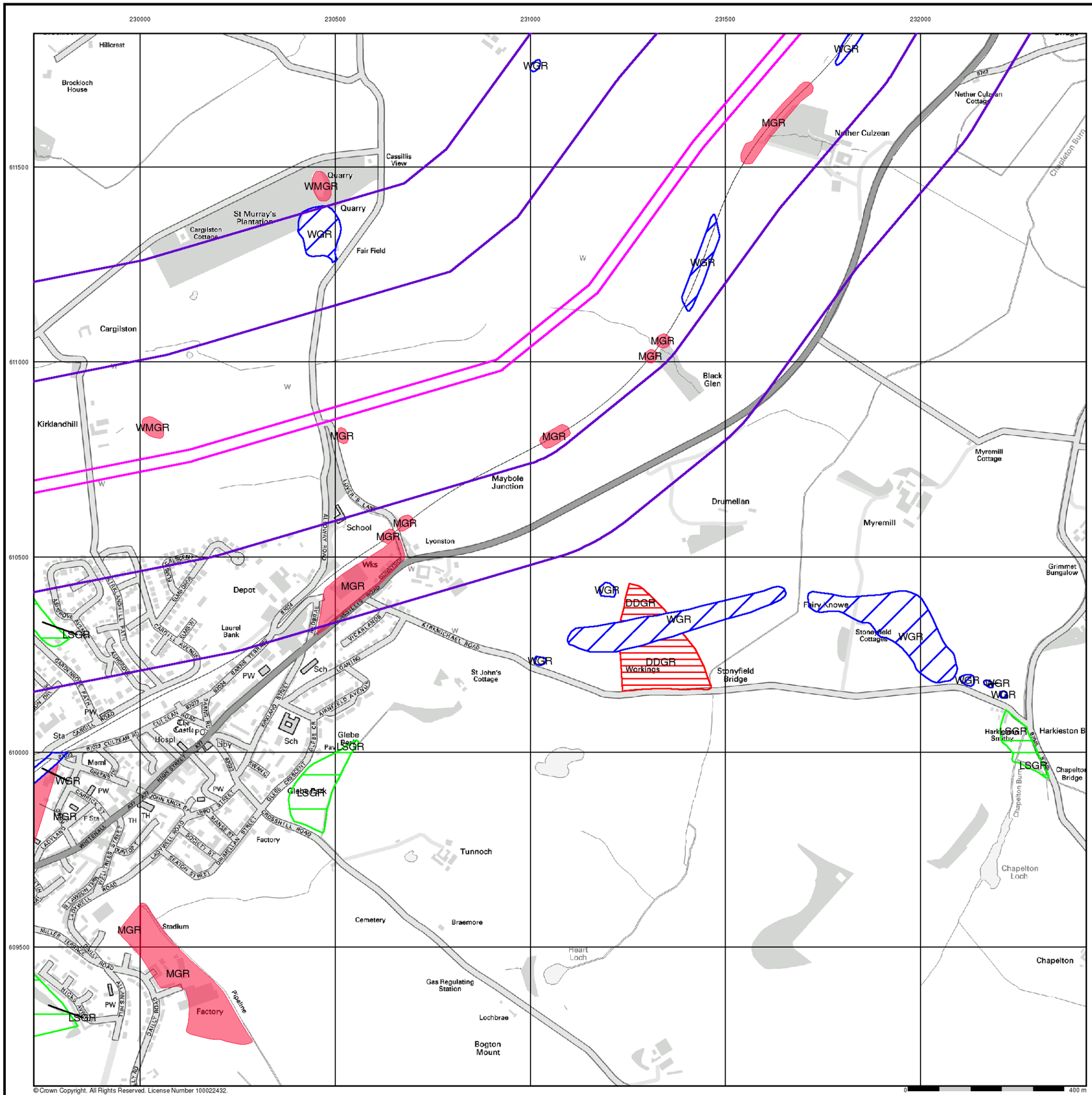
Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Envirocheck®
Geology

Artificial Ground and Landslip

Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice C

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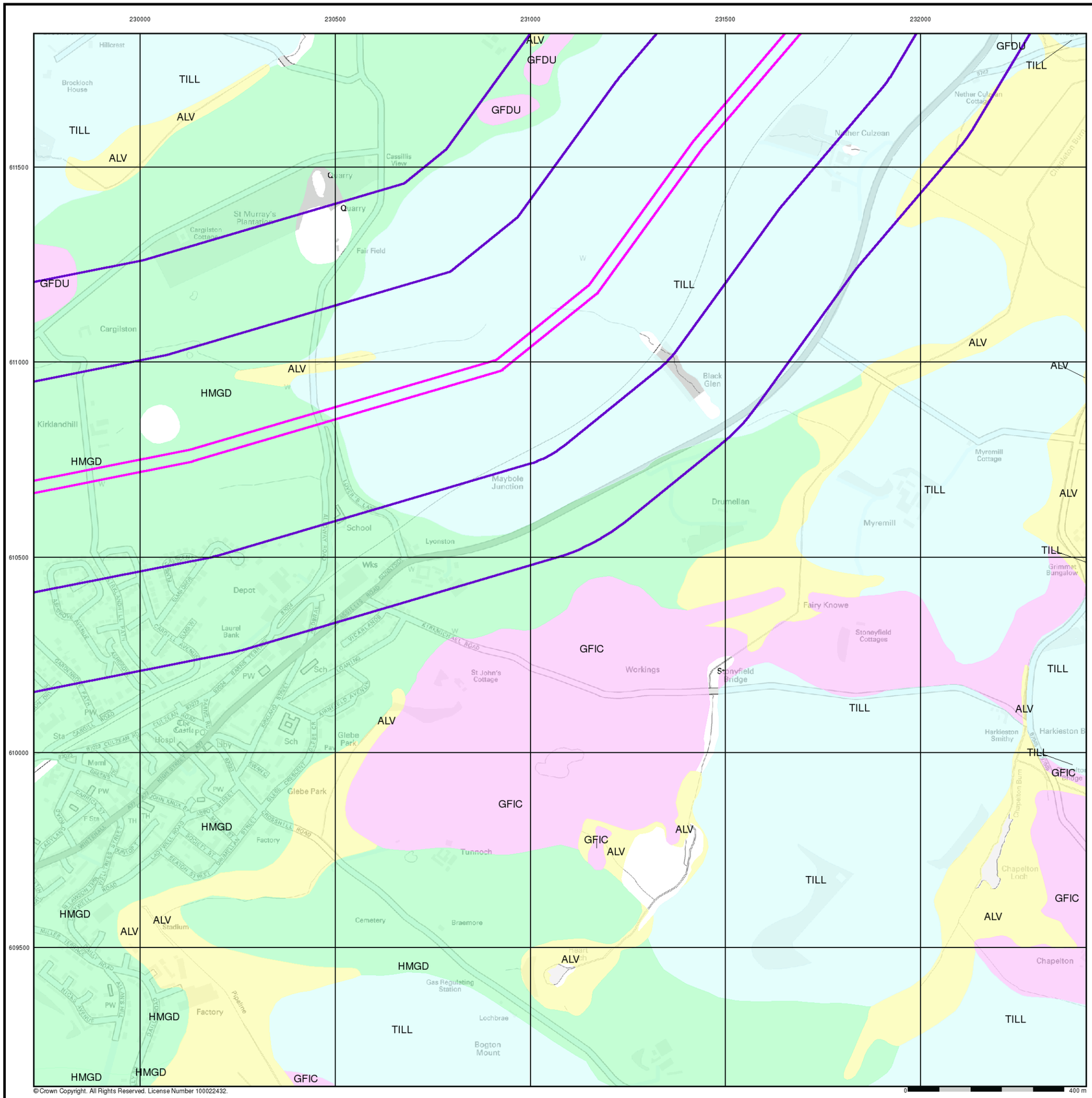


Envirocheck® Geology

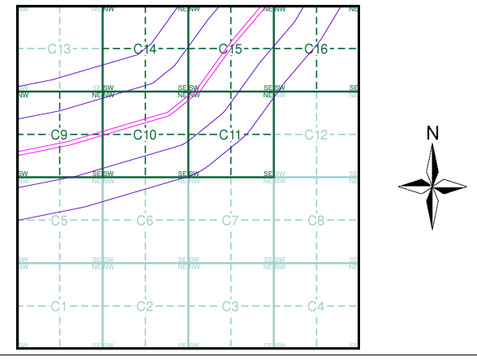
Superficial Geology

BGS 1:10,000 Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice C



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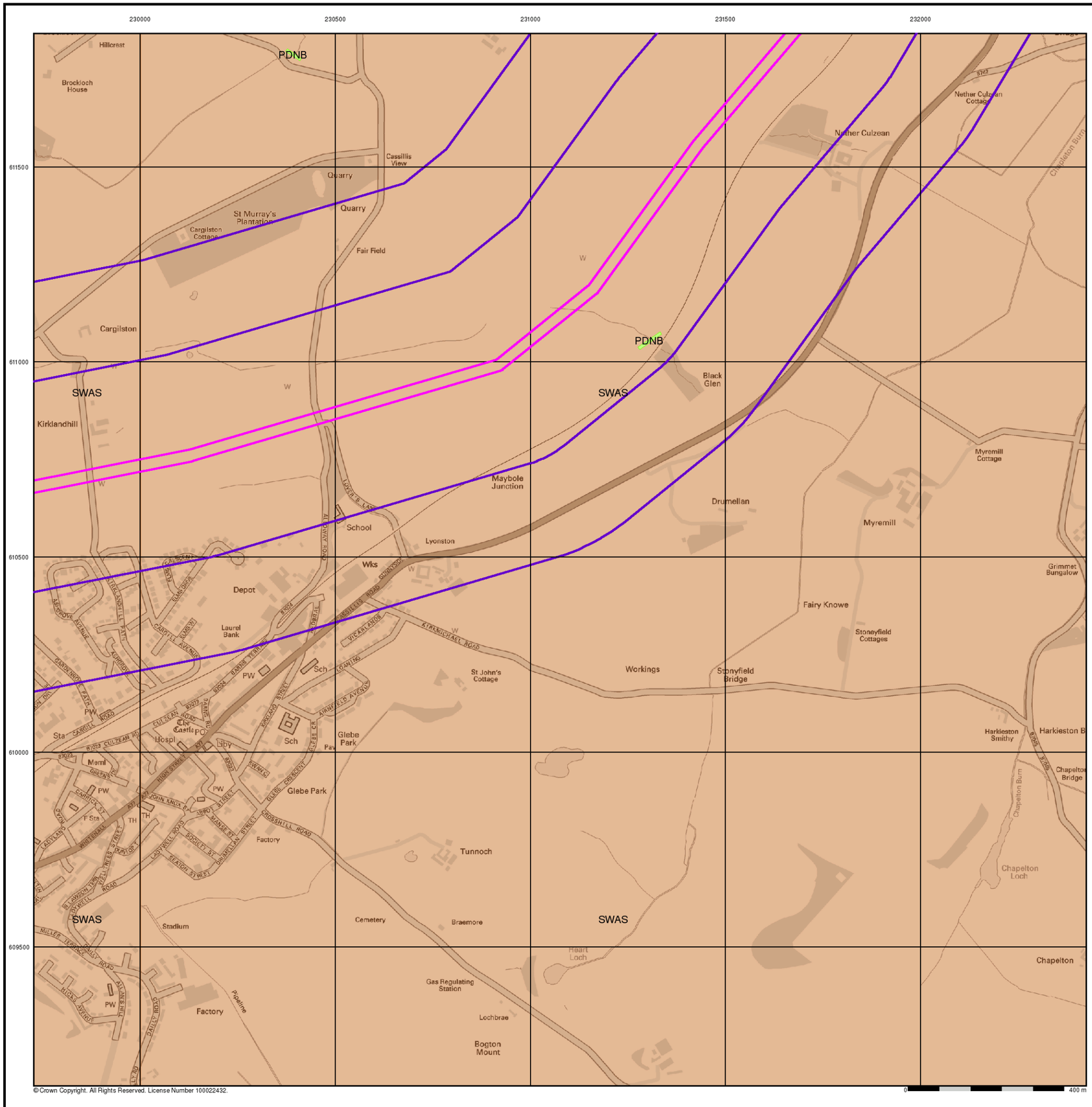


Envirocheck® Geology

Bedrock and Faults

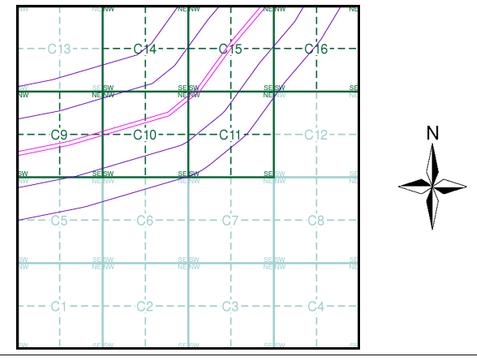
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults and thin beds mapped as lines such as coal seams and mineral veins. These are not restricted by age and could relate to features of any of the 1:10,000 geology datasets.

Bedrock and Faults Map - Slice C



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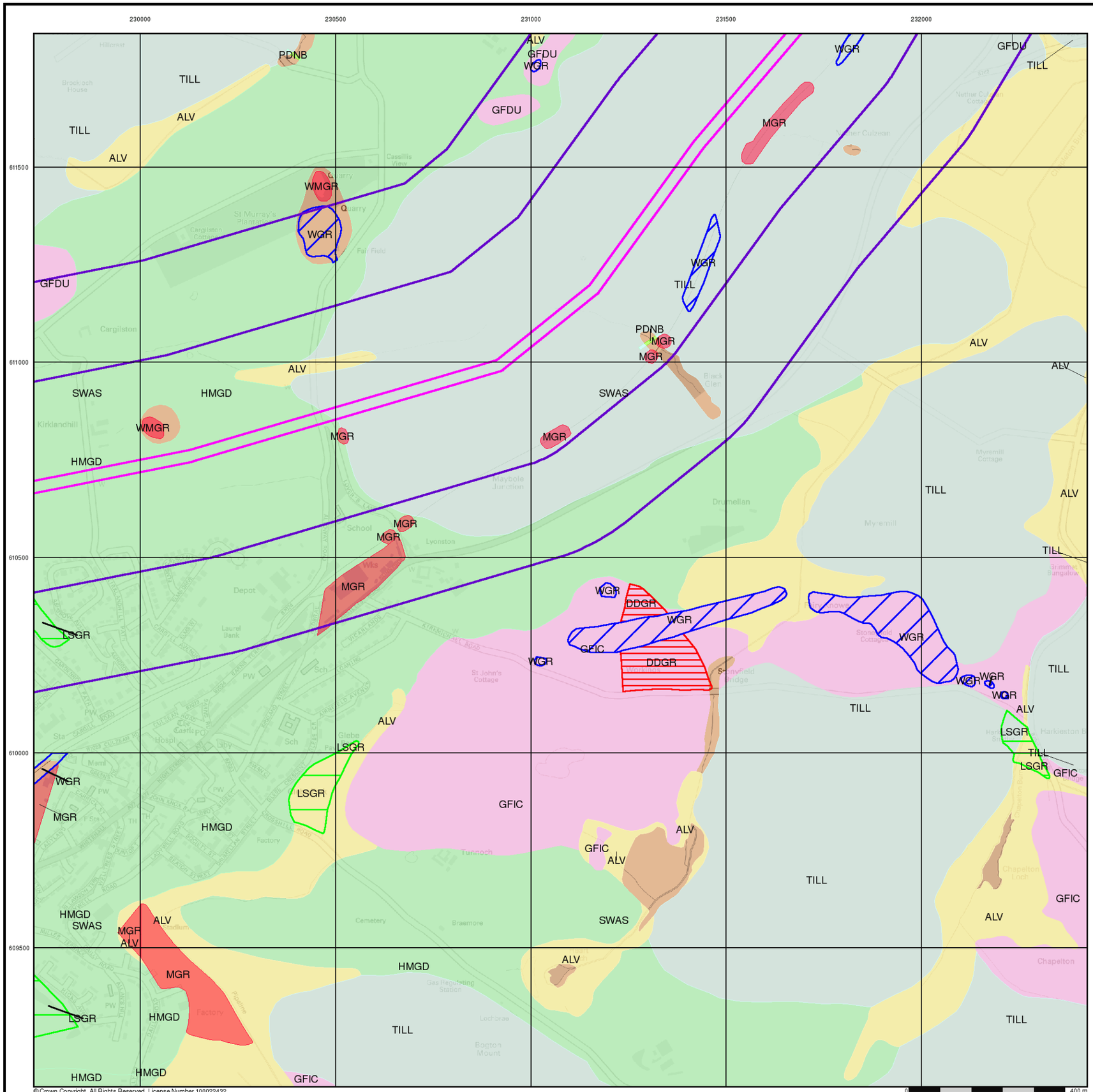

Envirocheck® Geology

Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

Additional Information

More information on 1:10,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

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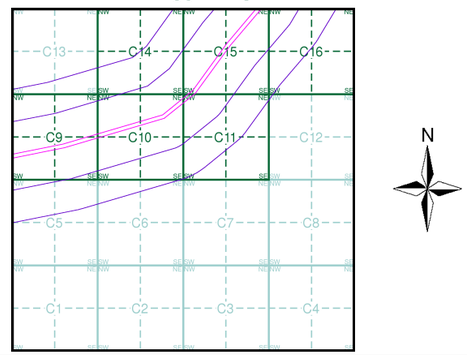
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice C



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Site Details

Site at, Maybole, South Ayrshire

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
40002230_1_1

Customer Reference:
Co25000182

National Grid Reference:
230900, 610920

Slice:
C

Site Area (Ha):
16.08

Search Buffer (m):
500

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Europoint Eurocentral
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ML1 4UR

Contents

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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Peter Brett Associates Copyright Notice

Radon Potential dataset Copyright Notice

Report Version v47.0

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Agency & Hydrological				
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 1			2
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls	pg 1			2
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 1	Yes		
Pollution Incidents to Controlled Waters				
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality				
Substantiated Pollution Incident Register				
Water Abstractions				
Water Industry Act Referrals				
Groundwater Vulnerability	pg 1	Yes	n/a	n/a
Source Protection Zones				
River Flood Data (Scotland)				n/a
Waste				
BGS Recorded Landfill Sites				
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
Local Authority Recorded Landfill Sites	pg 2		1	1
Registered Landfill Sites				
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				
Hazardous Substances				
Control of Major Accident Hazards Sites (COMAH)				
Explosive Sites				
Notification of Installations Handling Hazardous Substances (NIHHS)				
Planning Hazardous Substance Consents				
Planning Hazardous Substance Enforcements				

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Geological				
BGS 1:625,000 Solid Geology	pg 3	Yes	n/a	n/a
BGS Estimated Soil Chemistry	pg 3	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 7		1	1
BGS Urban Soil Chemistry				
BGS Urban Soil Chemistry Averages				
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain	pg 8	Yes		n/a
Potential for Collapsible Ground Stability Hazards	pg 8	Yes		n/a
Potential for Compressible Ground Stability Hazards	pg 8		Yes	n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 8	Yes		n/a
Potential for Running Sand Ground Stability Hazards	pg 8	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 9	Yes	Yes	n/a
Radon Potential - Radon Affected Areas			n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a
Industrial Land Use				
Contemporary Trade Directory Entries	pg 10			4 (*15)
Fuel Station Entries				

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Sensitive Land Use				
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves				
Marine Nature Reserves				
National Nature Reserves				
National Parks				
National Scenic Areas				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones				
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Mr And Mrs Wallace Property Type: Not Given Location: New House At Lyonston Farm, MAYBOLE, Ayrshire Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 9552 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 19th July 1991 Revocation Date: Not Supplied Discharge Type: Public Sewage: Septic Tank Discharge Environment: Freshwater Stream/River Receiving Water: Chapelton Burn **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	C10SW (SW)	396	1	230700 610500
2	**Discharge Consents** Operator: C Pope Property Type: Not Given Location: Nether Culzean Cottage Near, MAYBOLE, Ayrshire Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 10012 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 28th February 1992 Revocation Date: Not Supplied Discharge Type: Septic tank Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Tributary Of Chapelton Burn **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	C16NE (NE)	418	1	232100 611700
3	**Local Authority Pollution Prevention and Controls** Name: Clyde Gravure Location: Alloway Road, MAYBOLE, Ayrshire, KA19 8AB Authority: Scottish Environment Protection Agency, West Region Permit Reference: EPA/19/PP/CM Dated: 29th December 1993 Process Type: Local Authority Air Pollution Control Description: PG6/10 Coating manufacturing **Status: Authorised** Positional Accuracy: Manually positioned to the road within the address or location	C6NW (SW)	408	1	230417 610404
3	**Local Authority Pollution Prevention and Controls** Name: Clyde Gravure Location: Alloway Road, MAYBOLE, Ayrshire, KA19 8AB Authority: Scottish Environment Protection Agency, West Region Permit Reference: APC/W/00315 Dated: 29th December 1993 Process Type: Local Authority Air Pollution Control Description: PG6/16 Printworks **Status: Authorised** Positional Accuracy: Manually positioned to the road within the address or location	C6NW (SW)	408	1	230416 610404
	Nearest Surface Water Feature	C10NE (NE)	0	-	231052 611139
	Groundwater Vulnerability Geological Classification: Minor or Moderately Permeable Aquifer - Fractured or potentially fractured rocks which do not have a high primary permeability or other formations of variable permeability Soil Classification: Not classified Map Sheet: Map of Scotland Scale: 1:625,000	C10NE (NE)	0	2	230902 610918
	Drift Deposits Drift Deposit: Low permeability drift deposits which include till, head, peat, lacustrine deposits, clay-with-flints and brick earths Map Sheet: Map of Scotland Scale: 1:625,000	C10NE (NE)	0	2	230902 610918
	River Flood Data (Scotland) None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: South Ayrshire Council - Has supplied landfill data		0	4	230902 610918
4	**Local Authority Recorded Landfill Sites** Location: Kirklandhill, Maybole Reference: Not Supplied Authority: South Ayrshire Council **Last Reported Status:** **Closed** Types of Waste: Not Supplied Date of Closure: 31/12/1970 Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	C9NW (W)	138	4	229791 610867
5	**Local Authority Recorded Landfill Sites** Location: St. Murray'S Plantation, Maybole, Ayrshire Reference: Not Supplied Authority: South Ayrshire Council **Last Reported Status:** **Closed** Types of Waste: Not Supplied Date of Closure: 31/12/1983 Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	C14SW (NW)	452	4	230480 611391

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Old Red Sandstone, including Downtonian	C10NE (NE)	0	5	230902 610918
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C10NE (N)	0	6	230902 611000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C9NW (W)	0	6	230000 610975
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C10SE (S)	0	6	231000 610676
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C10NE (NE)	0	6	230902 610918
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C10NE (NE)	0	6	231000 611000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C10NE (E)	30	6	231000 610918

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C11NW (NE)	47	6	231203 611110
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C11NW (NE)	56	6	231087 611001
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C9NE (W)	92	6	230098 610925
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C9NW (W)	95	6	230000 610918
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C5SW (SW)	106	6	230000 610000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C11NW (NE)	135	6	231241 611060

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C14SW (NW)	138	6	230565 611221
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C16NW (NE)	178	6	232000 611532
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C11NW (E)	179	6	231280 611034
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C11NW (E)	193	6	231337 611077
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C11NW (E)	233	6	231324 611000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C9NW (W)	246	6	230000 611000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C10SE (SE)	302	6	231025 610689
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C9NW (W)	322	6	229837 611159
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C14NE (N)	340	6	231000 611659
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C14SW (NW)	392	6	230470 611285
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C14NE (N)	393	6	230975 611648
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C14NE (N)	403	6	231000 611680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C14NE (N)	405	6	230942 611636
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C16SW (NE)	426	6	231949 611382
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C12NW (E)	436	6	232000 611000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C14NE (N)	492	6	231000 611827
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	C14NE (N)	493	6	231004 611835
6	**BGS Recorded Mineral Sites** Site Name: Kirklandhill Location: Kirklandhill, Maybole, Ayrshire Source: British Geological Survey, National Geoscience Information Service Reference: 29998 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Silurian, Devonian Geology: Lanark Group Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	C9NW (W)	79	5	230050 610840

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**BGS Recorded Mineral Sites** Site Name: St. Murrays Location: , Maybole, Ayrshire Source: British Geological Survey, National Geoscience Information Service Reference: 30023 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Silurian, Devonian Geology: Lanark Group Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	C14SW (NW)	429	5	230460 611320
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	5	230902 610918
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	5	230001 610918
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	5	230001 610918
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	5	230902 610918
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C10NW (W)	88	5	230606 611012
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	5	230902 610918
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	5	230001 610918
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C15NE (NE)	68	5	231533 611510
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C10NW (W)	88	5	230606 611012
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	5	230001 610918
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	5	230902 610918
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C11NW (E)	162	5	231282 611059
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	5	230902 610918
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	5	230001 610918

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C10SE (SE)	0	5	231062 610619
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C10NW (W)	88	5	230606 611012
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C11NW (E)	148	5	231278 611068
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	5	230902 610918
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	5	230001 610918
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C10SE (SE)	0	5	231062 610619
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C10NW (W)	88	5	230606 611012
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C11NW (E)	148	5	231278 611068
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(NE)	188	5	232201 611857
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	5	230902 610918
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	5	230001 610918
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	5	230902 610918
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	5	230001 610918

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Contemporary Trade Directory Entries** Name: Mcgawn Bros Location: Thistle House, Alloway Road, Maybole, Ayrshire, KA19 8AA Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	C5NE (SW)	418	-	230374 610381
8	**Contemporary Trade Directory Entries** Name: Alfa Brake Drums & Discs Ltd Location: 9, Alloway Road, Maybole, Ayrshire, KA19 8AA Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C5NE (SW)	433	-	230336 610355
8	**Contemporary Trade Directory Entries** Name: Alloway Road Motor Services Location: 9, Alloway Road, Maybole, Ayrshire, KA19 8AA Classification: Mechanical Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	C5NE (SW)	433	-	230336 610355
9	**Contemporary Trade Directory Entries** Name: Redbrae Services Location: Redbrae, Maybole, Ayrshire, KA19 7HJ Classification: Blacksmiths & Forgemasters **Status: Active** Positional Accuracy: Automatically positioned to the address	C6NW (SW)	464	-	230417 610346
	Contemporary Trade Directory Entries Name: International Packaging Corporation (Uk) Ltd Location: 14, Redbrae, Maybole, Ayrshire, KA19 7HG Classification: Packaging Materials Manufacturers & Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	C5NE (SW)	531	-	230383 610266
	Contemporary Trade Directory Entries Name: Maybole Coachworks Location: 3, Barns Terrace, Maybole, Ayrshire, KA19 7EP Classification: Commercial Vehicle Bodybuilders & Repairers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C5NE (SW)	556	-	230209 610194
	Contemporary Trade Directory Entries Name: Maybole Coachworks Location: Barns Ter, Maybole, Ayrshire, KA19 7EP Classification: Car Body Repairs **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	C5NE (SW)	575	-	230214 610176
	Contemporary Trade Directory Entries Name: Memories Location: Cassillis Rd, Maybole, Ayrshire, KA19 7HF Classification: Stationery Manufacturers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	C5SE (SW)	620	-	230250 610137
	Contemporary Trade Directory Entries Name: Karada Cleaning Location: 23, Barns Road, Maybole, Ayrshire, KA19 7EN Classification: Commercial Cleaning Services **Status: Active** Positional Accuracy: Automatically positioned to the address	C5SE (SW)	622	-	230184 610122
	Contemporary Trade Directory Entries Name: M & K Services Location: Barns Rd, Maybole, Ayrshire, KA19 7EN Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	C5SE (SW)	637	-	230169 610104
	Contemporary Trade Directory Entries Name: D M K Services Location: 19, Barns Road, Maybole, Ayrshire, KA19 7EW Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C5SE (SW)	640	-	230187 610104
	Contemporary Trade Directory Entries Name: Dmk Location: 19, Barns Road, Maybole, Ayrshire, KA19 7EW Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	C5SE (SW)	641	-	230185 610103

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Contemporary Trade Directory Entries Name: Water Online Location: 5, Castle Street, Maybole, Ayrshire, KA19 7DD Classification: Water Coolers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C5SE (SW)	742	-	230089 609981
	Contemporary Trade Directory Entries Name: Contour Metal Work Location: Unit 8 St. Cuthbert's Rd, Maybole, Ayrshire, KA19 7HA Classification: Metal Products - Fabricated **Status: Active** Positional Accuracy: Manually positioned to the road within the address or location	C5SE (SW)	763	-	230222 609986
	Contemporary Trade Directory Entries Name: Taylors Colour Copying & Outdoor Clothing Location: 52 High St, Maybole, Ayrshire, KA19 7BZ Classification: Copying & Duplicating Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	C5SW (SW)	768	-	230060 609948
	Contemporary Trade Directory Entries Name: The Pet Food Co Location: 27, High Street, Maybole, Ayrshire, KA19 7AB Classification: Pet Foods & Animal Feeds **Status: Active** Positional Accuracy: Automatically positioned to the address	C5SE (SW)	773	-	230102 609952
	Contemporary Trade Directory Entries Name: John D Cameron Ltd Location: 84-86, High Street, Maybole, Ayrshire, KA19 7AH Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	C5SW (SW)	808	-	230001 609895
	Contemporary Trade Directory Entries Name: John D Cameron Location: 84-86, High Street, Maybole, Ayrshire, KA19 7AH Classification: Hardware **Status: Active** Positional Accuracy: Automatically positioned to the address	C5SW (SW)	808	-	230001 609895
	Contemporary Trade Directory Entries Name: A & A Done & Dusted Location: 52, Ladyland Road, Maybole, Ayrshire, KA19 7DH Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	C1NW (SW)	866	-	229726 609735

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices South Ayrshire Council	June 2012	Annual Rolling Update
Discharge Consents Scottish Environment Protection Agency - West Region	May 1998	Variable
Enforcement and Prohibition Notices Scottish Environment Protection Agency - West Region	January 2012	Not Applicable
Integrated Pollution Controls Scottish Environment Protection Agency - Head Office Scottish Environment Protection Agency - West Region	February 1998 March 2002	Variable Variable
Local Authority Pollution Prevention and Controls Scottish Environment Protection Agency - West Region	March 2002	Variable
Nearest Surface Water Feature Ordnance Survey	December 2011	Quarterly
Prosecutions Relating to Authorised Processes Scottish Environment Protection Agency - West Region	March 2007	Not Applicable
Prosecutions Relating to Controlled Waters Scottish Environment Protection Agency - West Region	March 2007	Not Applicable
Registered Radioactive Substances Scottish Environment Protection Agency - West Region Scottish Environment Protection Agency - Head Office	April 1996 January 1998	Variable Variable
River Quality Scottish Environment Protection Agency - Head Office	December 1990	Not Applicable
Water Abstractions Scottish Executive - Agriculture, Environment and Fisheries Department	December 1997	Not Applicable
Water Industry Act Referrals Scottish Environment Protection Agency - West Region	April 1996	Variable
Groundwater Vulnerability Scottish Environment Protection Agency - Head Office	December 1995	Not Applicable
Drift Deposits Scottish Environment Protection Agency - Head Office	December 1995	Not Applicable
River Flood Data (Scotland) Centre for Ecology and Hydrology	September 1999	Not Applicable
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Integrated Pollution Control Registered Waste Sites Scottish Environment Protection Agency - Head Office Scottish Environment Protection Agency - West Region	January 1998 January 1998	Variable Variable
Local Authority Landfill Coverage South Ayrshire Council	May 2000	Not Applicable
Local Authority Recorded Landfill Sites South Ayrshire Council	May 2000	Not Applicable
Registered Landfill Sites Scottish Environment Protection Agency - West Region	December 2005	Not Applicable
Registered Waste Transfer Sites Scottish Environment Protection Agency - West Region	December 2005	Not Applicable
Registered Waste Treatment or Disposal Sites Scottish Environment Protection Agency - West Region	December 2005	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	May 2012	Bi-Annually
Explosive Sites Health and Safety Executive	June 2012	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements South Ayrshire Council - Planning Department	February 2012	Annual Rolling Update
Planning Hazardous Substance Consents South Ayrshire Council - Planning Department	February 2012	Annual Rolling Update
Geological	**Version**	**Update Cycle**
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	August 2011	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	May 2012	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2012	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt South Ayrshire Council	April 2012	As notified
Areas of Unadopted Green Belt South Ayrshire Council	April 2012	As notified
Environmentally Sensitive Areas Scottish Executive - Geographic Information Service	April 2012	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Marine Nature Reserves Scottish Natural Heritage	February 2012	Bi-Annually
National Nature Reserves Scottish Natural Heritage	May 2012	Bi-Annually
Nitrate Vulnerable Zones Scottish Executive - Geographic Information Service	April 2011	Annually
Ramsar Sites Scottish Natural Heritage	May 2012	Bi-Annually
Sites of Special Scientific Interest Scottish Natural Heritage	May 2012	Bi-Annually
Special Areas of Conservation Scottish Natural Heritage	May 2012	Bi-Annually
Special Protection Areas Scottish Natural Heritage	May 2012	Bi-Annually

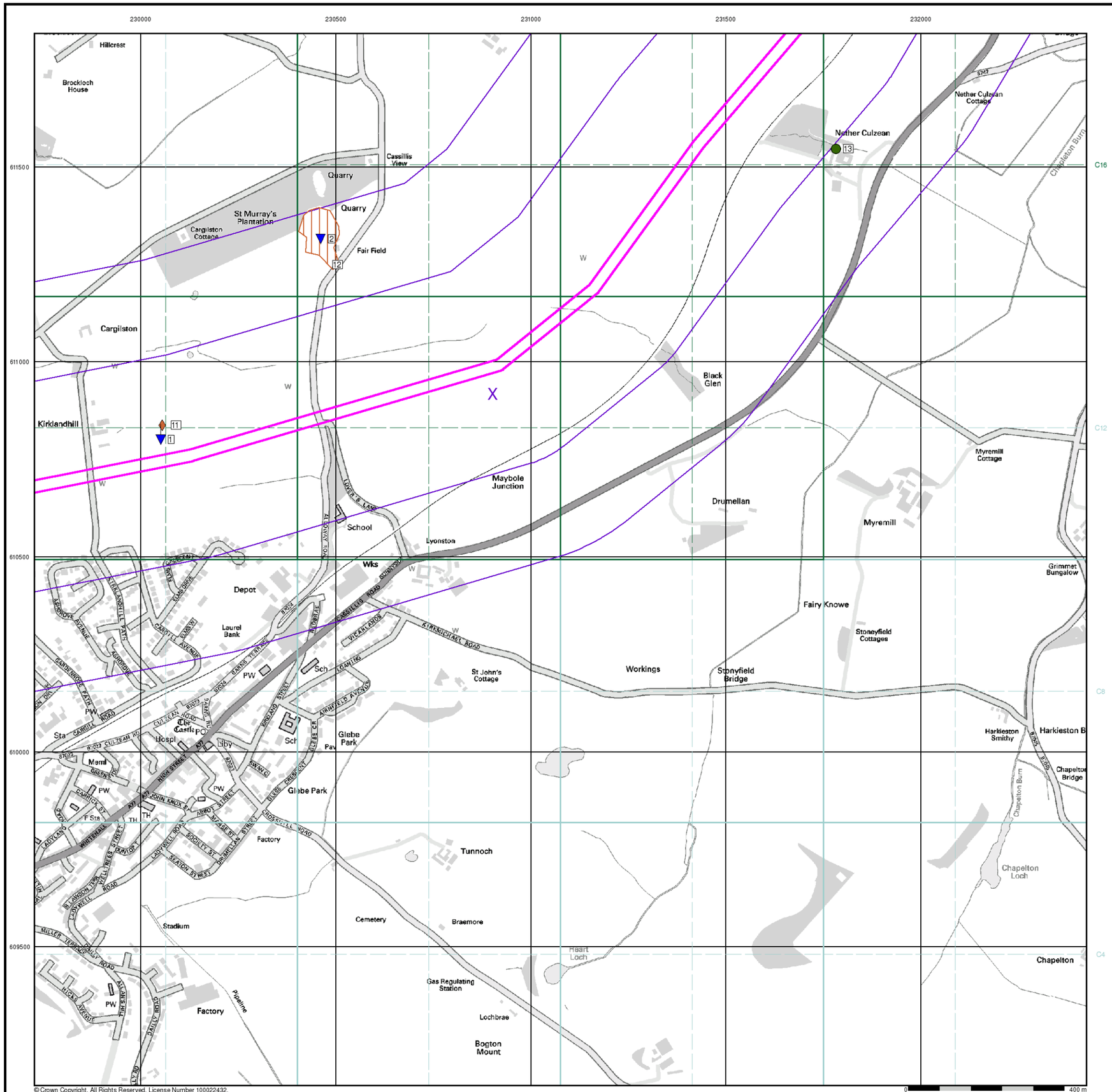
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Useful Contacts

Contact	Name and Address	Contact Details
1	**Scottish Environment Protection Agency - West Region** 5 Redwood Crescent, Peel Park, East Kilbride, South Lanarkshire, G74 5PP	Telephone: 01355 574200 Fax: 01355 574688
2	**Scottish Environment Protection Agency - Head Office** Erskine Court, The Castle Business Park, Stirling, Stirlingshire, FK9 4TR	Telephone: 01786 457700 Fax: 01786 446885
3	**Centre for Ecology and Hydrology** Maclean Building, Crowmarsh Gifford, WALLINGFORD, Oxfordshire, OX10 8BB	Telephone: 01491 838800 Fax: 01491 692424
4	**South Ayrshire Council** Council Buildings, Wellington Square, Ayr, Ayrshire, KA7 1DR	Telephone: 01292 612000 Fax: 01292 612143 Website: www.south-ayrshire.gov.uk
5	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
6	**Landmark Information Group Limited** 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
-	**Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	**Landmark Information Group Limited** The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.



Historical Land Use Information (1:10,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts	◆	─	▨
Disturbed Ground	◆	─	▨
General Quarrying	◆	─	▨
Heap, unknown constituents	◆	─	▨
Mineral Railway	◆	─	▨
Mining and Quarrying General	◆	─	▨
Mining of Coal & Lignite	◆	─	▨
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	◆	─	▨

Historical Land Use

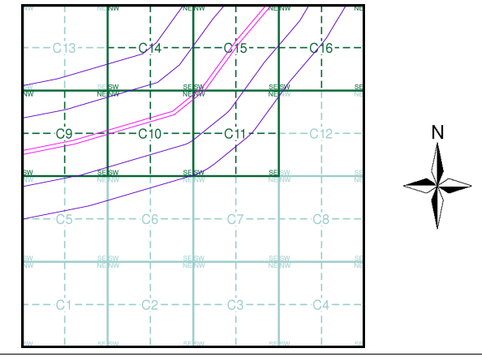
	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	●	- - -	■
Potentially Infilled Land (Water)	●	- - -	■
Former Marsh	✠		

Mining Data

Potential Mining Area

BGS Recorded Mineral Site

Mining and Ground Stability - Slice C



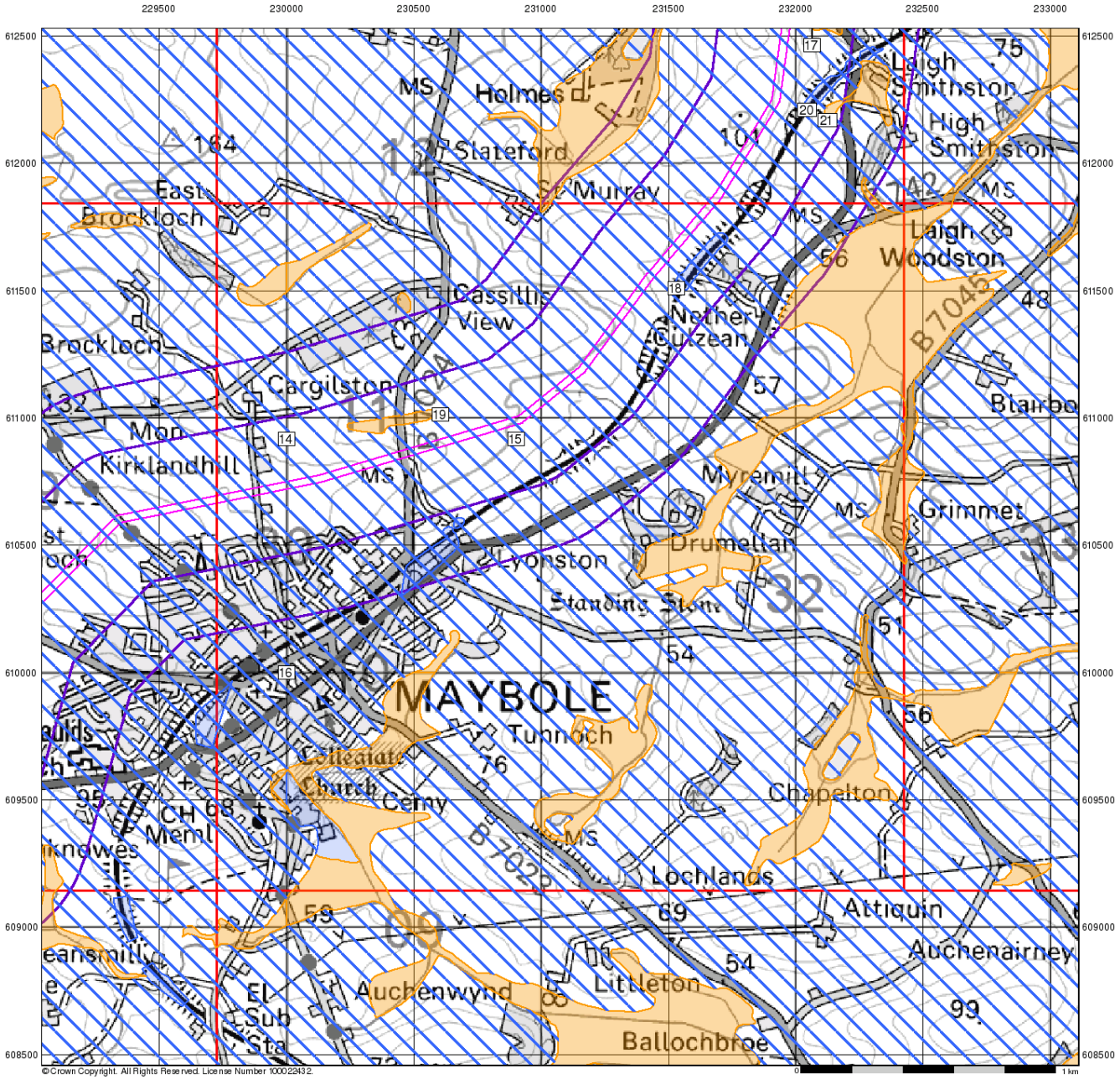
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Potential for Compressible Ground Stability Hazards

High | Low | Moderate | Very Low

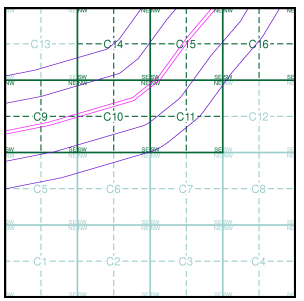
Potential for Collapsible Ground Stability Hazards

High | Low | Moderate | Very Low

Brine Pumping and Salt Mining

	Point	Polygon
Brine Pumping Related Feature	▲	▨
Salt Mining Related Feature	▲	▨

Mining and Ground Stability - Slice C



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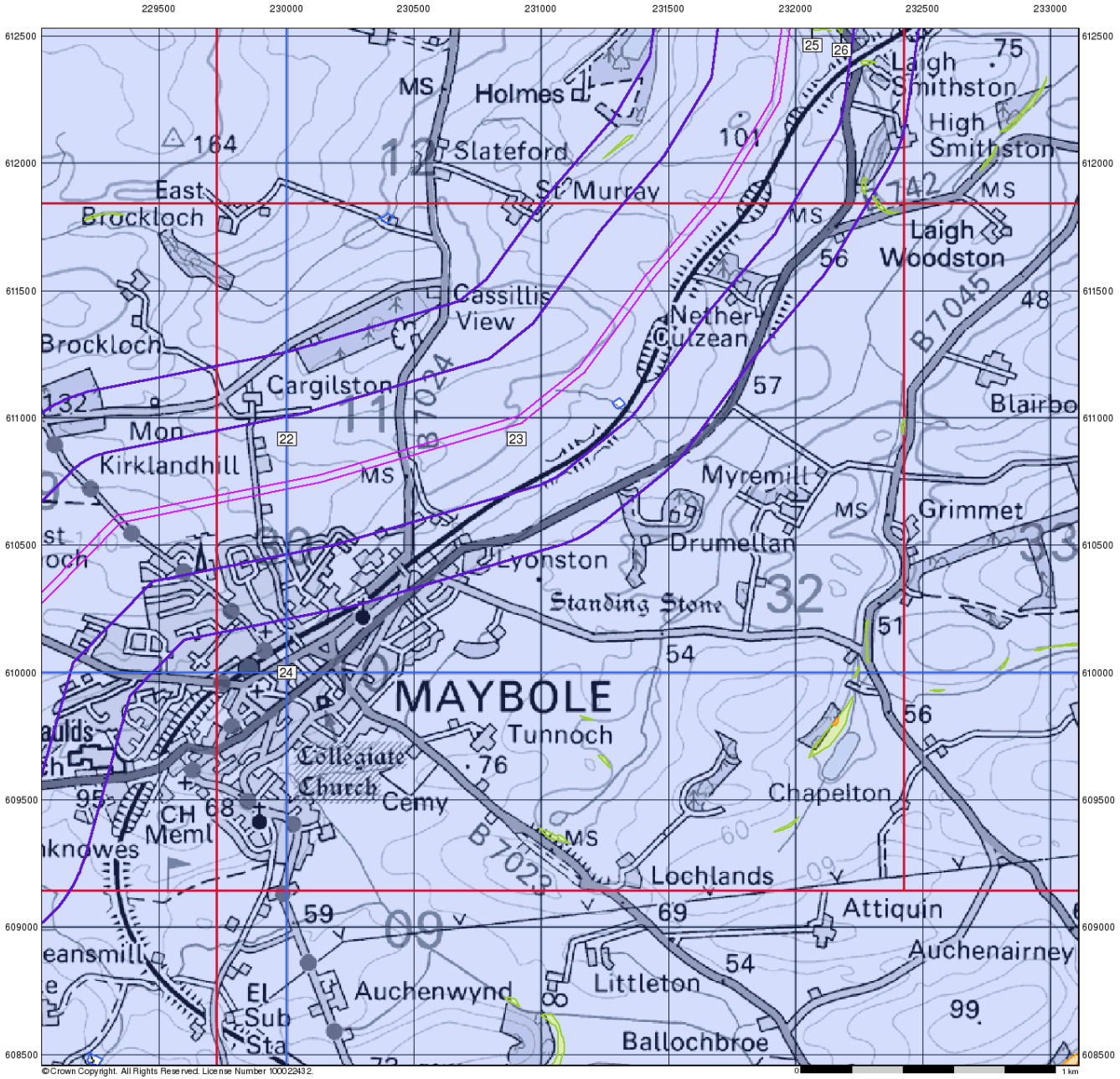


Envirocheck® Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

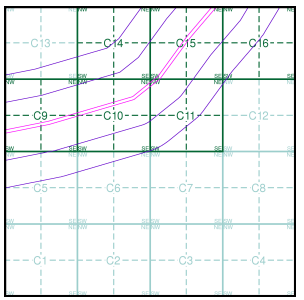
Potential for Landslide Ground Stability Hazards

High | Low | Moderate | Very Low

Potential for Ground Dissolution Stability Hazards

High | Low | Moderate | Very Low

Mining and Ground Stability - Slice C



Order Details

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Slice:	C
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Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

Tel: 0844 844 9952
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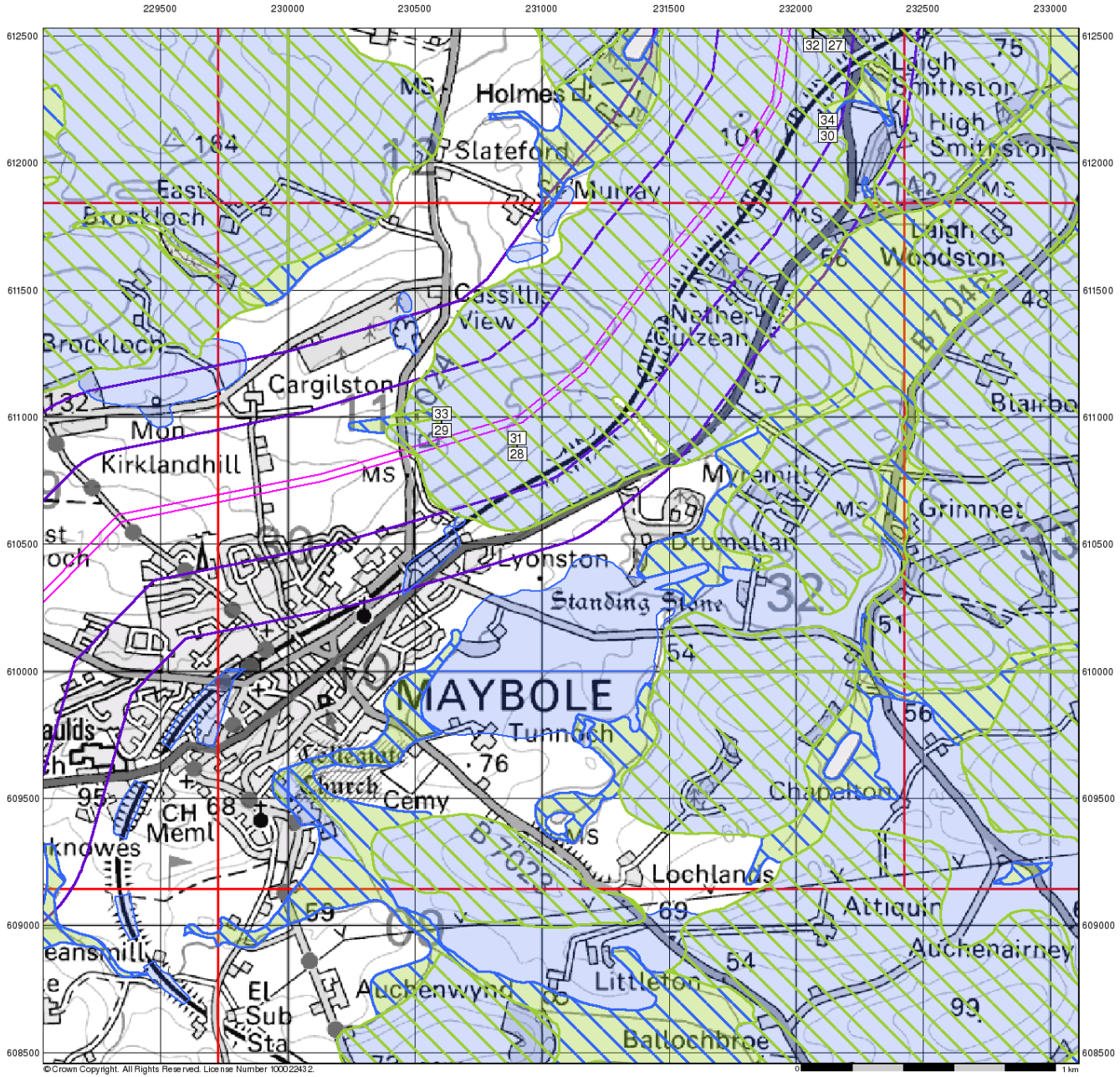


Envirocheck® Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

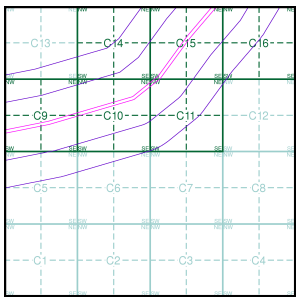
Potential for Running Sand Ground Stability Hazards

High | Low
Moderate | Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

High | Low
Moderate | Very Low

Mining and Ground Stability - Slice C



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Envirocheck® Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:
40002230_1_1

Customer Reference:
Co25000182

National Grid Reference:
230900, 610920

Slice:
C

Site Area (Ha):
16.08

Search Buffer (m):
500

Site Details:

Site at
Maybole
South Ayrshire

Client Details:

Mr M Ayton
Amey OW Ltd
Precision House
1st floor, off McNeil Drive
Europoint Eurocentral
Motherwell
ML1 4UR

Contents

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	2
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	3
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	4
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
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The Motion Map Data (1:2,500) section contains data which is plotted to indicate long-term stability trends from analysis of satellite radar data.	
Historical Map List	6
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
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Report Version v47.0

Envirocheck® Mining

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m
Mining and Natural Cavities Data				
BGS Recorded Mineral Sites	pg 1		1	1
Coal Mining Affected Areas			n/a	n/a
Man Made Mining Cavities				
Mining Instability			n/a	n/a
Natural Cavities				
Non Coal Mining Areas of Great Britain	pg 1	Yes		n/a
Potential Mining Areas				
Historical Land Use Information (1:2,500)				
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)	pg 2		8	n/a
Subterranean Features (100m)				n/a
Historical Land Use Information (1:10,000)				
Air Shafts				
Disturbed Ground				
General Quarrying	pg 3		1	1
Heap, unknown constituents				
Mineral Railway				
Mining & quarrying general				
Mining of coal & lignite				
Quarrying of sand & clay, operation of sand & gravel pits				
Former Marshes				
Potentially Infilled Land (Non-Water)				
Potentially Infilled Land (Water)	pg 3			1

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m
Ground Stability Data (1:50,000)				
Brine Compensation Area			n/a	n/a
Brine Pumping Related Features				
Brine Subsidence Solution Area				
Potential for Collapsible Ground Stability Hazards	pg 4	Yes	Yes	n/a
Potential for Compressible Ground Stability Hazards	pg 4	Yes	Yes	n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 4	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards	pg 5	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 5	Yes	Yes	n/a
Salt Mining Related Features				
Subsidence Insurance Claims				n/a
Subsidence Investigations				n/a
Motion Map Data (1:2,500)				
Motion Map (100m)				n/a

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Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**BGS Recorded Mineral Sites** Site Name: Kirklandhill Location: Kirklandhill, Maybole, Ayrshire Source: British Geological Survey, National Geoscience Information Service Reference: 29998 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Silurian, Devonian Geology: Lanark Group Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	C9NW (W)	79	1	230050 610840
2	**BGS Recorded Mineral Sites** Site Name: St. Murrays Location: , Maybole, Ayrshire Source: British Geological Survey, National Geoscience Information Service Reference: 30023 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Silurian, Devonian Geology: Lanark Group Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	C14SW (NW)	429	1	230460 611320
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	1	230902 610918
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	1	230001 610918

Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Extractive Industries or Potential Excavations from 1950-1980** Use: Well First Map Published Date: 1965 Last Map Published Date: N/A	C9SW (W)	7	-	229881 610688
4	**Extractive Industries or Potential Excavations from 1950-1980** Use: Unspecified Deposited Material First Map Published Date: 1965 Last Map Published Date: N/A	C10SW (W)	13	-	230518 610828
5	**Extractive Industries or Potential Excavations from 1950-1980** Use: Unspecified Quarry First Map Published Date: 1965 Last Map Published Date: N/A	C9NE (W)	51	-	230068 610843
6	**Extractive Industries or Potential Excavations from 1950-1980** Use: Well First Map Published Date: 1970 Last Map Published Date: N/A	C15SW (NE)	73	-	231115 611271
7	**Extractive Industries or Potential Excavations from 1950-1980** Use: Sheep Wash First Map Published Date: 1965 Last Map Published Date: N/A	C9SW (W)	79	-	229853 610800
8	**Extractive Industries or Potential Excavations from 1950-1980** Use: Railway Embankment First Map Published Date: 1970 Last Map Published Date: N/A	C15SE (NE)	80	-	231528 611499
9	**Extractive Industries or Potential Excavations from 1950-1980** Use: Well First Map Published Date: 1965 Last Map Published Date: N/A	C9NE (W)	87	-	230361 610934
10	**Extractive Industries or Potential Excavations from 1950-1980** Use: Railway Cutting First Map Published Date: 1970 Last Map Published Date: N/A	C15NE (NE)	96	-	231713 611719

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**General Quarrying** Use: Not Supplied Date of Mapping: 1859 - 1897	C9NW (W)	77	-	230055 610838
12	**General Quarrying** Use: Not Supplied Date of Mapping: 1859 - 1978	C14SW (NW)	341	-	230503 611250
13	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	C16NW (NE)	260	-	231781 611547

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Brine Compensation Area The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
14	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	1	230001 610918
15	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	1	230902 610918
16	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C5SW (SW)	0	1	230001 609999
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(NE)	0	1	232066 612527
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C10NW (W)	88	1	230606 611012
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(NE)	182	1	232126 612170
17	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(NE)	0	1	232066 612527
18	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C15NE (NE)	68	1	231533 611510
19	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C10NW (W)	88	1	230606 611012
20	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(NE)	100	1	232045 612209
21	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(NE)	182	1	232126 612170
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	1	230902 610918
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	1	230001 610918
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C5SW (SW)	0	1	230001 609999
	Potential for Ground Dissolution Stability Hazards No Hazard				
22	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	1	230001 610918
23	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	1	230902 610918
24	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C5SW (SW)	0	1	230001 609999
25	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(NE)	42	1	232066 612527

Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(NE)	145	1	232180 612508
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C11NW (E)	162	1	231282 611059
27	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(NE)	0	1	232066 612527
28	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	1	230902 610918
29	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C10NW (W)	88	1	230606 611012
30	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(NE)	182	1	232126 612170
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	1	230001 610918
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C5SW (SW)	0	1	230001 609999
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C10SE (SE)	0	1	231062 610619
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C11NW (E)	148	1	231278 611068
31	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	C10NE (NE)	0	1	230902 610918
32	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(NE)	0	1	232066 612527
33	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C10NW (W)	88	1	230606 611012
34	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(NE)	182	1	232126 612170
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C9NW (W)	0	1	230001 610918
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C10SE (SE)	0	1	231062 610619
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C5SW (SW)	0	1	230001 609999
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C11NW (E)	148	1	231278 611068
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(NE)	188	1	232201 611857

Historical Map List

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	NS2910	1965
Ordnance Survey Plan	NS3010	1965
Ordnance Survey Plan	NS3010	1965
Ordnance Survey Plan	NS3110	1965
Ordnance Survey Plan	NS3110	1965
Ordnance Survey Plan	NS2911	1969
Ordnance Survey Plan	NS3011	1970
Ordnance Survey Plan	NS3011	1970
Ordnance Survey Plan	NS3011	1970
Ordnance Survey Plan	NS3111	1970
Ordnance Survey Plan	NS3111	1970
Ordnance Survey Plan	NS3111	1970
Ordnance Survey Plan	NS3111	1970
Ordnance Survey Plan	NS3111	1970
Ordnance Survey Plan	NS3211	1970

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Ayrshire	038_00	1859
Ayrshire	044_00	1859
Ayrshire	045_00	1859
Ayrshire	039_00	1860
Ayrshire	038_SE	1896
Ayrshire	039_SW	1897
Ayrshire	044_NE	1897
Ayrshire	045_NW	1897
Ayrshire	039_SW	1910
Ayrshire	044_NE	1910
Ayrshire	038_SE	1911
Ayrshire	045_NW	1911
Ayrshire	044_NE	1938
Ayrshire	045_NW	1938
Ordnance Survey Plan	NS20NE	1957
Ordnance Survey Plan	NS21SE	1957
Ordnance Survey Plan	NS30NW	1958
Ordnance Survey Plan	NS31SW	1958
1:10,000	**Mapsheet**	**Published Date**
Ordnance Survey Plan	NS20NE	1972
Ordnance Survey Plan	NS30NW	1977
Ordnance Survey Plan	NS31SW	1978
Ordnance Survey Plan	NS21SE	1987

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	August 2011	As notified
Man Made Mining Cavities Peter Brett Associates	November 2011	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Peter Brett Associates	November 2011	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Historical Land Use Information (1:2,500)	**Version**	**Update Cycle**
Subterranean Features Landmark Information Group Limited	January 2012	Bi-Annually
Ground Stability Data (1:50,000)	**Version**	**Update Cycle**
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Subsidence Insurance Claims SP Property Services	May 2011	Quarterly
Subsidence Investigations CET Group	May 2011	Quarterly

Motion Map Data (1:2,500)	Version	Update Cycle
Motion Map		
Nigel Press Associates - Hampshire	February 2011	As notified
Nigel Press Associates - Cambridge	January 2011	As notified
Nigel Press Associates - Ipswich	January 2011	As notified
Nigel Press Associates - Norwich	January 2011	As notified
Nigel Press Associates - Peterborough	January 2011	As notified
Nigel Press Associates - Barnstaple	July 2010	As notified
Nigel Press Associates - Derbyshire	July 2010	As notified
Nigel Press Associates - Humberside	July 2010	As notified
Nigel Press Associates - Kent	July 2010	As notified
Nigel Press Associates - Lincolnshire	July 2010	As notified
Nigel Press Associates - Nottinghamshire	July 2010	As notified
Nigel Press Associates - Birmingham	May 2009	As notified
Nigel Press Associates - Bournemouth	May 2009	As notified
Nigel Press Associates - Brighton	May 2009	As notified
Nigel Press Associates - Bristol	May 2009	As notified
Nigel Press Associates - Cardiff	May 2009	As notified
Nigel Press Associates - Central London	May 2009	As notified
Nigel Press Associates - Cheltenahm	May 2009	As notified
Nigel Press Associates - Coventry	May 2009	As notified
Nigel Press Associates - Crawley	May 2009	As notified
Nigel Press Associates - Edinburgh	May 2009	As notified
Nigel Press Associates - Exeter	May 2009	As notified
Nigel Press Associates - Glasgow	May 2009	As notified
Nigel Press Associates - Isle of Wight	May 2009	As notified
Nigel Press Associates - Leeds	May 2009	As notified
Nigel Press Associates - Leicester	May 2009	As notified
Nigel Press Associates - Liverpool	May 2009	As notified
Nigel Press Associates - Manchester	May 2009	As notified
Nigel Press Associates - Milton Keynes	May 2009	As notified
Nigel Press Associates - Newcastle	May 2009	As notified
Nigel Press Associates - Northwich	May 2009	As notified
Nigel Press Associates - Nottingham	May 2009	As notified
Nigel Press Associates - Oxford	May 2009	As notified
Nigel Press Associates - Plymouth	May 2009	As notified
Nigel Press Associates - Portsmouth	May 2009	As notified
Nigel Press Associates - Preston	May 2009	As notified
Nigel Press Associates - Reading	May 2009	As notified
Nigel Press Associates - Sheffield	May 2009	As notified
Nigel Press Associates - Stoke	May 2009	As notified
Nigel Press Associates - Swindon	May 2009	As notified
Nigel Press Associates - Tonbridge	May 2009	As notified
Nigel Press Associates - North London	November 2008	As notified
Nigel Press Associates - Head Office	September 2008	As notified

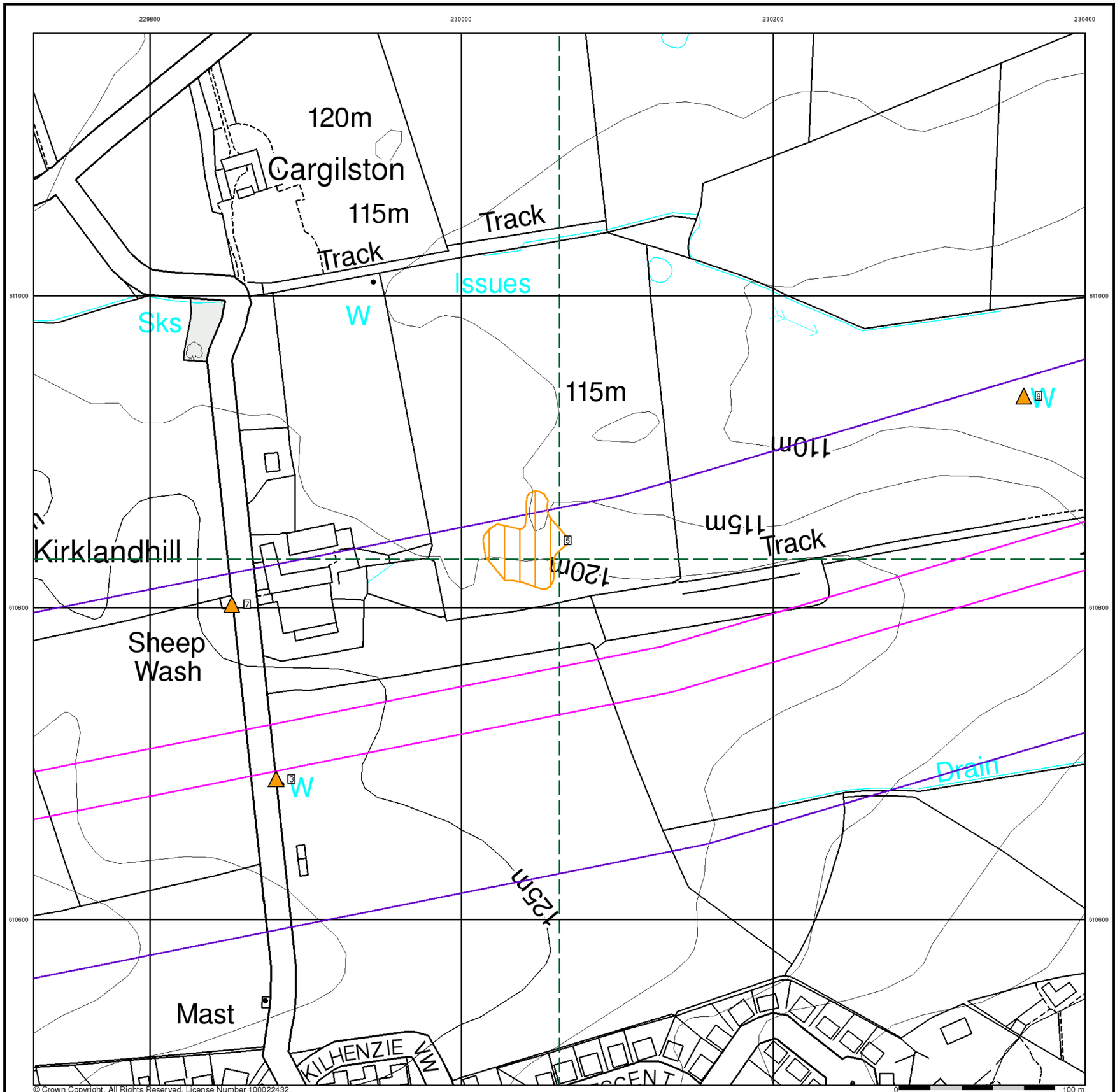
Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Ordnance Survey Licensed Partner
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	THE COAL AUTHORITY
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett
Wardell Armstrong	wardell armstrong your earth our world
Johnson Poole & Bloomer	JPB

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	**Landmark Information Group Limited** The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk



Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

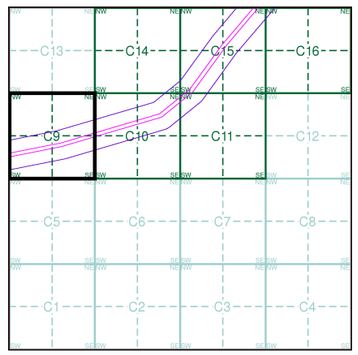
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▤
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment C9



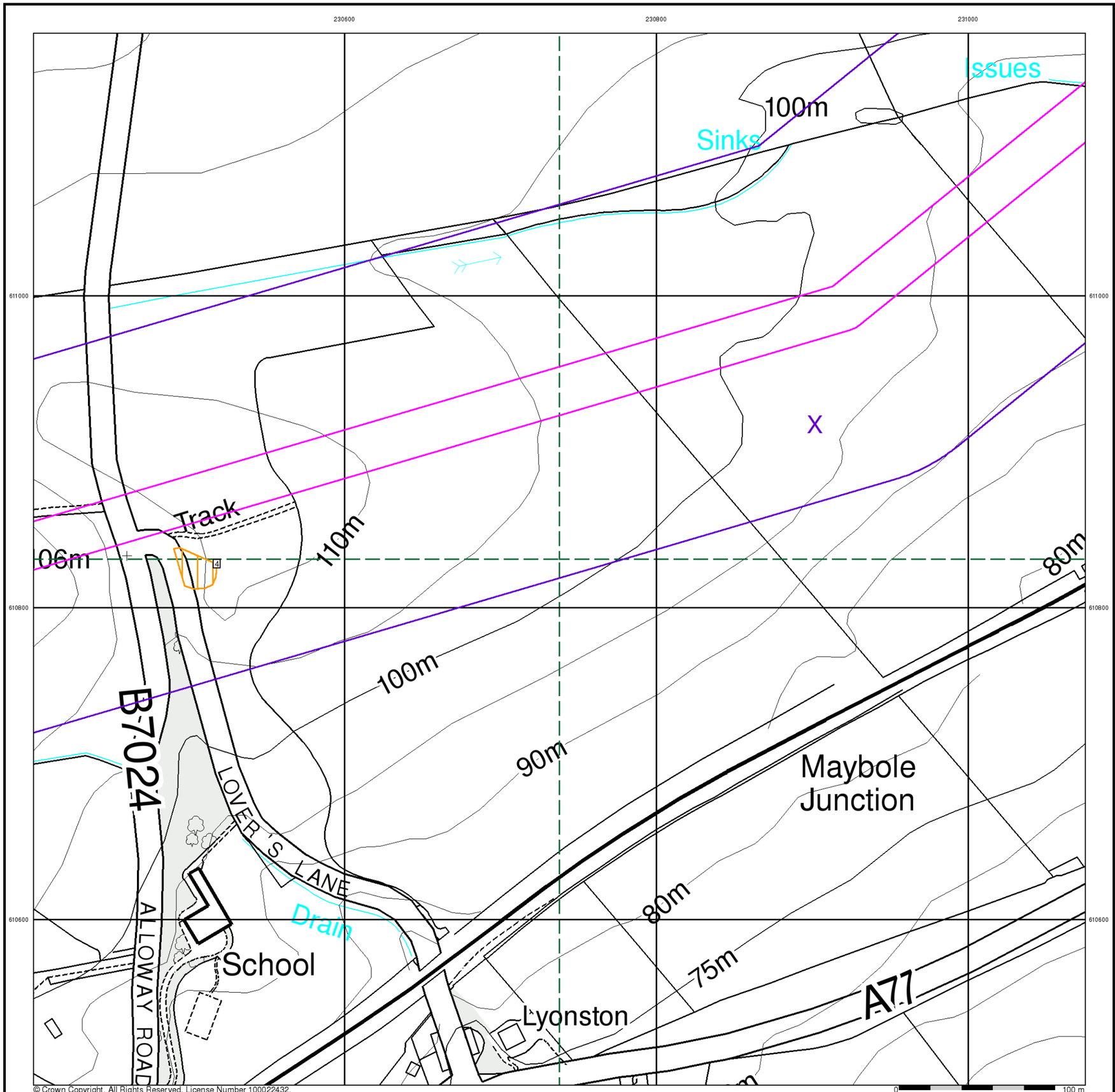
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | X Bearing Reference Point | Map ID | Several of Type at Location

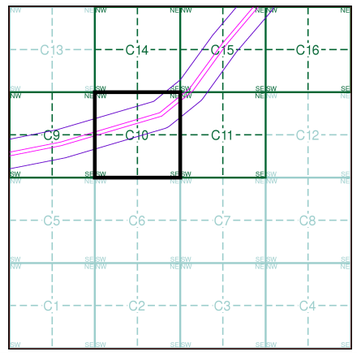
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment C10



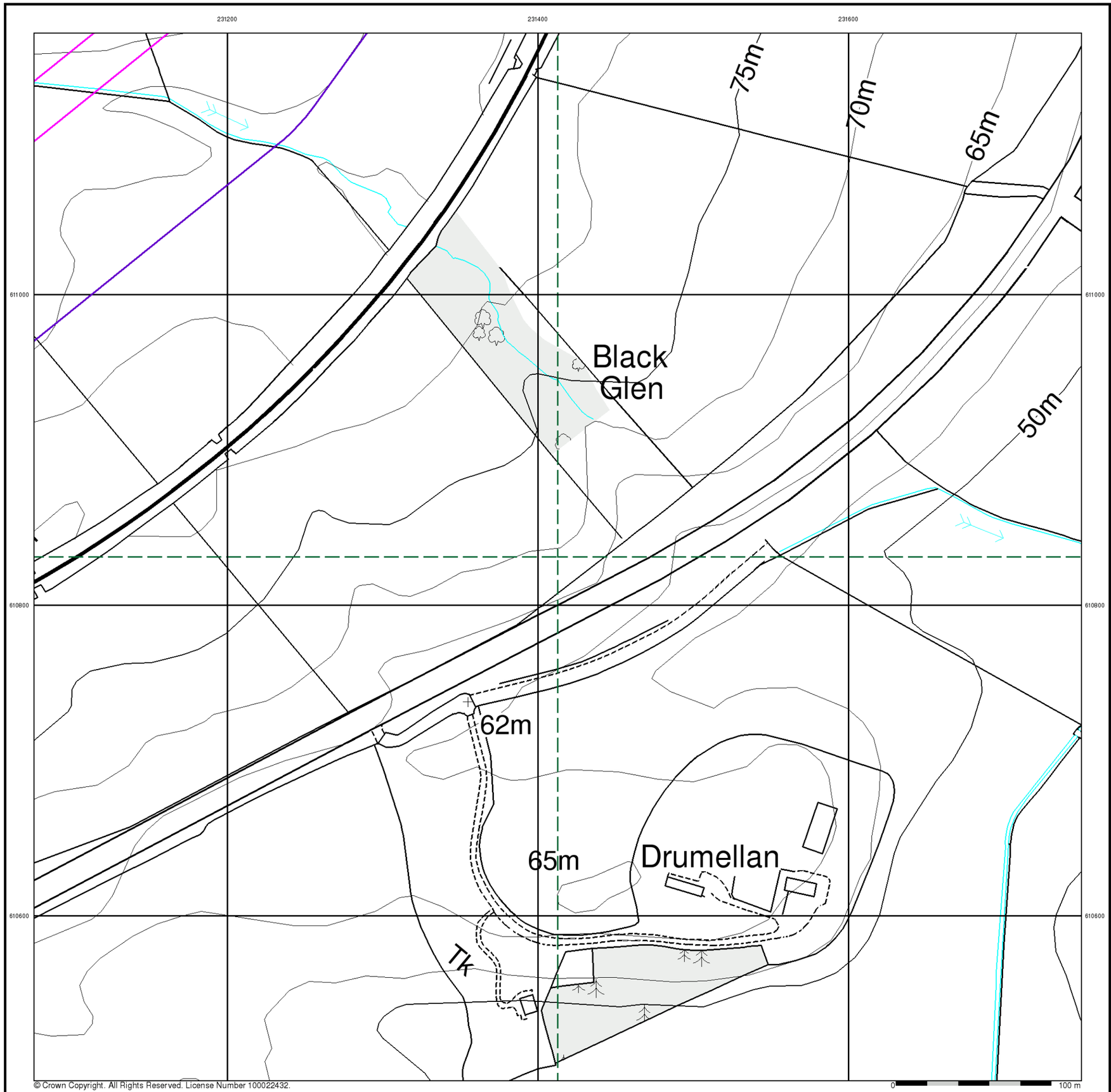
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

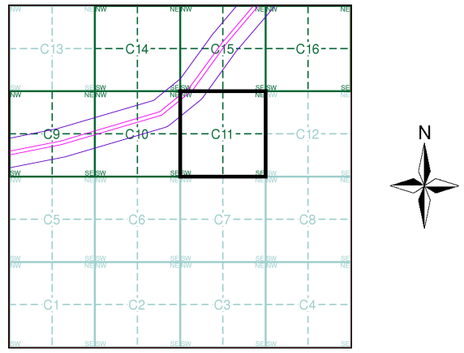
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▭
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▭
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment C11



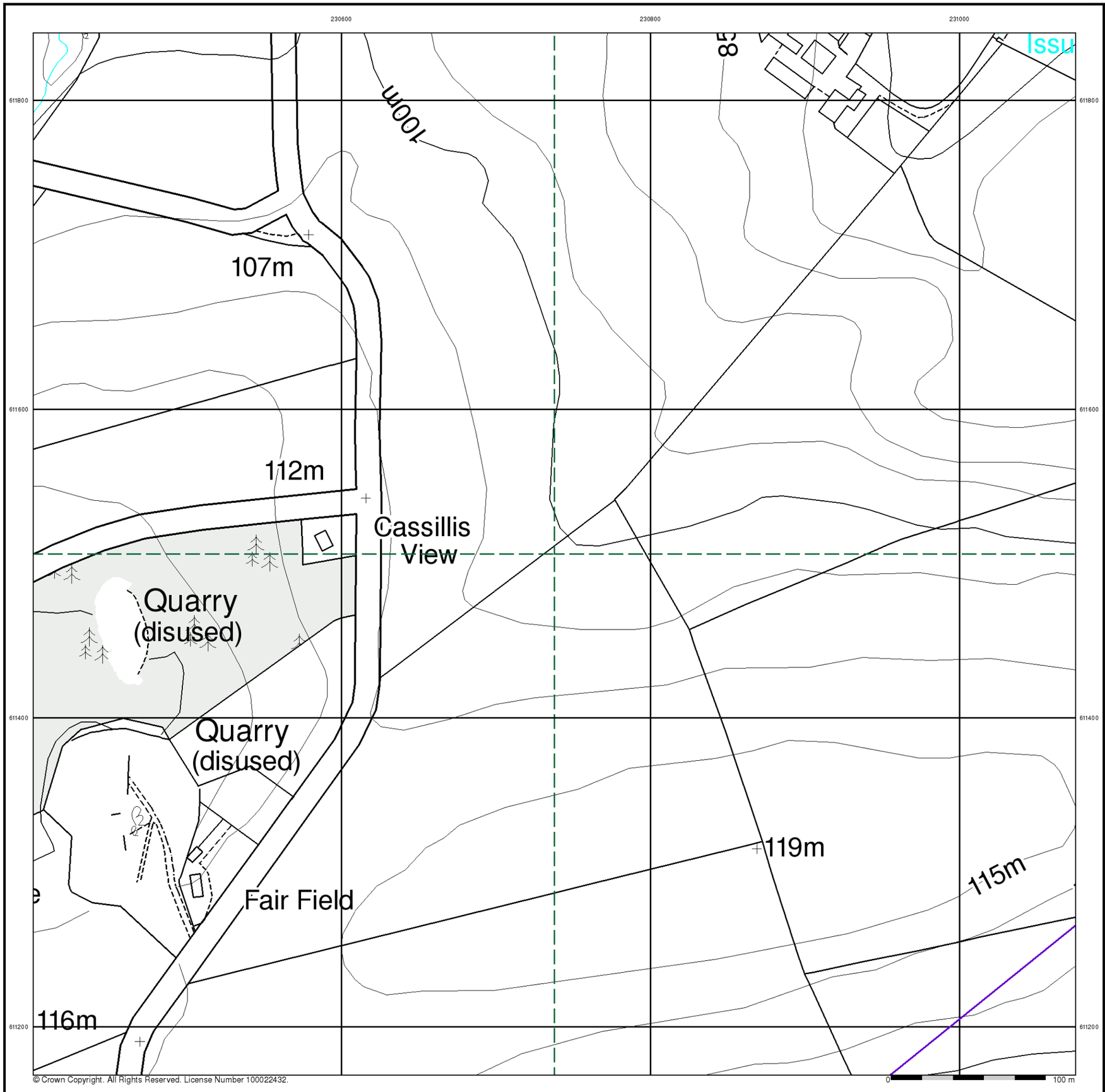
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

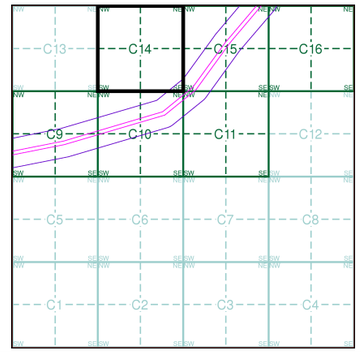
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▭
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▭
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment C14



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Plot Buffer (m):	100

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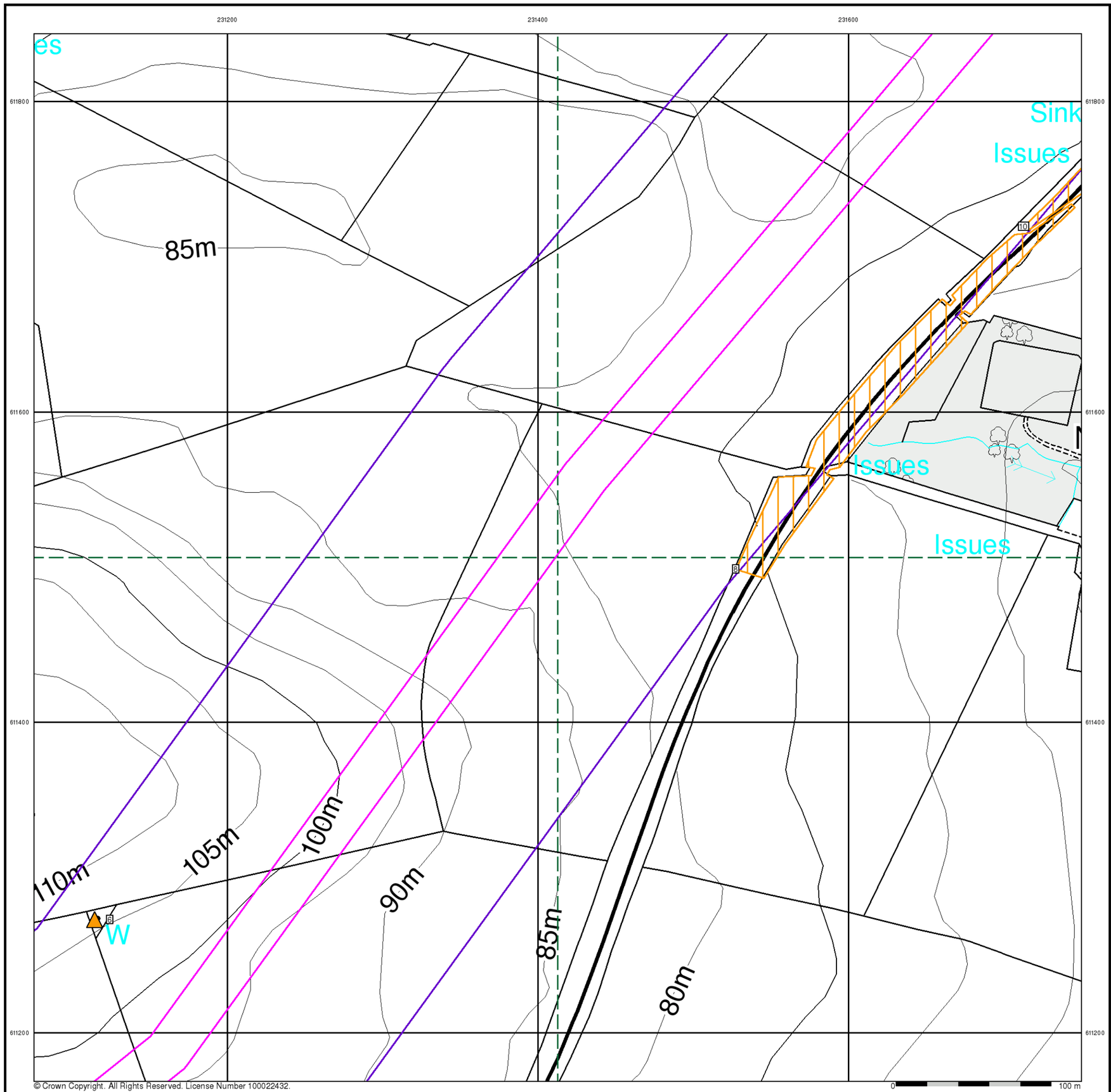


Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID | Several of Type at Location

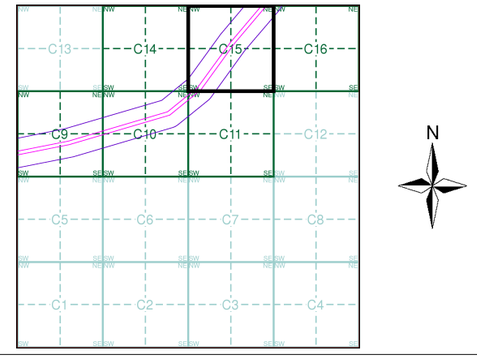
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▤
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment C15



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Plot Buffer (m):	100

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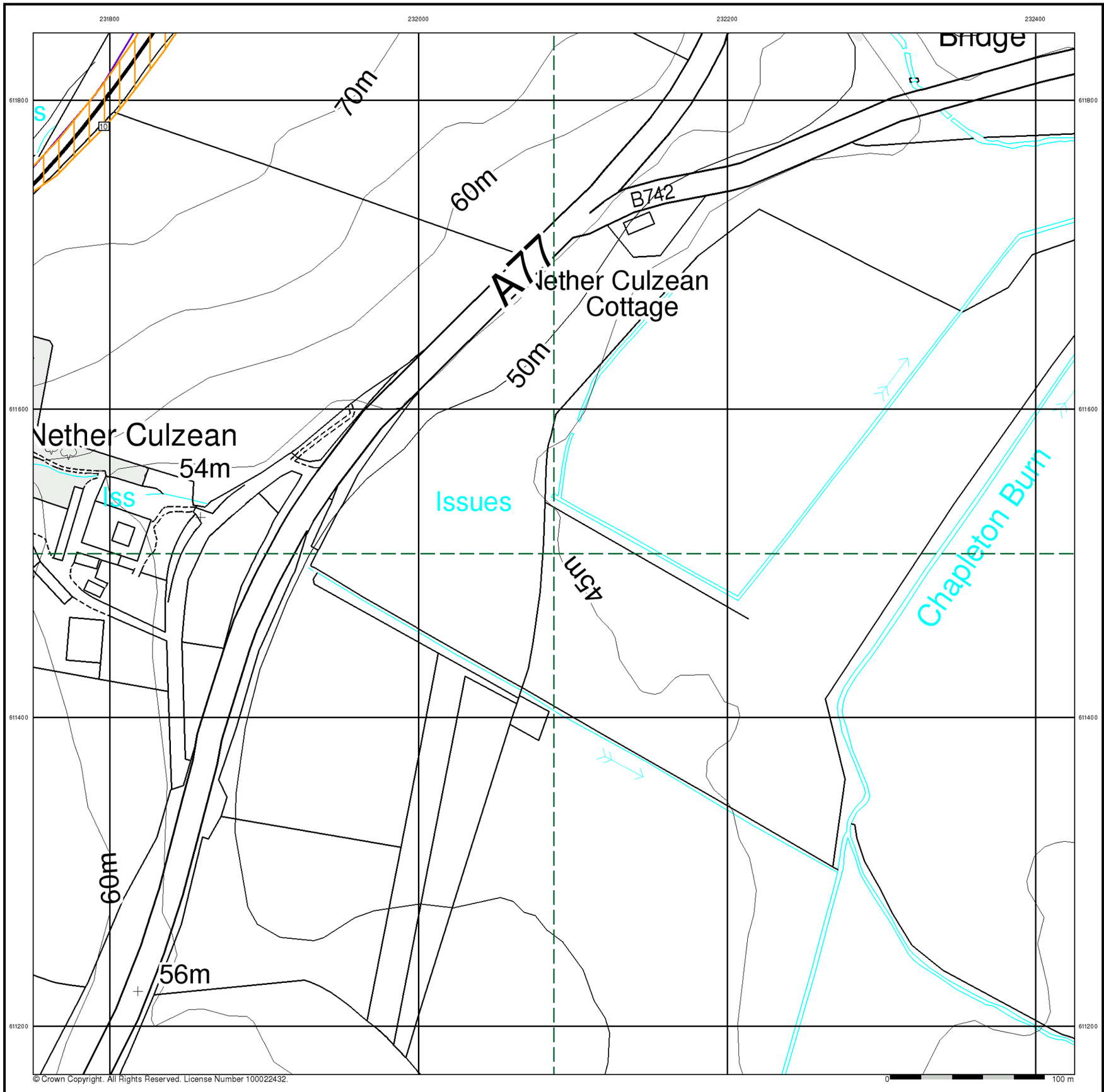


Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

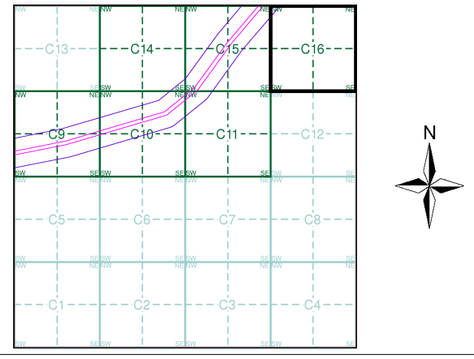
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▥

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment C16



Order Details

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Customer Ref:	Co25000182
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Site Area (Ha):	16.08
Plot Buffer (m):	100

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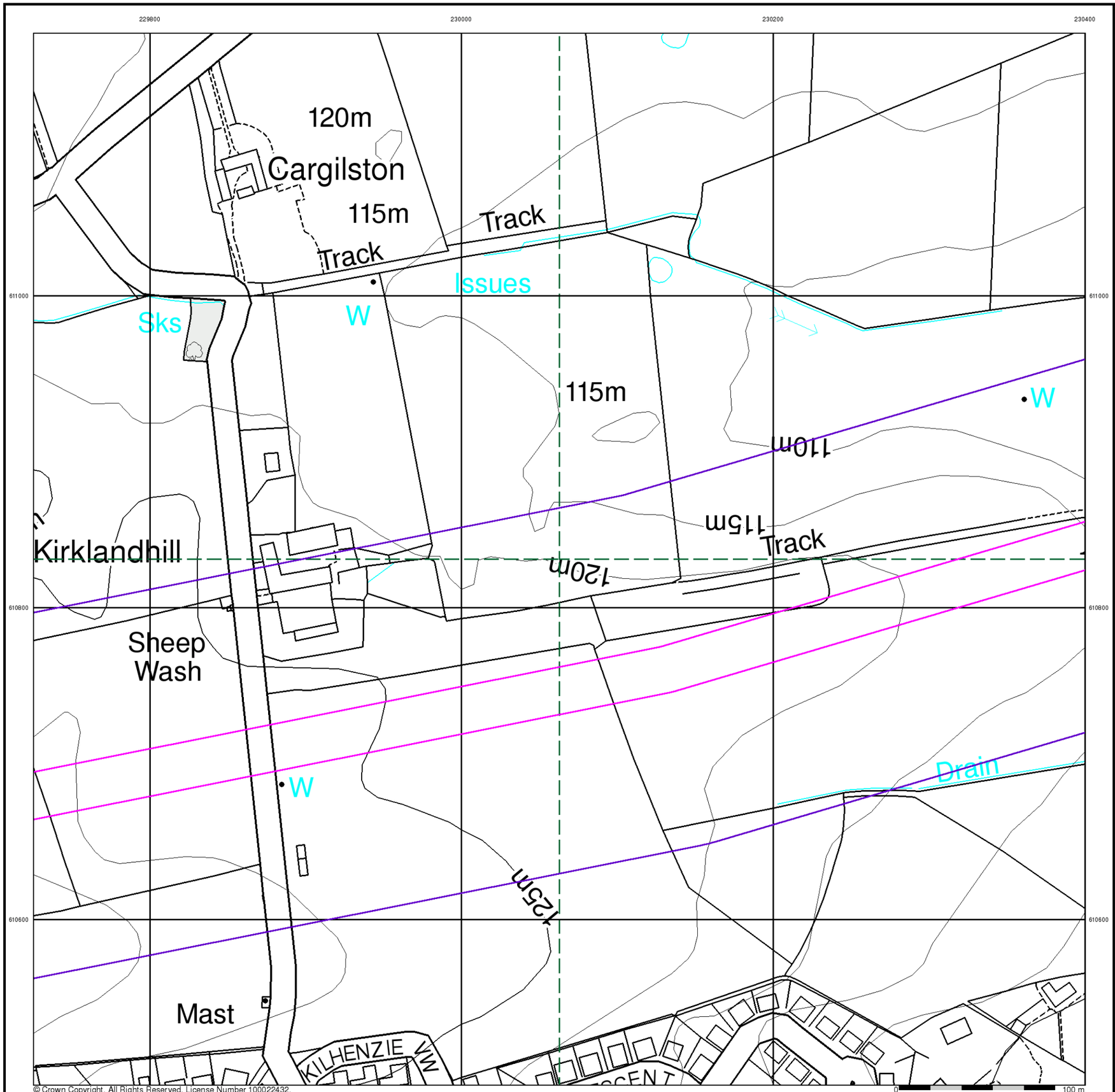


Envirocheck® Mining

Motion Map Data (1:2,500)

General

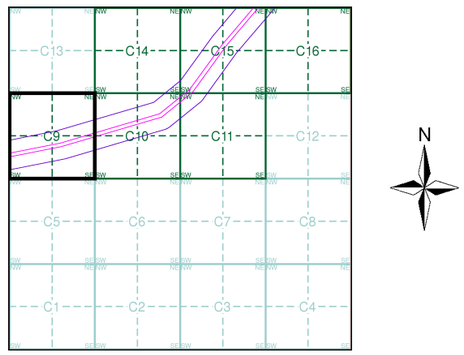
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

Upward Movement > 3.5mm per year	
Upward Movement 1.5mm to 3.5mm per year	
Stable 1.5mm to -1.5mm per year	
Downward Movement -1.5mm to -3.5mm per year	
Downward Movement > -3.5mm per year	

Mining and Ground Stability - Segment C9



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
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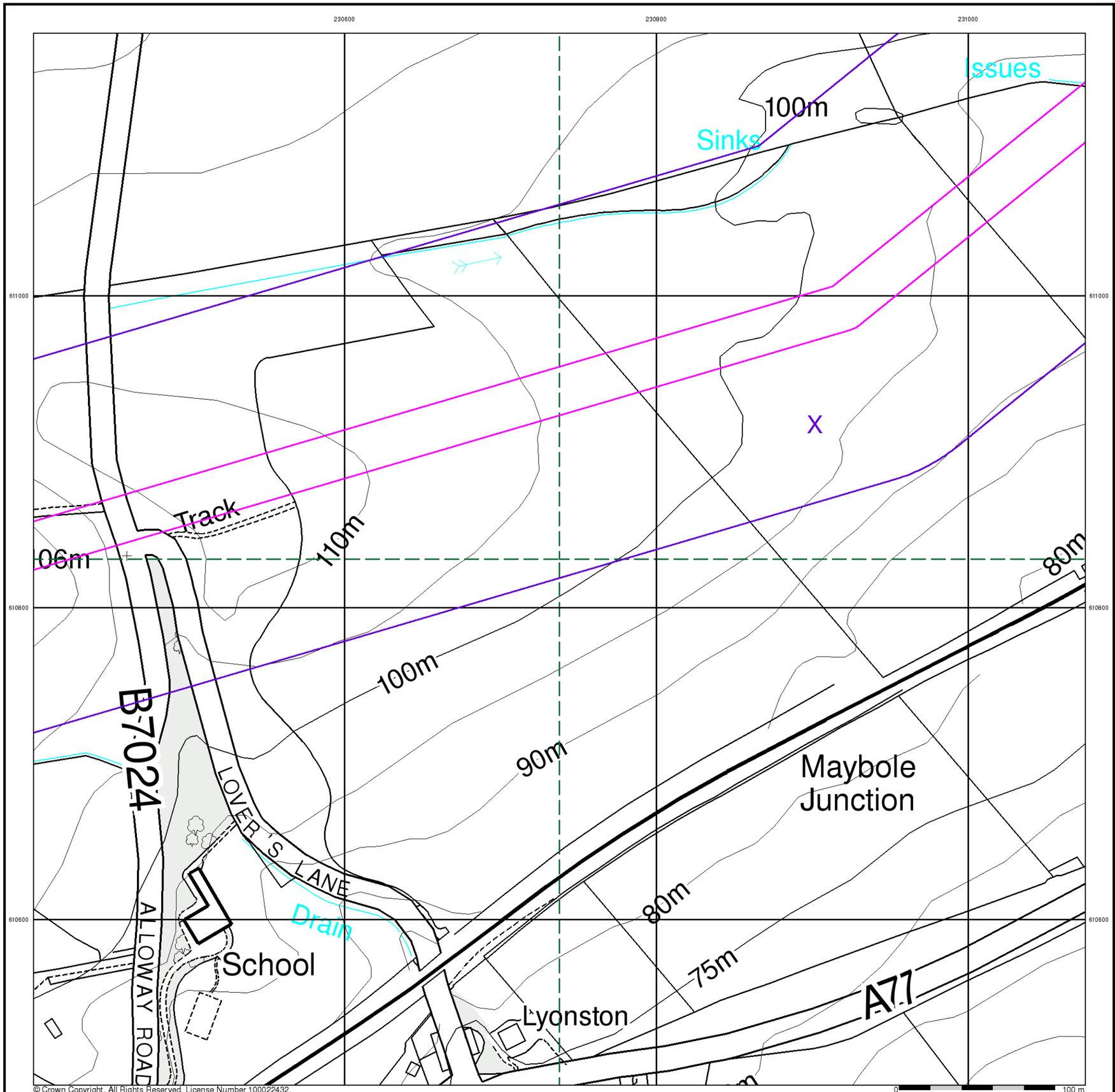


Envirocheck® Mining

Motion Map Data (1:2,500)

General

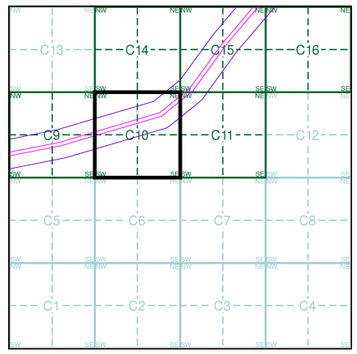
Specified Site | Specified Buffer(s) | X Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment C10



Order Details

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National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Plot Buffer (m):	100

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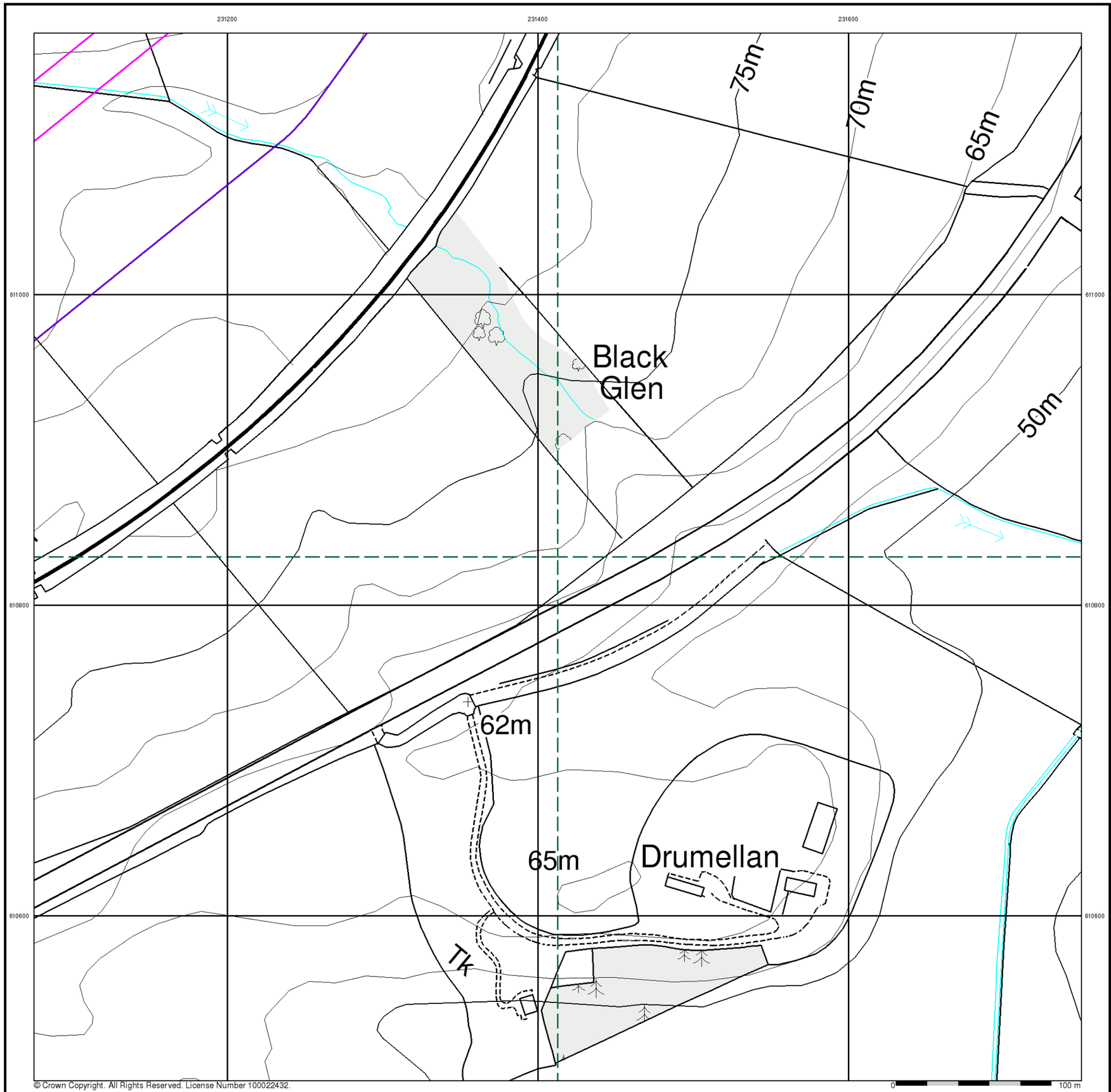


Envirocheck® Mining

Motion Map Data (1:2,500)

General

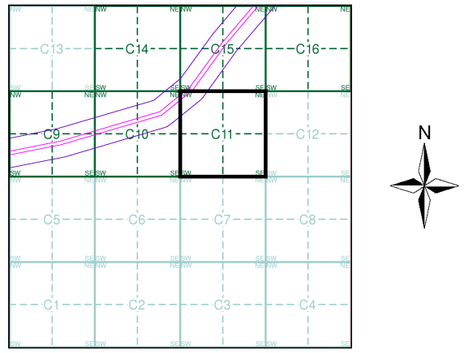
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

Upward Movement > 3.5mm per year	
Upward Movement 1.5mm to 3.5mm per year	
Stable 1.5mm to -1.5mm per year	
Downward Movement -1.5mm to -3.5mm per year	
Downward Movement > -3.5mm per year	

Mining and Ground Stability - Segment C11



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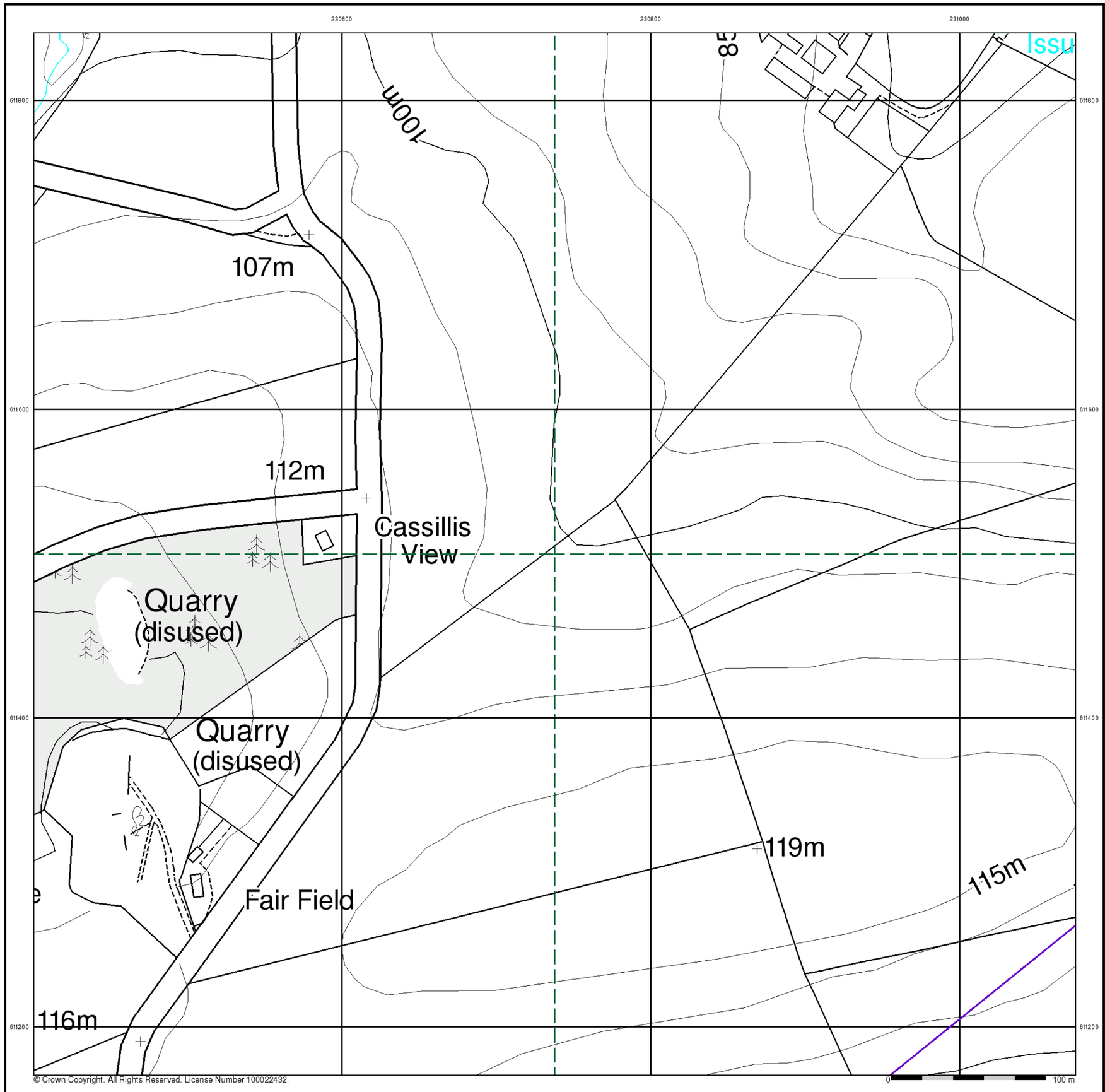


Envirocheck® Mining

Motion Map Data (1:2,500)

General

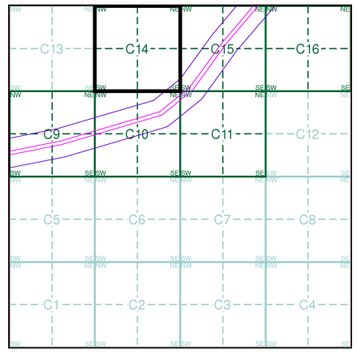
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment C14



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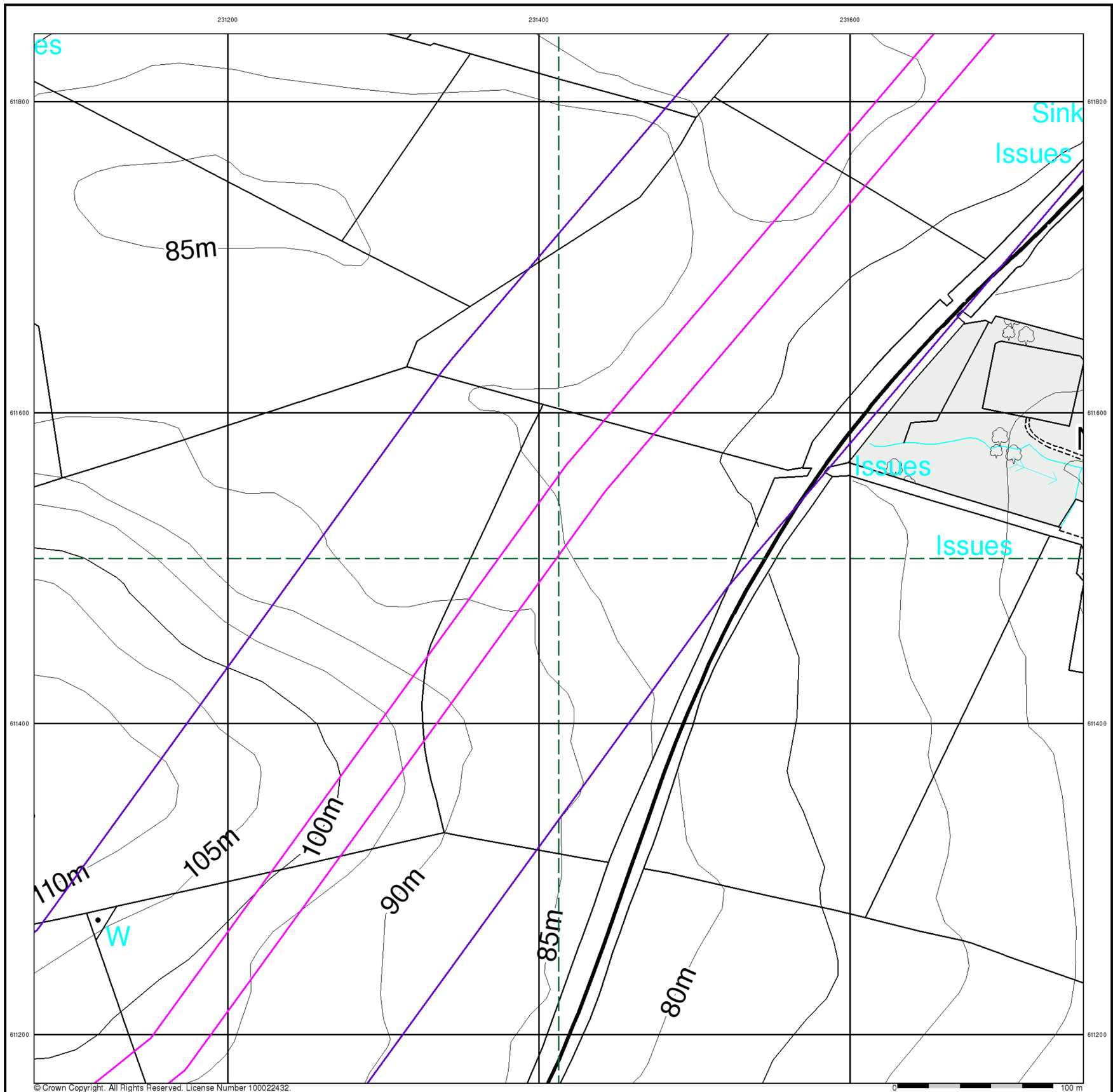


Envirocheck® Mining

Motion Map Data (1:2,500)

General

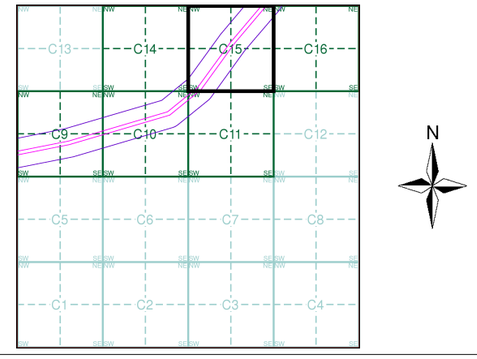
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment C15



Order Details

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Slice:	C
Site Area (Ha):	16.08
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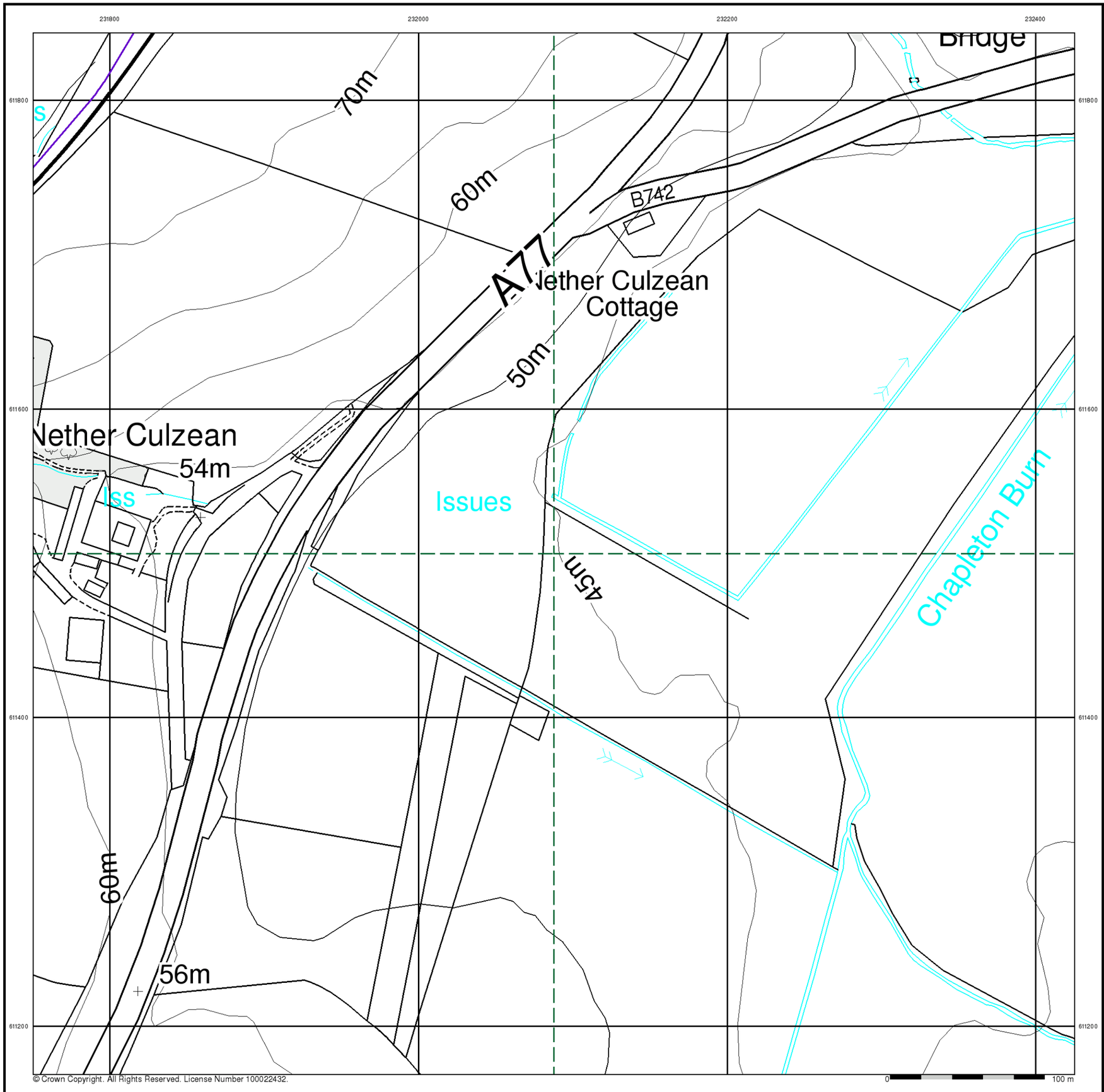


Envirocheck® Mining

Motion Map Data (1:2,500)

General

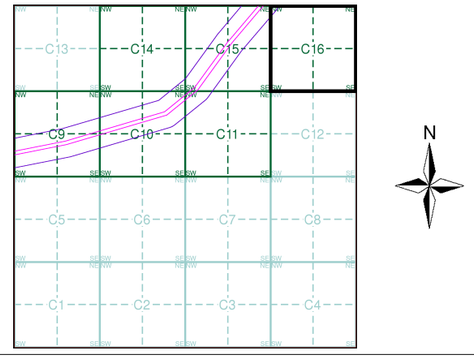
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

Upward Movement > 3.5mm per year	
Upward Movement 1.5mm to 3.5mm per year	
Stable 1.5mm to -1.5mm per year	
Downward Movement -1.5mm to -3.5mm per year	
Downward Movement > -3.5mm per year	

Mining and Ground Stability - Segment C16



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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy.
County Borough Boundary (England)
Co. Burgh Bdy.
County Burgh Boundary (Scotland)
R.D. Bdy.
Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

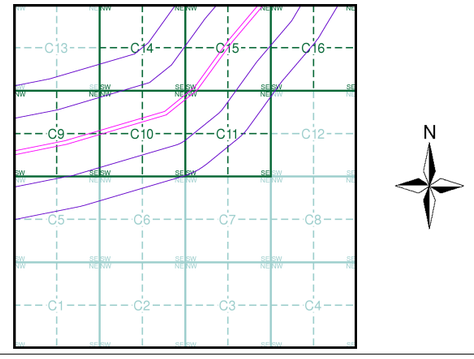
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

Envirocheck®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Ayrshire	1:10,560	1859 - 1860	2
Ayrshire	1:10,560	1896 - 1897	3
Ayrshire	1:10,560	1910 - 1911	4
Ayrshire	1:10,560	1938	5
Historical Aerial Photography	1:10,560	1946	6
Ordnance Survey Plan	1:10,000	1957 - 1958	7
Ordnance Survey Plan	1:10,000	1971 - 1978	8
Ordnance Survey Plan	1:10,000	1987	9
10K Raster Mapping	1:10,000	2006	10
10K Raster Mapping	1:10,000	2012	11

Historical Map - Slice C



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
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Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

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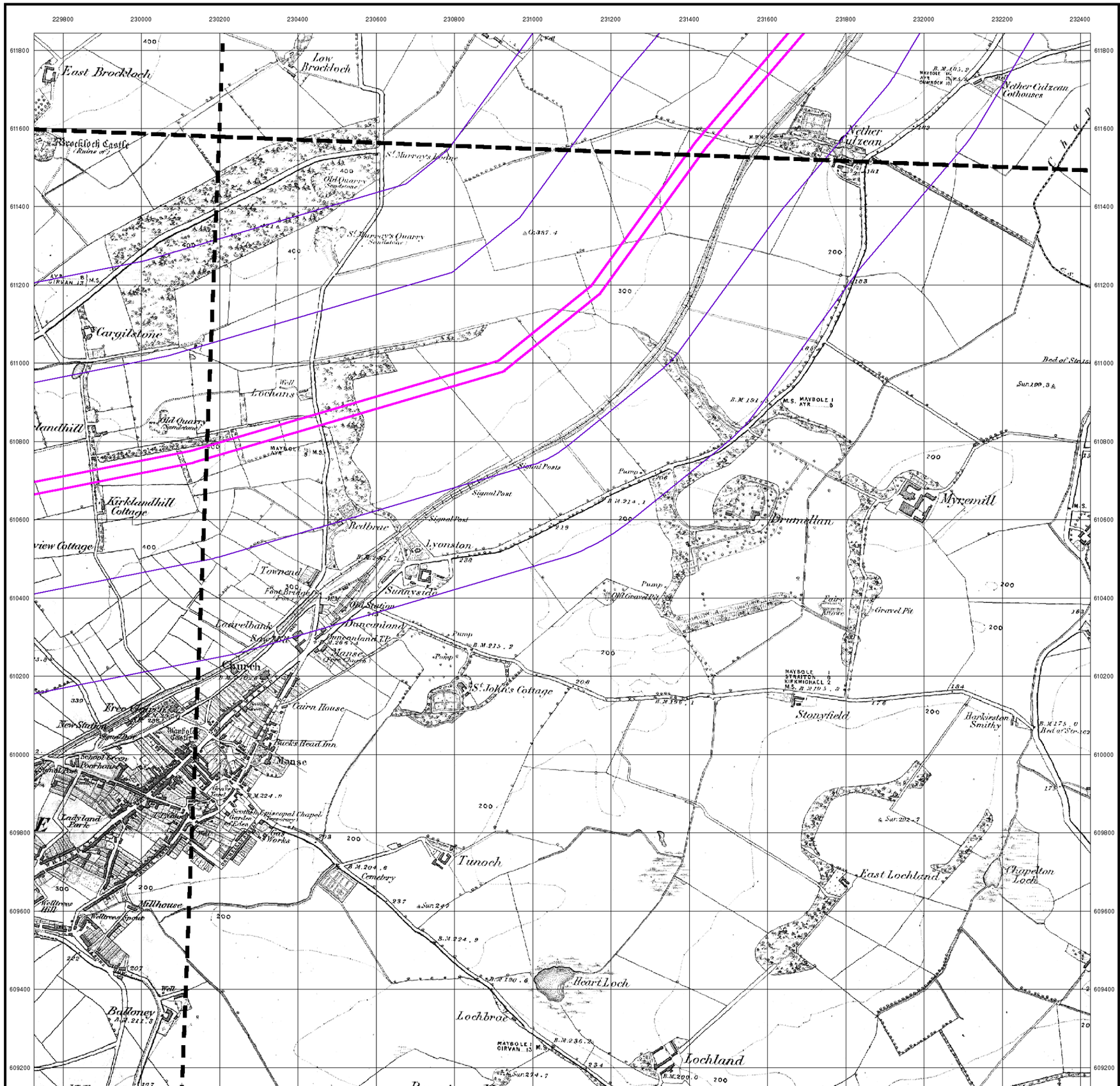


Envirocheck®

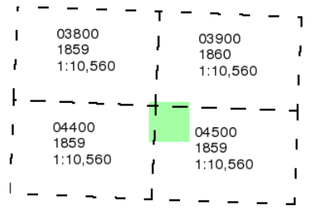
Ayrshire

Published 1859 - 1860

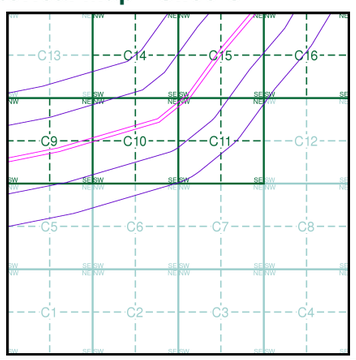
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice C



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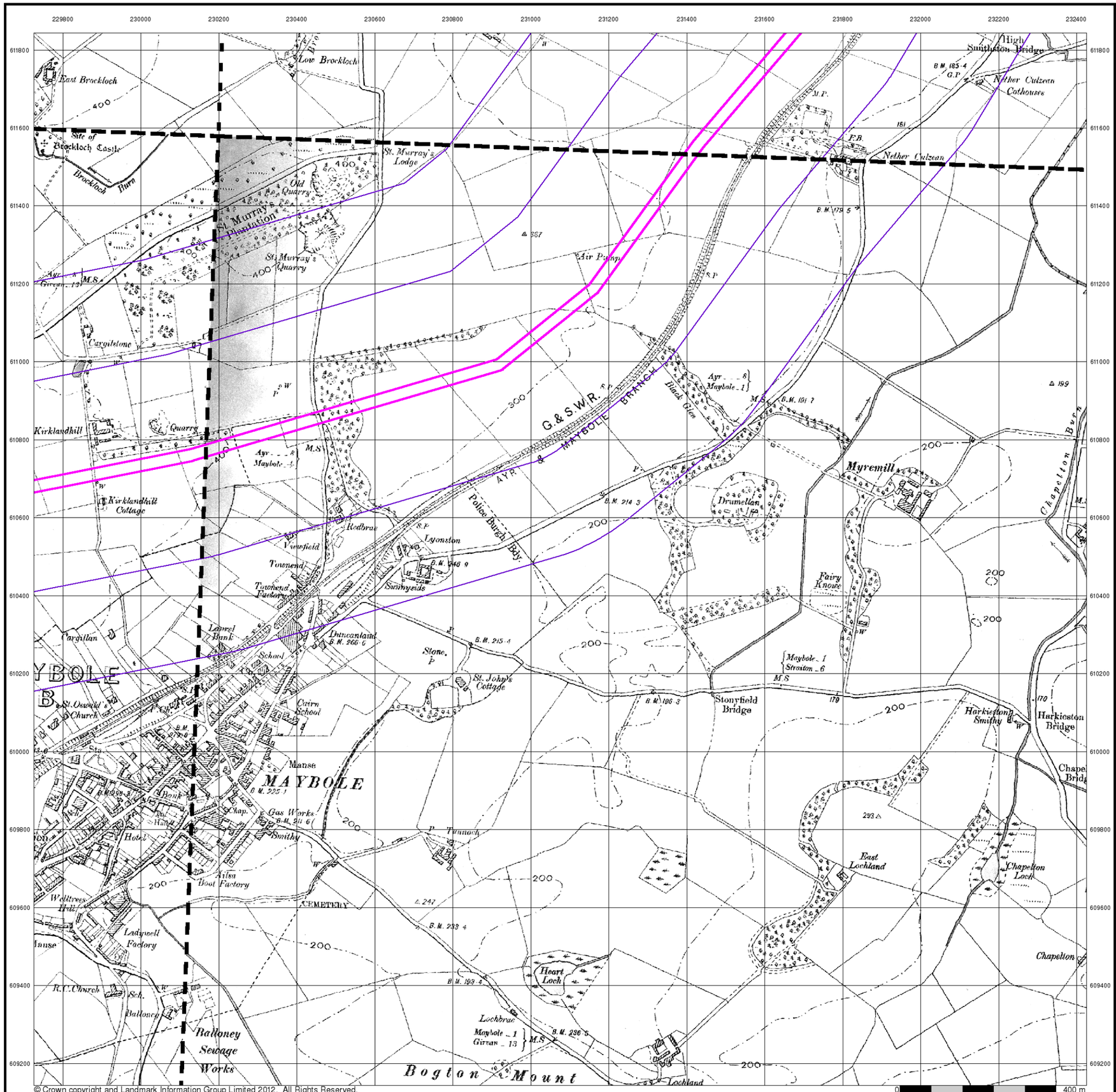

Envirocheck®

Ayrshire

Published 1896 - 1897

Source map scale - 1:10,560

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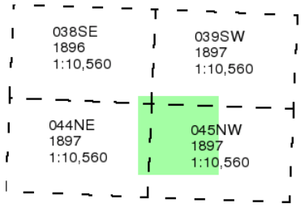
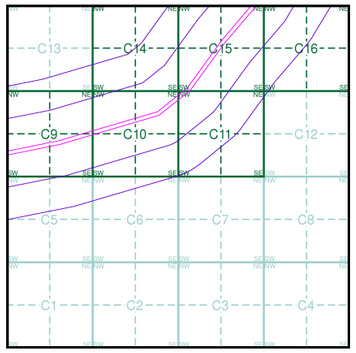


Historical Map - Slice C



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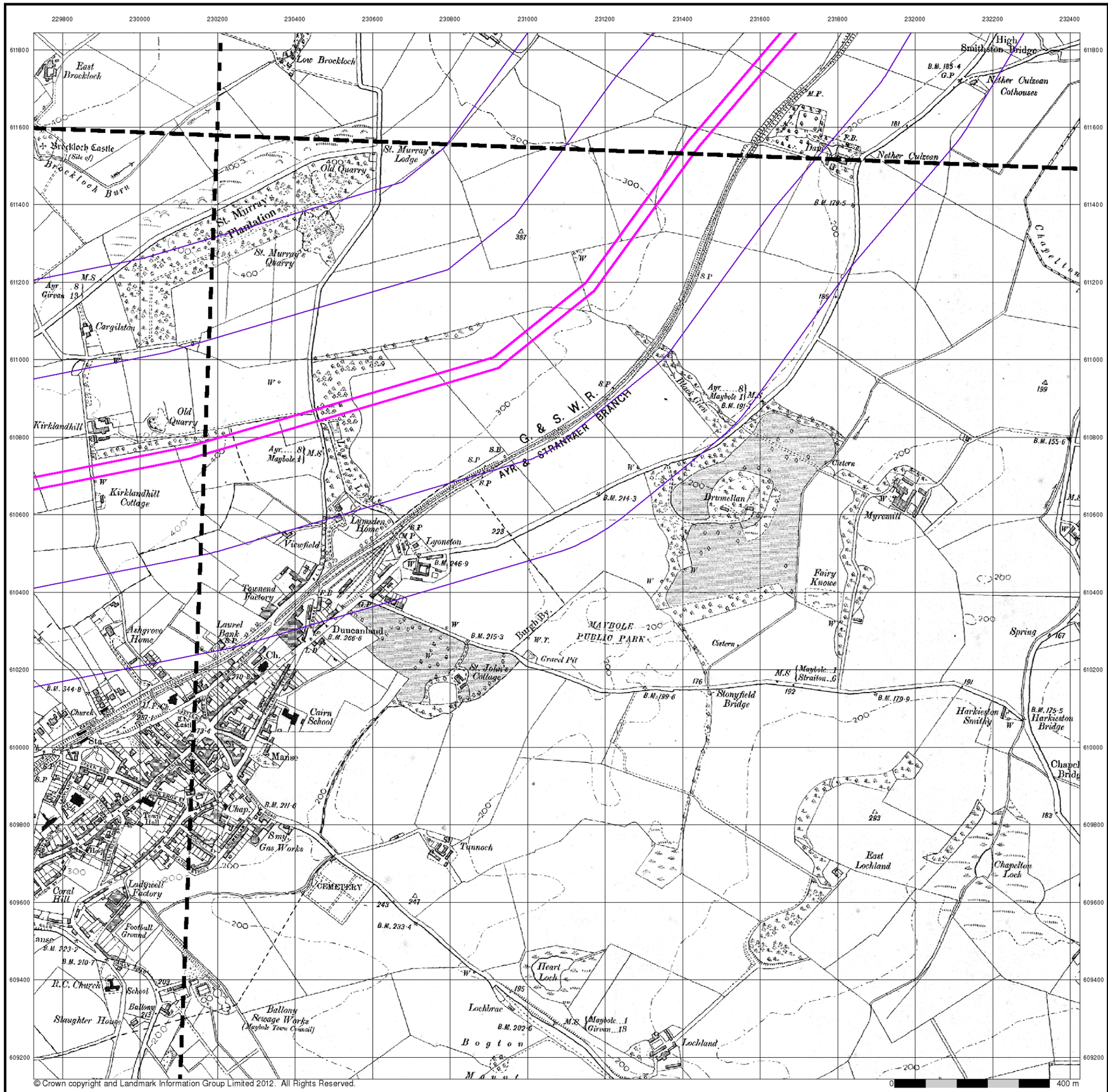
Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

Ayrshire

Published 1910 - 1911

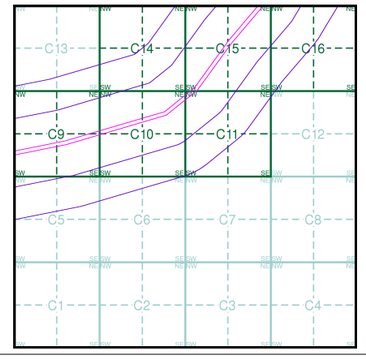
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

038SE 1911 1:10,560	039SW 1910 1:10,560
044NE 1910 1:10,560	045NW 1911 1:10,560

Historical Map - Slice C



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

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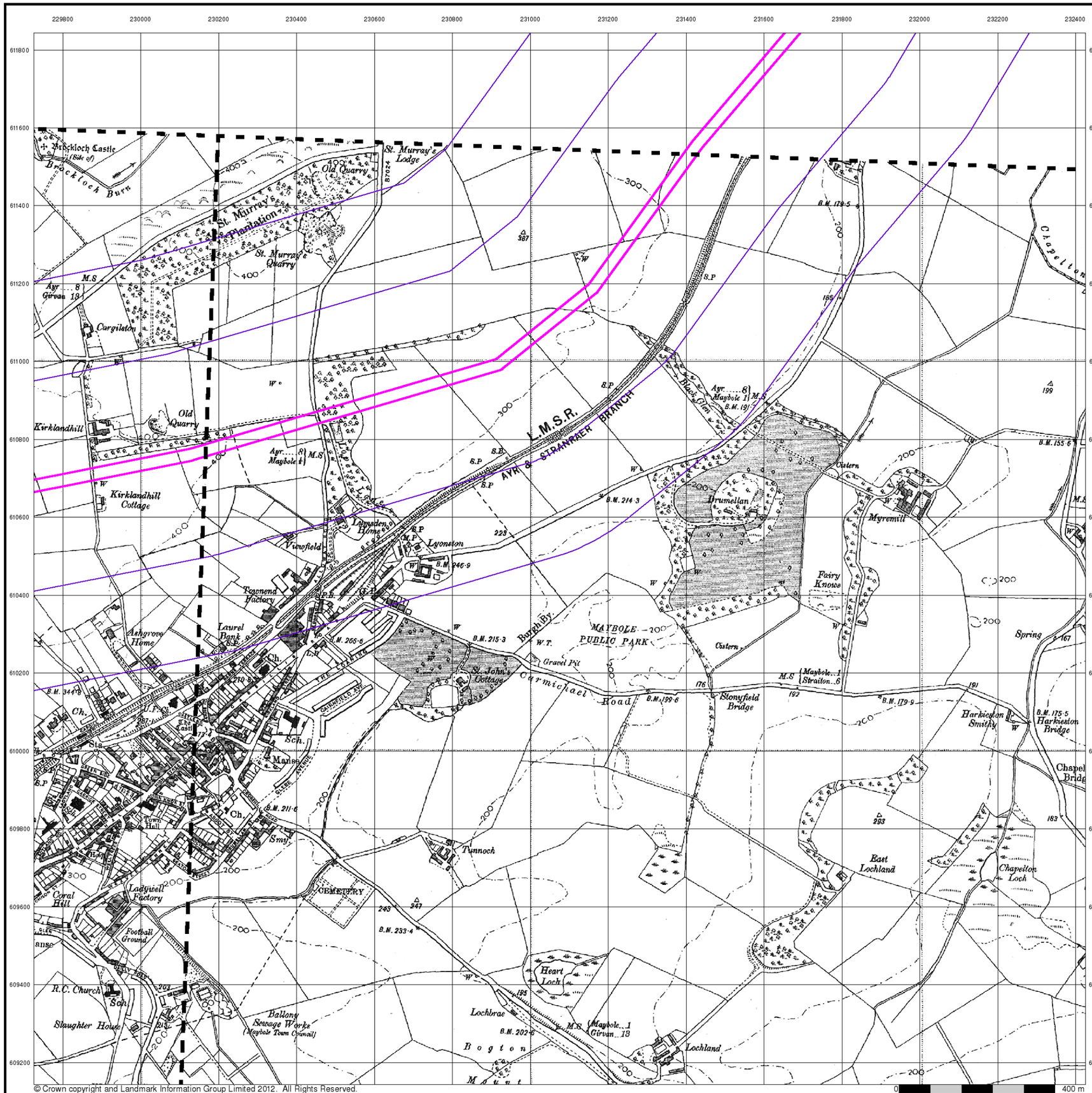


Envirocheck®

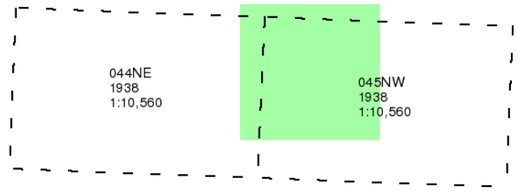
Ayrshire

Published 1938

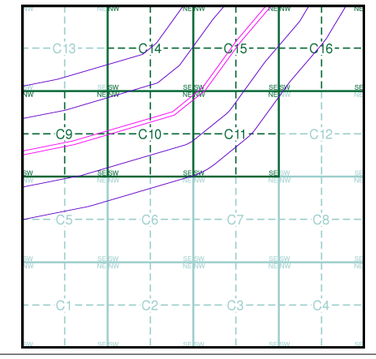
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

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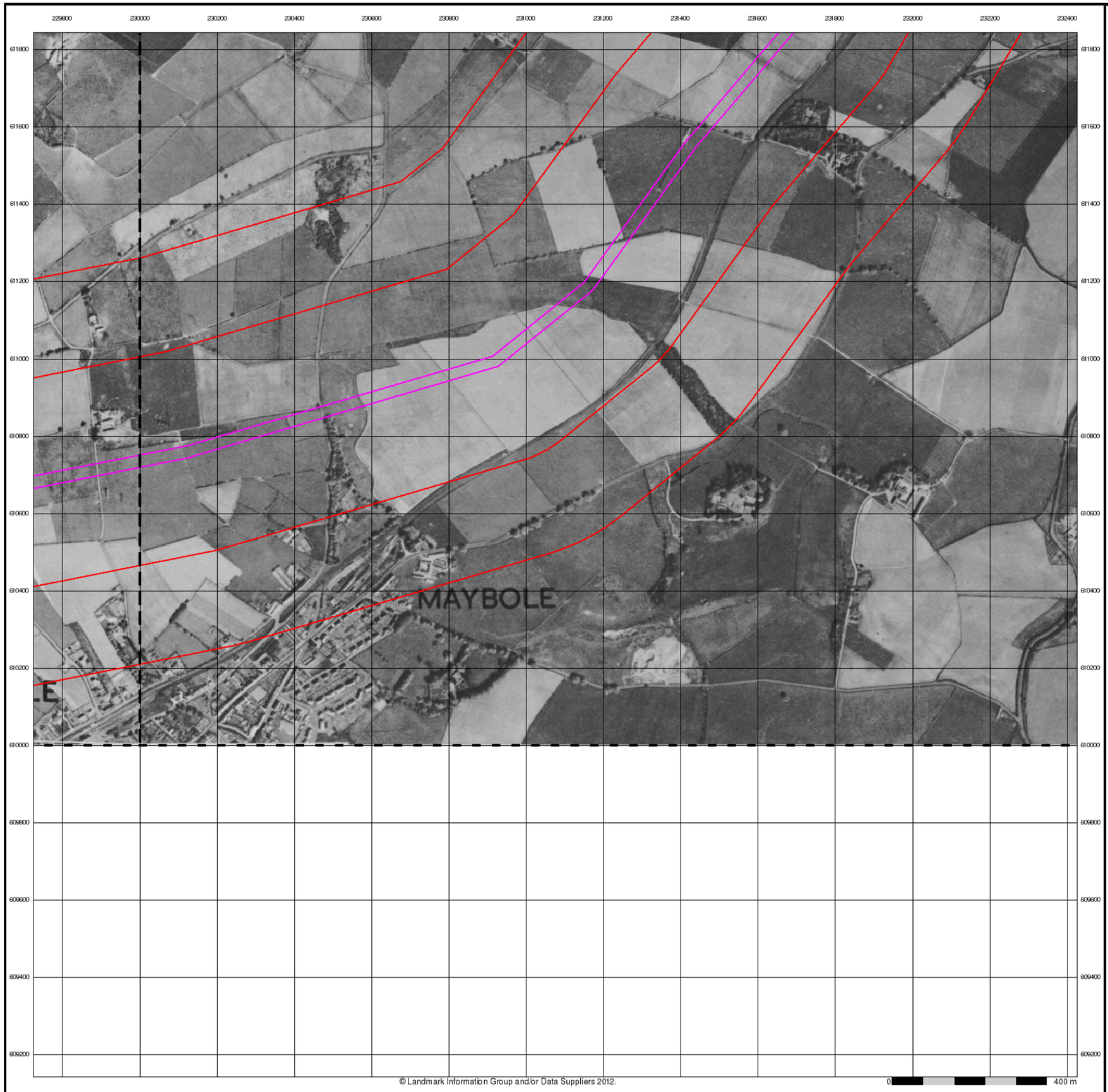


Envirocheck®

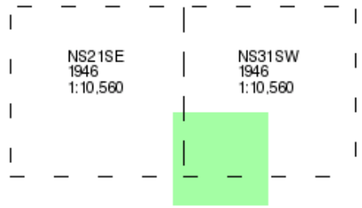
Historical Aerial Photography

Published 1946

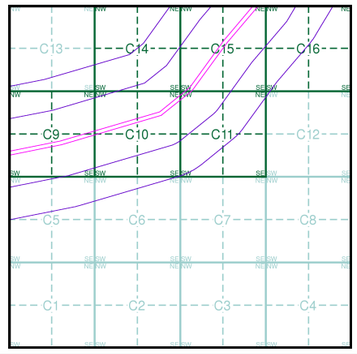
Source map scale - 1:10,560

The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

Map Name(s) and Date(s)



Historical Aerial Photography - Slice C



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

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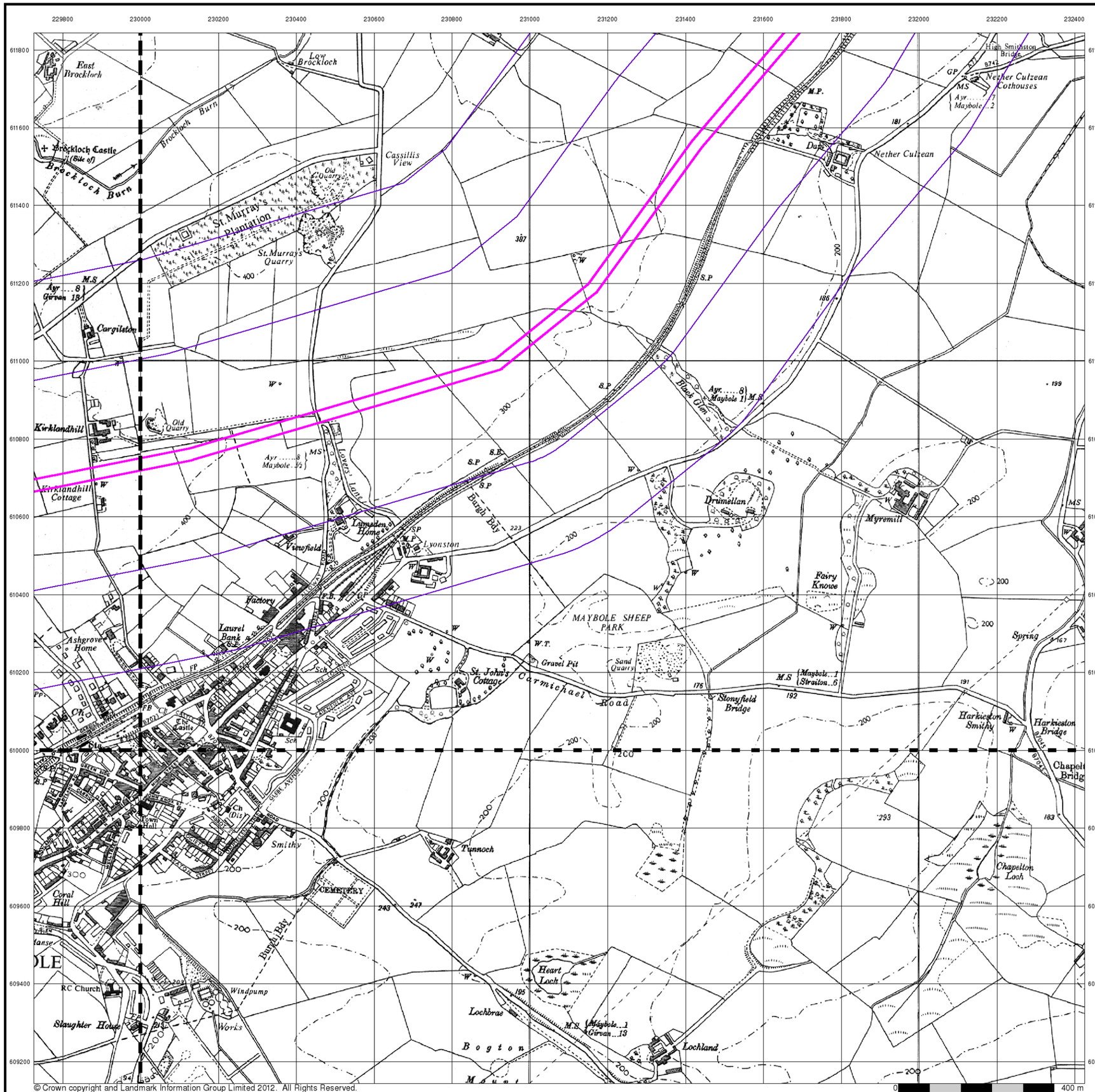


Envirocheck®

Ordnance Survey Plan

Published 1957 - 1958

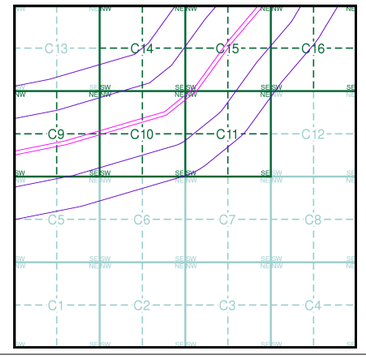
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

NS21SE 1957 1:10,560	NS31SW 1958 1:10,560
NS20NE 1957 1:10,560	NS30NW 1958 1:10,560

Historical Map - Slice C



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

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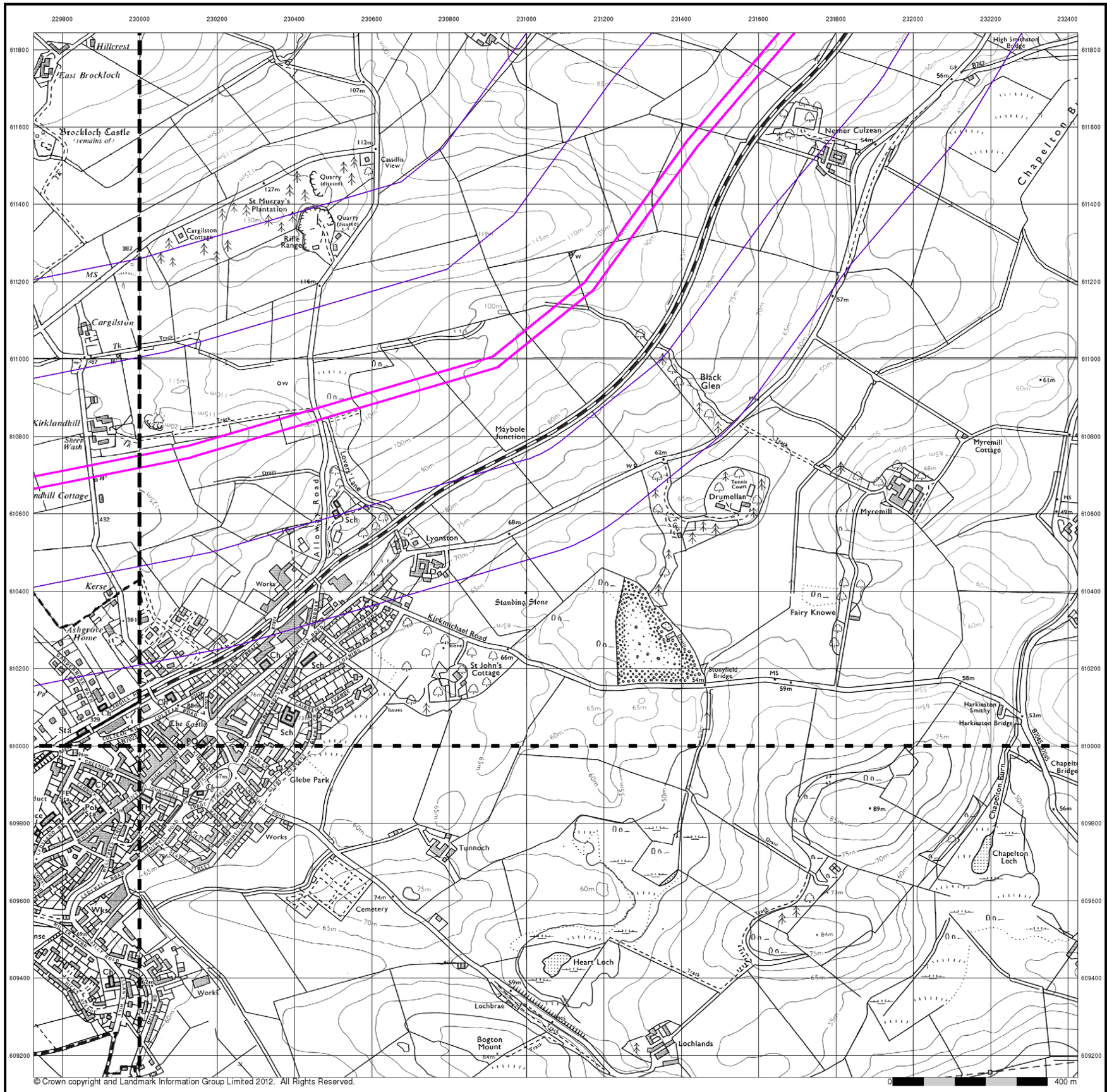


Ordnance Survey Plan

Published 1971 - 1978

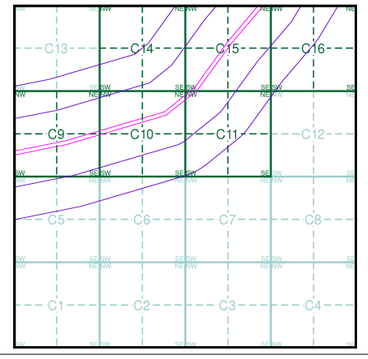
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

NS21SE 1971 1:10,560	NS31SW 1978 1:10,000
NS20NE 1972 1:10,000	NS30NW 1977 1:10,000

Historical Map - Slice C



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
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Site Details

Site at, Maybole, South Ayrshire

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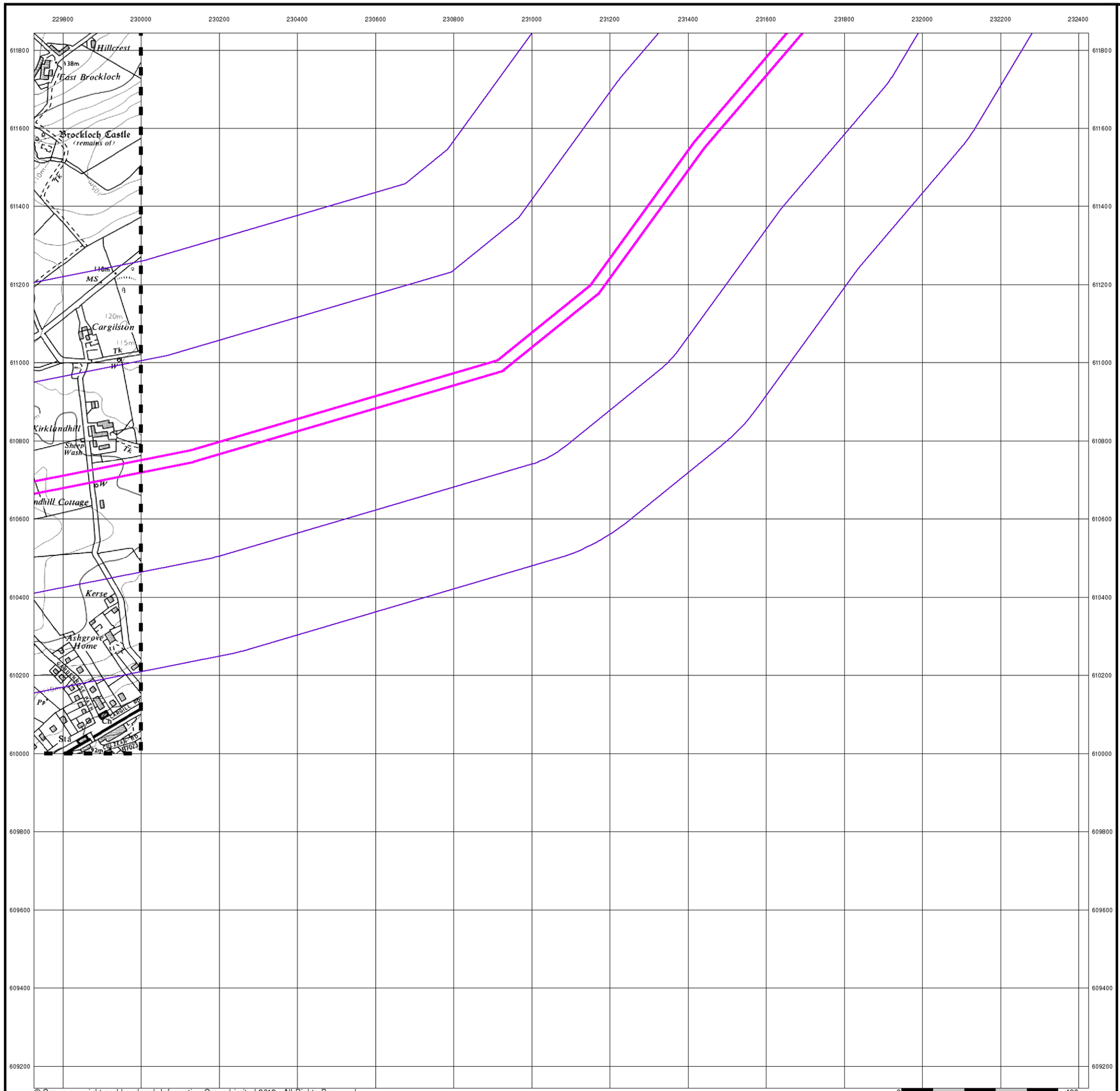


Envirocheck®

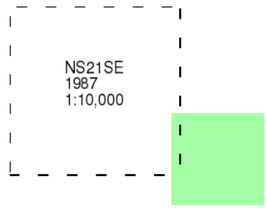
Ordnance Survey Plan

Published 1987

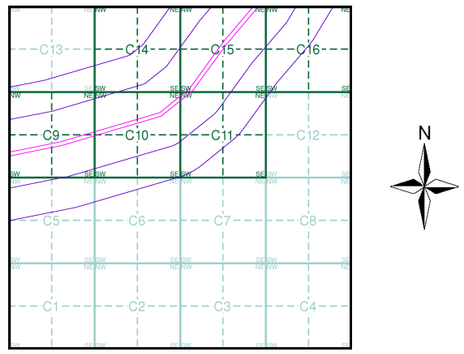
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice C



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

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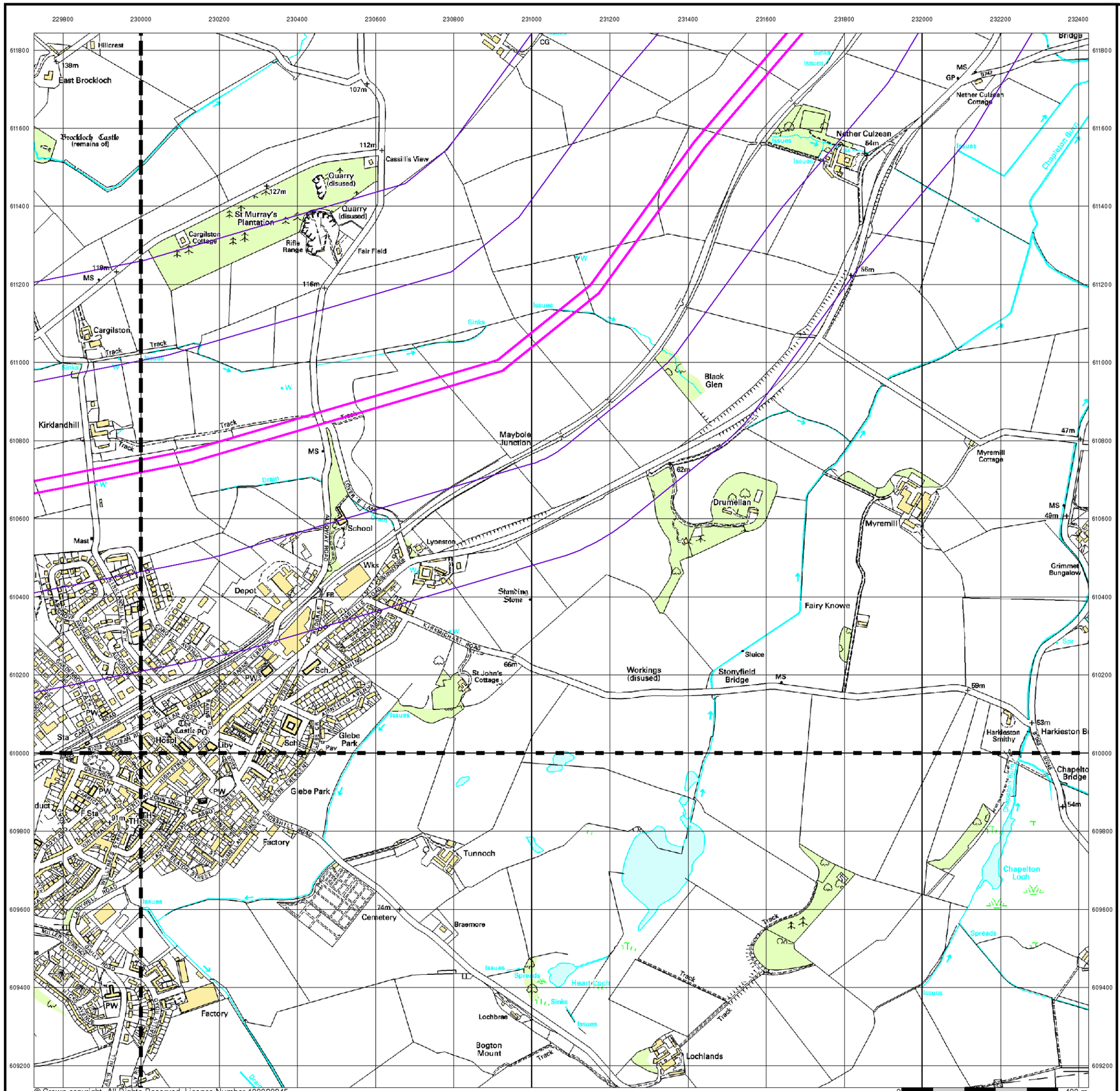


Envirocheck®

10k Raster Mapping

Published 2006

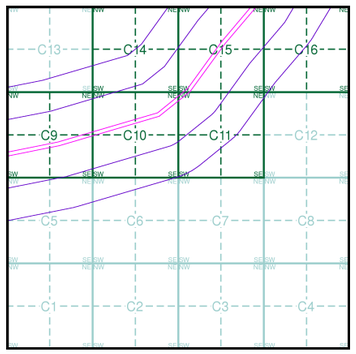
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

NS21SE 2006 1:10,000	NS31SW 2006 1:10,000
NS20NE 2006 1:10,000	NS30NW 2006 1:10,000

Historical Map - Slice C



Order Details

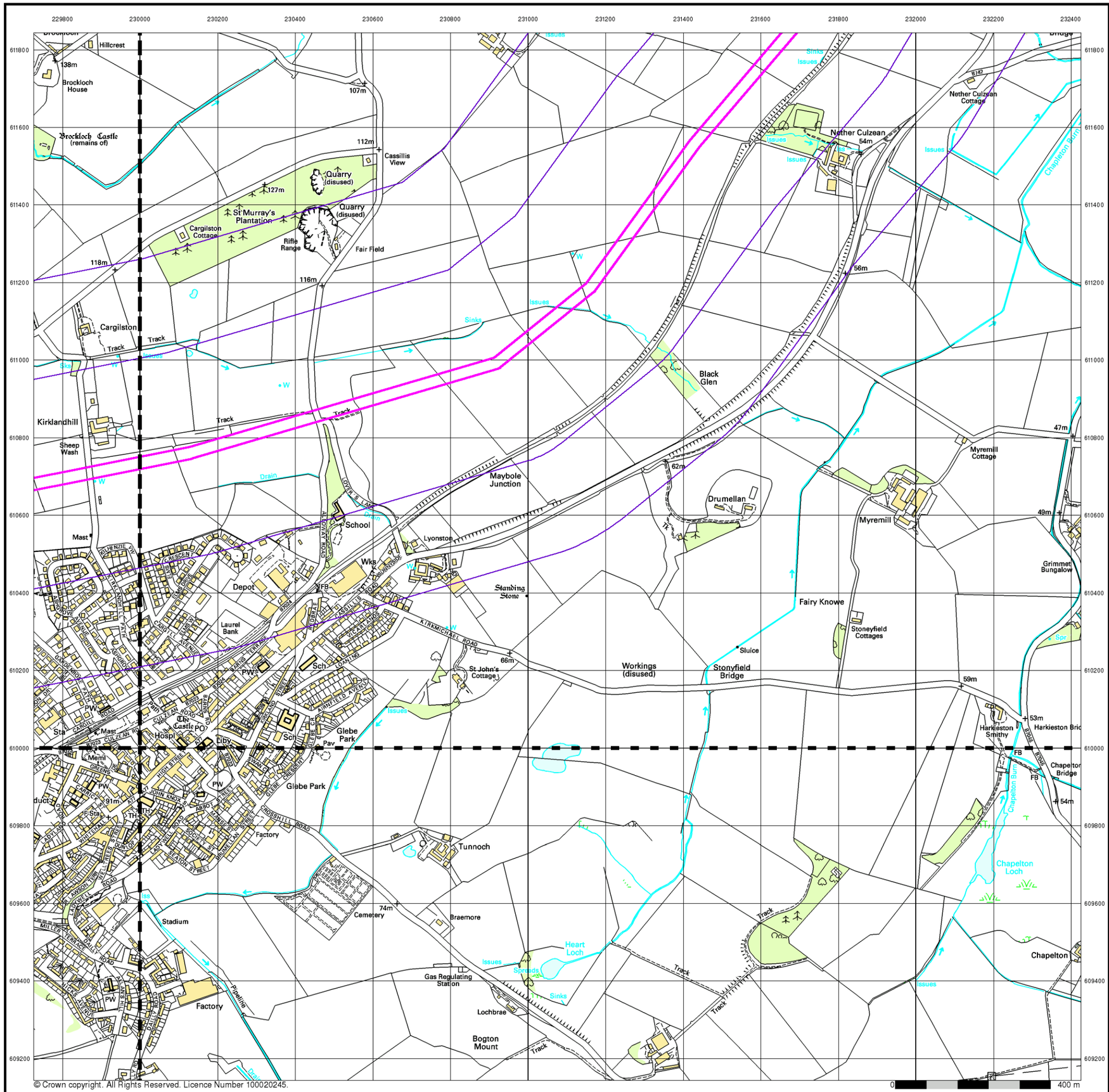
Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

10k Raster Mapping

Published 2012

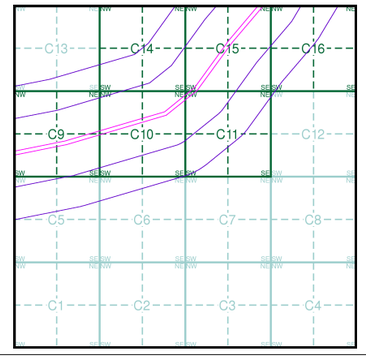
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

NS21SE 2012 1:10,000	NS31SW 2012 1:10,000
NS20NE 2012 1:10,000	NS30NW 2012 1:10,000

Historical Map - Slice C



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

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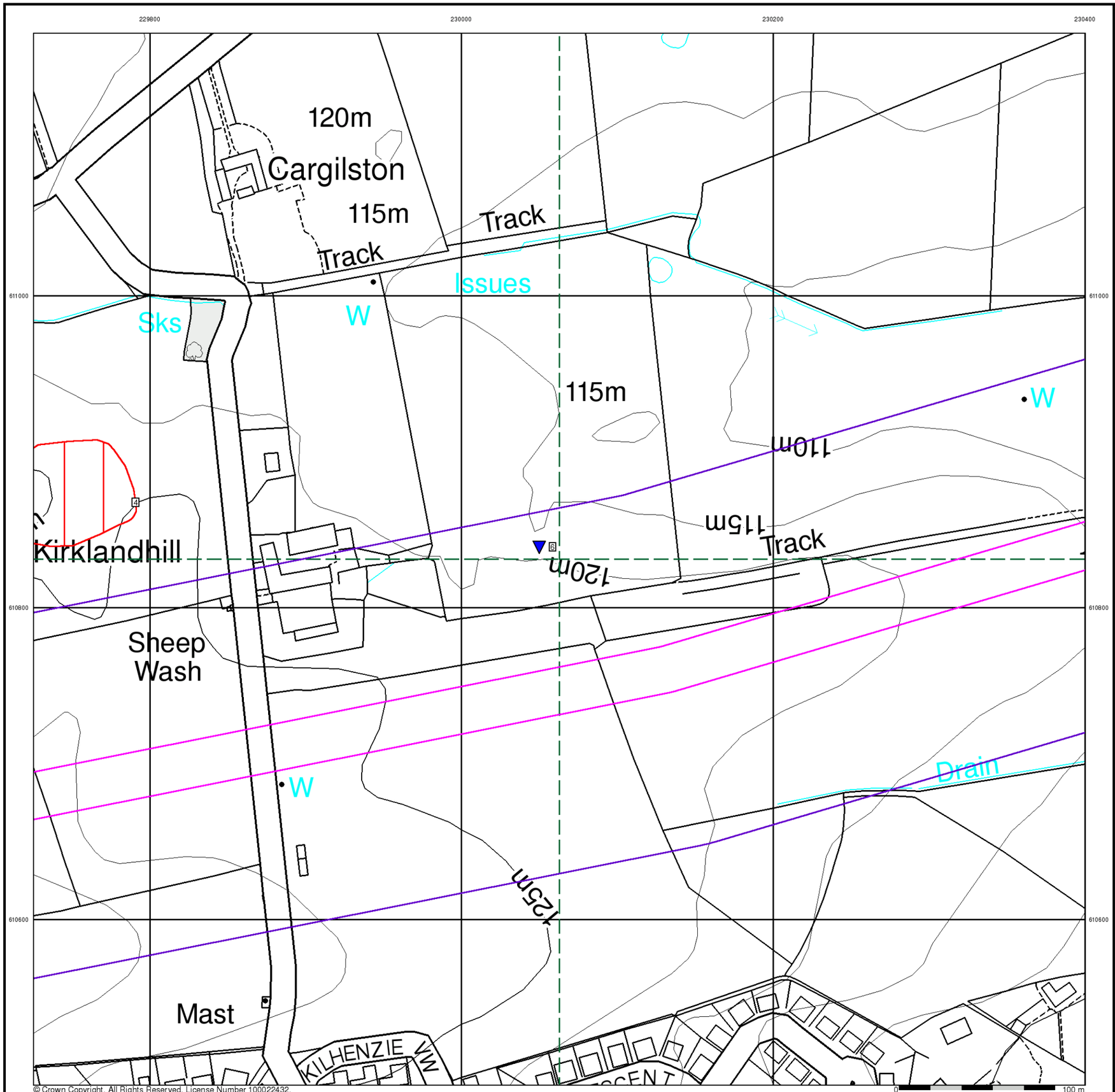


Envirocheck®

General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Map ID
Several of Type at Location

Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)
Contaminated Land Register Entry or Notice
Discharge Consent
Enforcement or Prohibition Notice
Integrated Pollution Control
Integrated Pollution Prevention Control
Local Authority Integrated Pollution Prevention and Control
Local Authority Pollution Prevention and Control
Local Authority Pollution Prevention and Control Enforcement
Pollution Incident to Controlled Waters
Prosecution Relating to Authorised Processes
Prosecution Relating to Controlled Waters
Registered Radioactive Substance
River Network or Water Feature
Substantiated Pollution Incident Register
Water Abstraction
Water Industry Act Referral

Geological

BGS Recorded Mineral Site

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry

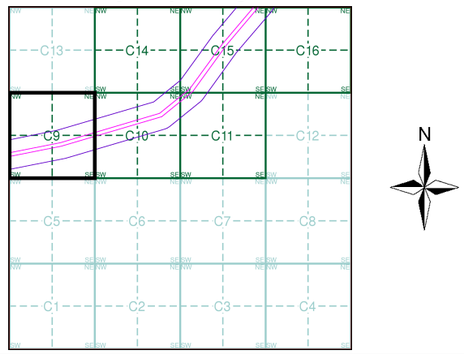
Waste

BGS Recorded Landfill Site (Location)
BGS Recorded Landfill Site
Integrated Pollution Control Registered Waste Site
Local Authority Recorded Landfill Site (Location)
Local Authority Recorded Landfill Site
Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Point Buffered to 100m)
Registered Landfill Site (Point Buffered to 250m)
Registered Waste Transfer Site (Location)
Registered Waste Transfer Site
Registered Waste Treatment or Disposal Site (Location)
Registered Waste Treatment or Disposal Site

Hazardous Substances

COMAH Site
Explosive Site
NIHHS Site
Planning Hazardous Substance Consent
Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment C9



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08

Site Details

Site at, Maybole, South Ayrshire

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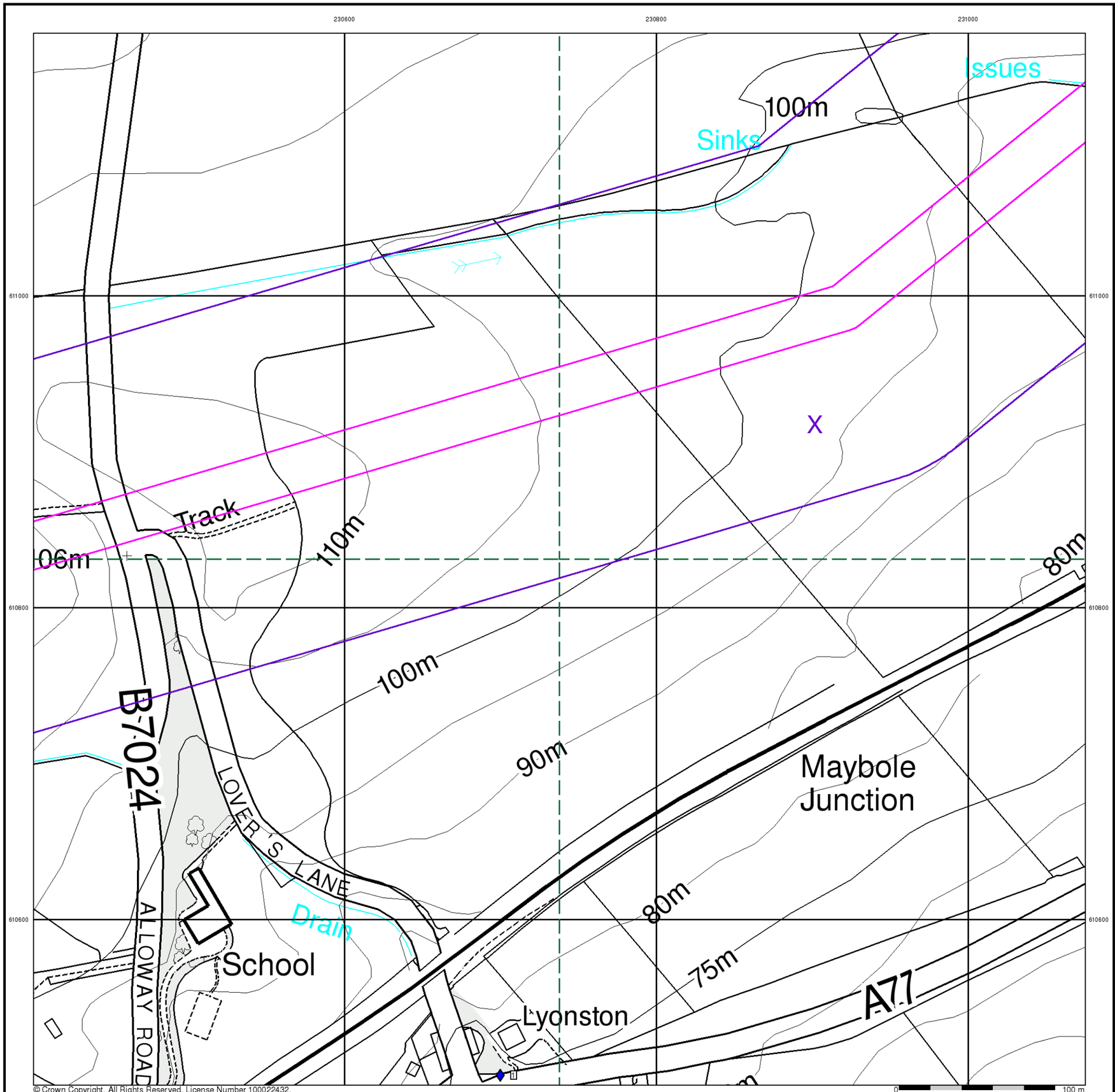


Envirocheck®

General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Map ID
Several of Type at Location

Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)
Contaminated Land Register Entry or Notice
Discharge Consent
Enforcement or Prohibition Notice
Integrated Pollution Control
Integrated Pollution Prevention Control
Local Authority Integrated Pollution Prevention and Control
Local Authority Pollution Prevention and Control
Local Authority Pollution Prevention and Control Enforcement
Pollution Incident to Controlled Waters
Prosecution Relating to Authorised Processes
Prosecution Relating to Controlled Waters
Registered Radioactive Substance
River Network or Water Feature
Substantiated Pollution Incident Register
Water Abstraction
Water Industry Act Referral

Geological

BGS Recorded Mineral Site

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry

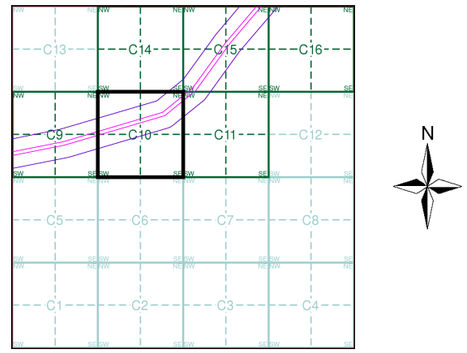
Waste

BGS Recorded Landfill Site (Location)
BGS Recorded Landfill Site
Integrated Pollution Control Registered Waste Site
Local Authority Recorded Landfill Site (Location)
Local Authority Recorded Landfill Site
Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Point Buffered to 100m)
Registered Landfill Site (Point Buffered to 250m)
Registered Waste Transfer Site (Location)
Registered Waste Transfer Site
Registered Waste Treatment or Disposal Site (Location)
Registered Waste Treatment or Disposal Site

Hazardous Substances

COMAH Site
Explosive Site
NIHHS Site
Planning Hazardous Substance Consent
Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment C10



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08

Site Details

Site at, Maybole, South Ayrshire

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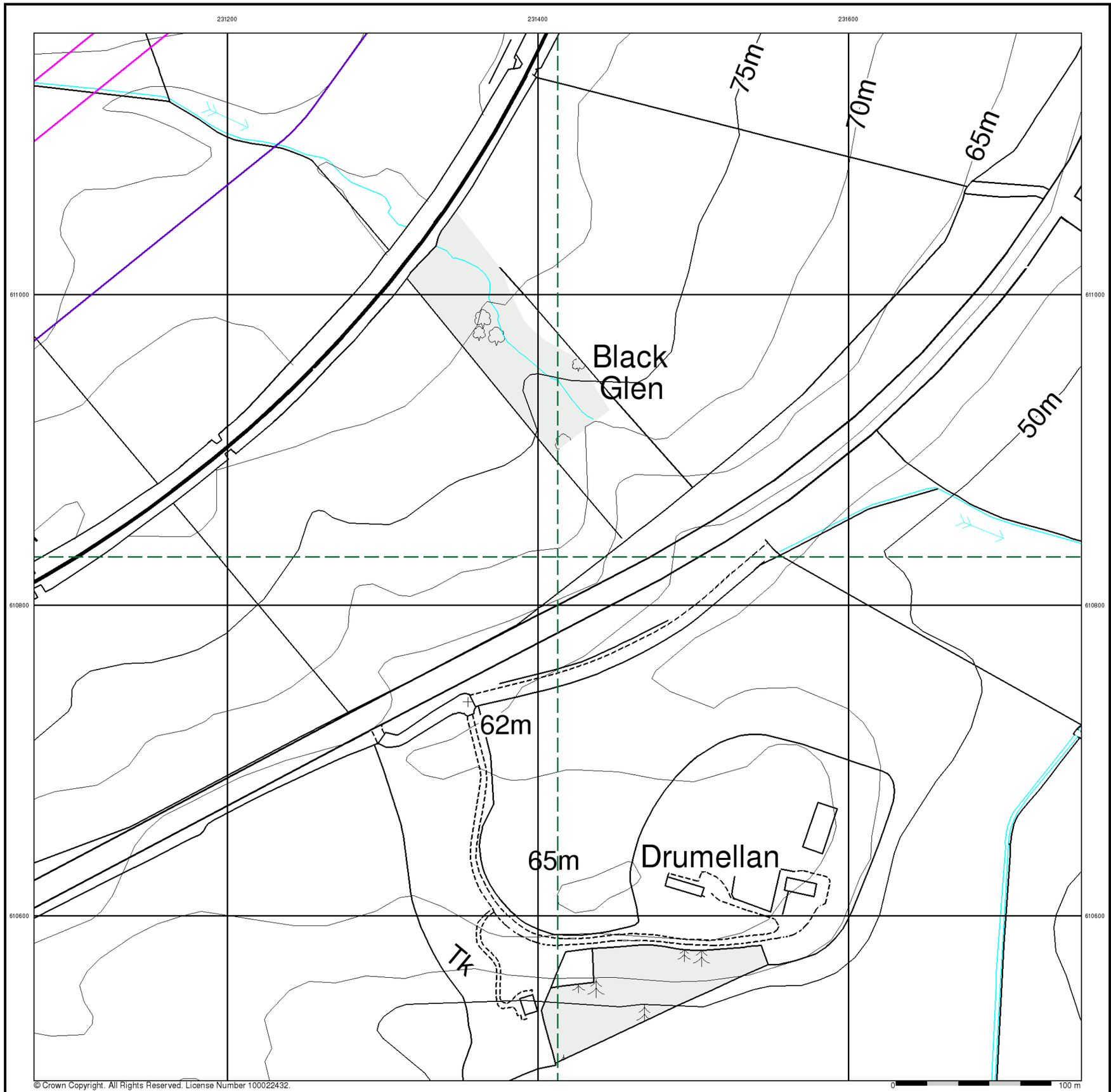


Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

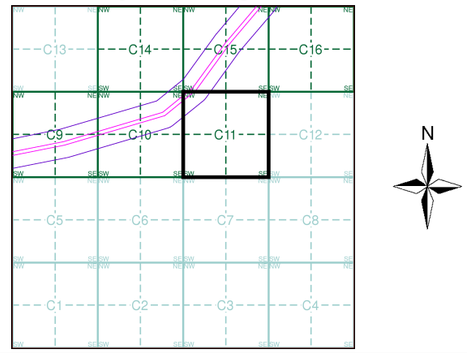
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment C11



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08

Site Details

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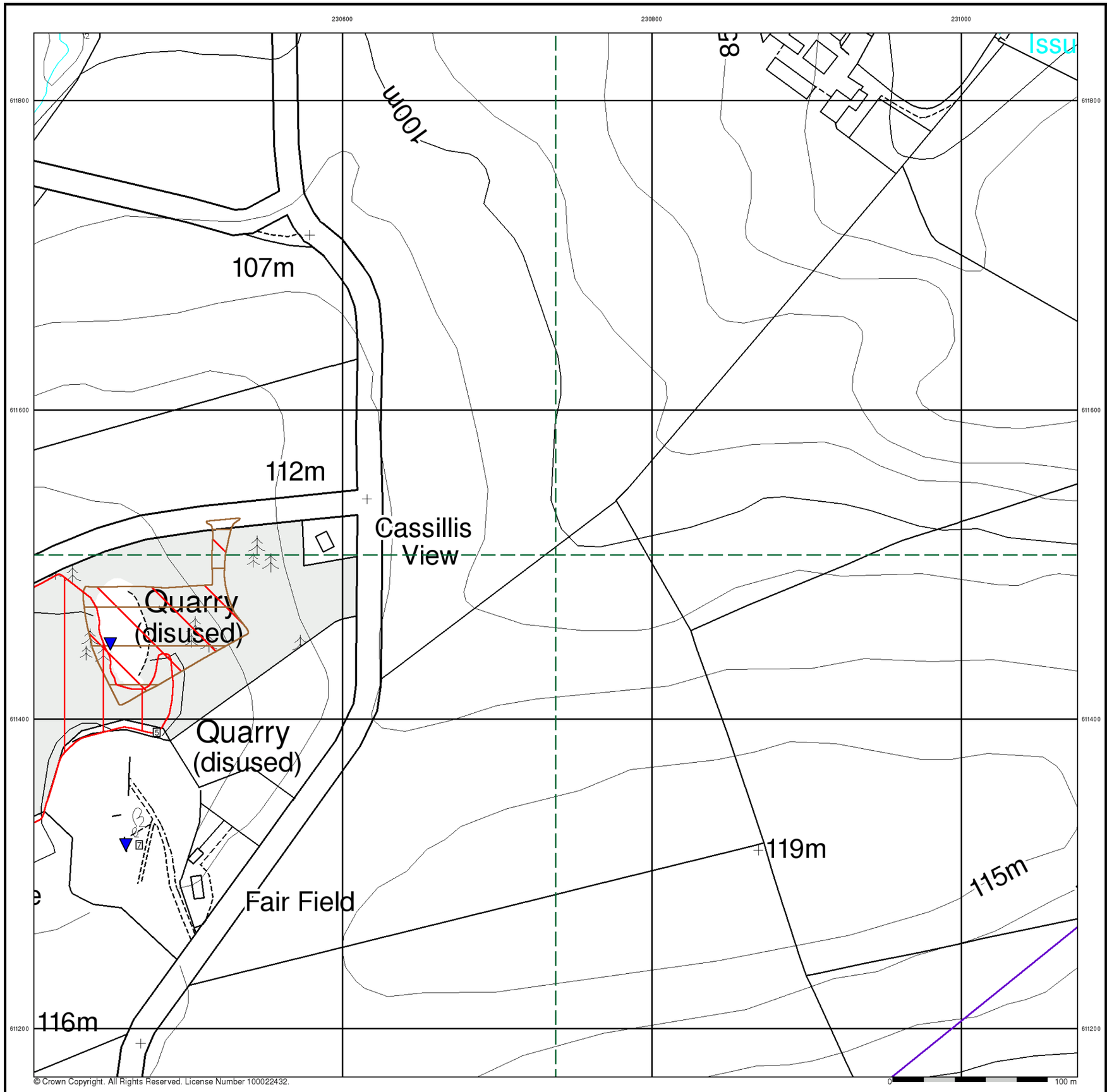


Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

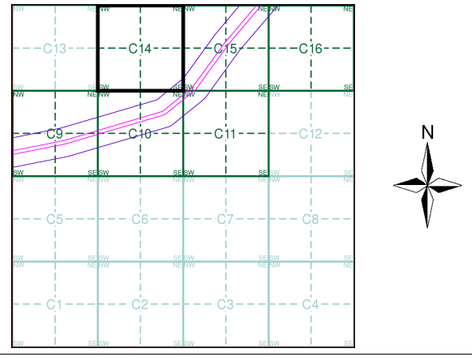
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment C14



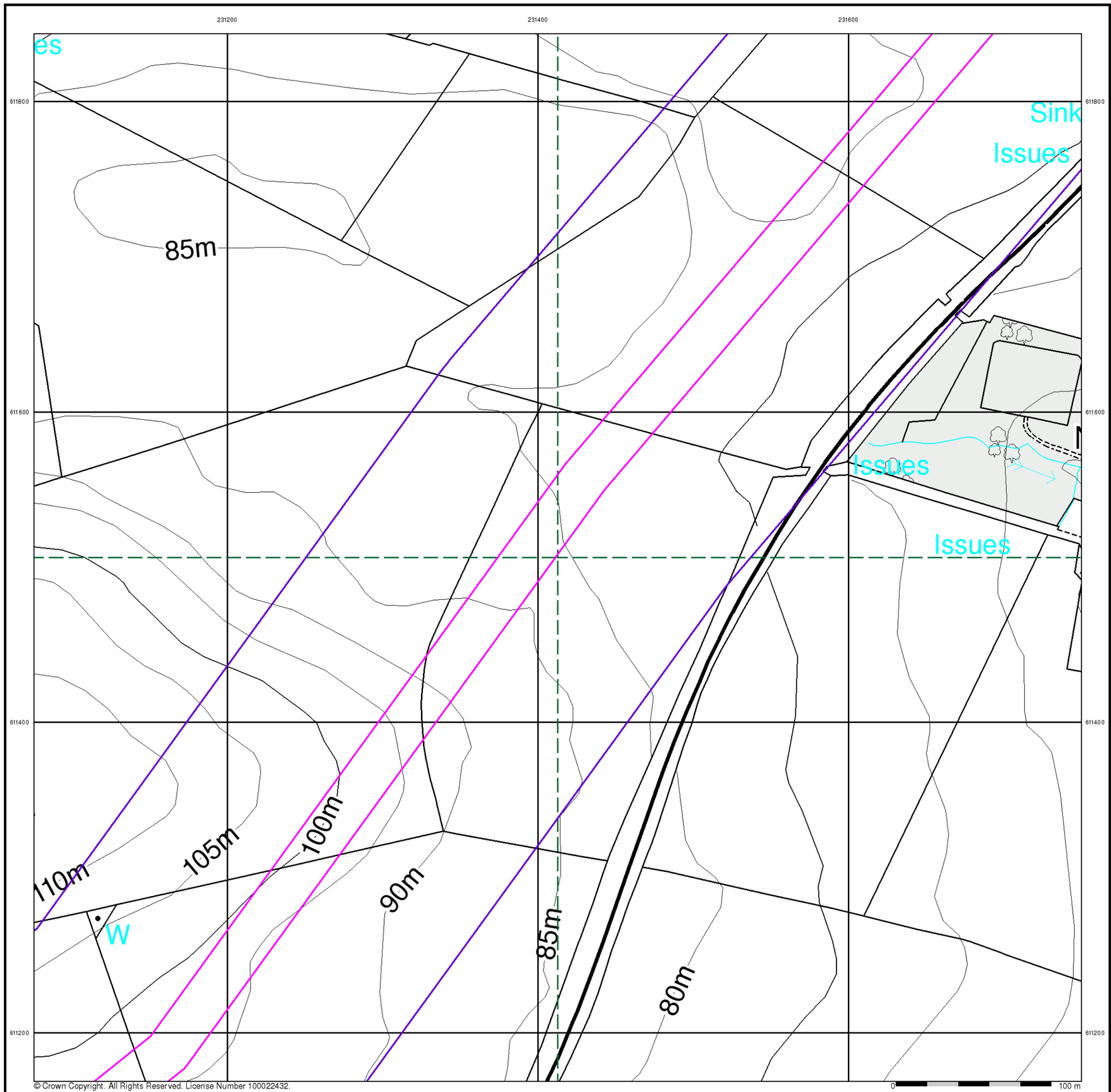
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Map ID
Several of Type at Location

Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)
Contaminated Land Register Entry or Notice
Discharge Consent
Enforcement or Prohibition Notice
Integrated Pollution Control
Integrated Pollution Prevention Control
Local Authority Integrated Pollution Prevention and Control
Local Authority Pollution Prevention and Control
Local Authority Pollution Prevention and Control Enforcement
Pollution Incident to Controlled Waters
Prosecution Relating to Authorised Processes
Prosecution Relating to Controlled Waters
Registered Radioactive Substance
River Network or Water Feature
Substantiated Pollution Incident Register
Water Abstraction
Water Industry Act Referral

Geological

BGS Recorded Mineral Site

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry

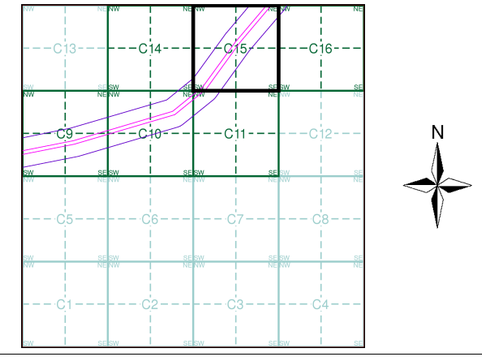
Waste

BGS Recorded Landfill Site (Location)
BGS Recorded Landfill Site
Integrated Pollution Control Registered Waste Site
Local Authority Recorded Landfill Site (Location)
Local Authority Recorded Landfill Site
Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Point Buffered to 100m)
Registered Landfill Site (Point Buffered to 250m)
Registered Waste Transfer Site (Location)
Registered Waste Transfer Site
Registered Waste Treatment or Disposal Site (Location)
Registered Waste Treatment or Disposal Site

Hazardous Substances

COMAH Site
Explosive Site
NIHHS Site
Planning Hazardous Substance Consent
Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment C15



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08

Site Details

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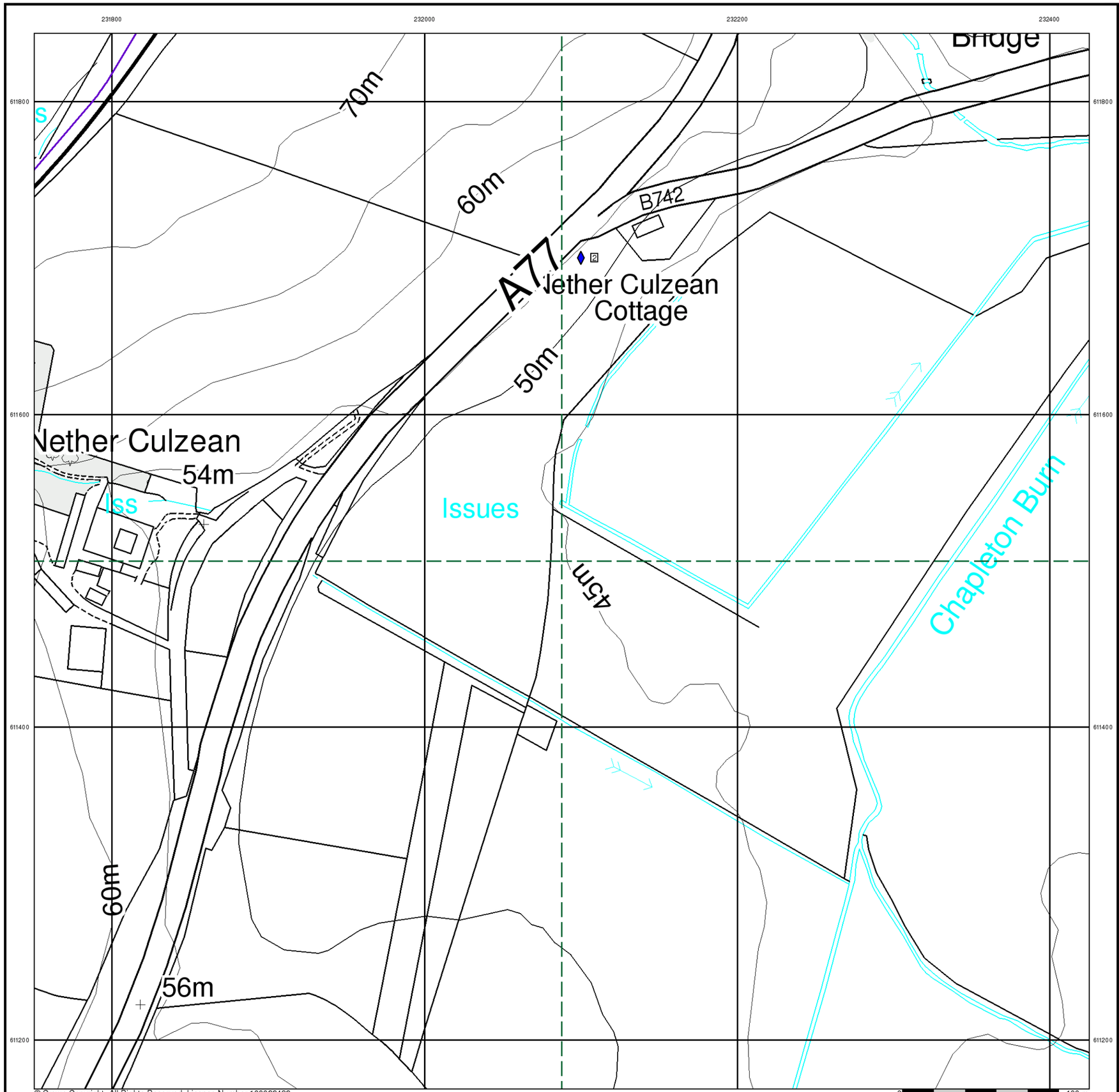
Web: www.envirocheck.co.uk



Envirocheck®

General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Map ID
Several of Type at Location

Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)
Contaminated Land Register Entry or Notice
Discharge Consent
Enforcement or Prohibition Notice
Integrated Pollution Control
Integrated Pollution Prevention Control
Local Authority Integrated Pollution Prevention and Control
Local Authority Pollution Prevention and Control
Local Authority Pollution Prevention and Control Enforcement
Pollution Incident to Controlled Waters
Prosecution Relating to Authorised Processes
Prosecution Relating to Controlled Waters
Registered Radioactive Substance
River Network or Water Feature
Substantiated Pollution Incident Register
Water Abstraction
Water Industry Act Referral

Waste

BGS Recorded Landfill Site (Location)
BGS Recorded Landfill Site
Integrated Pollution Control Registered Waste Site
Local Authority Recorded Landfill Site (Location)
Local Authority Recorded Landfill Site
Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Point Buffered to 100m)
Registered Landfill Site (Point Buffered to 250m)
Registered Waste Transfer Site (Location)
Registered Waste Transfer Site
Registered Waste Treatment or Disposal Site (Location)
Registered Waste Treatment or Disposal Site

Hazardous Substances

COMAH Site
Explosive Site
NIHHS Site
Planning Hazardous Substance Consent
Planning Hazardous Substance Enforcement

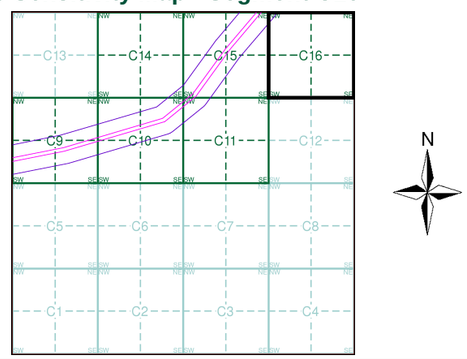
Geological

BGS Recorded Mineral Site

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry

Site Sensitivity Map - Segment C16



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08

Site Details

Site at, Maybole, South Ayrshire

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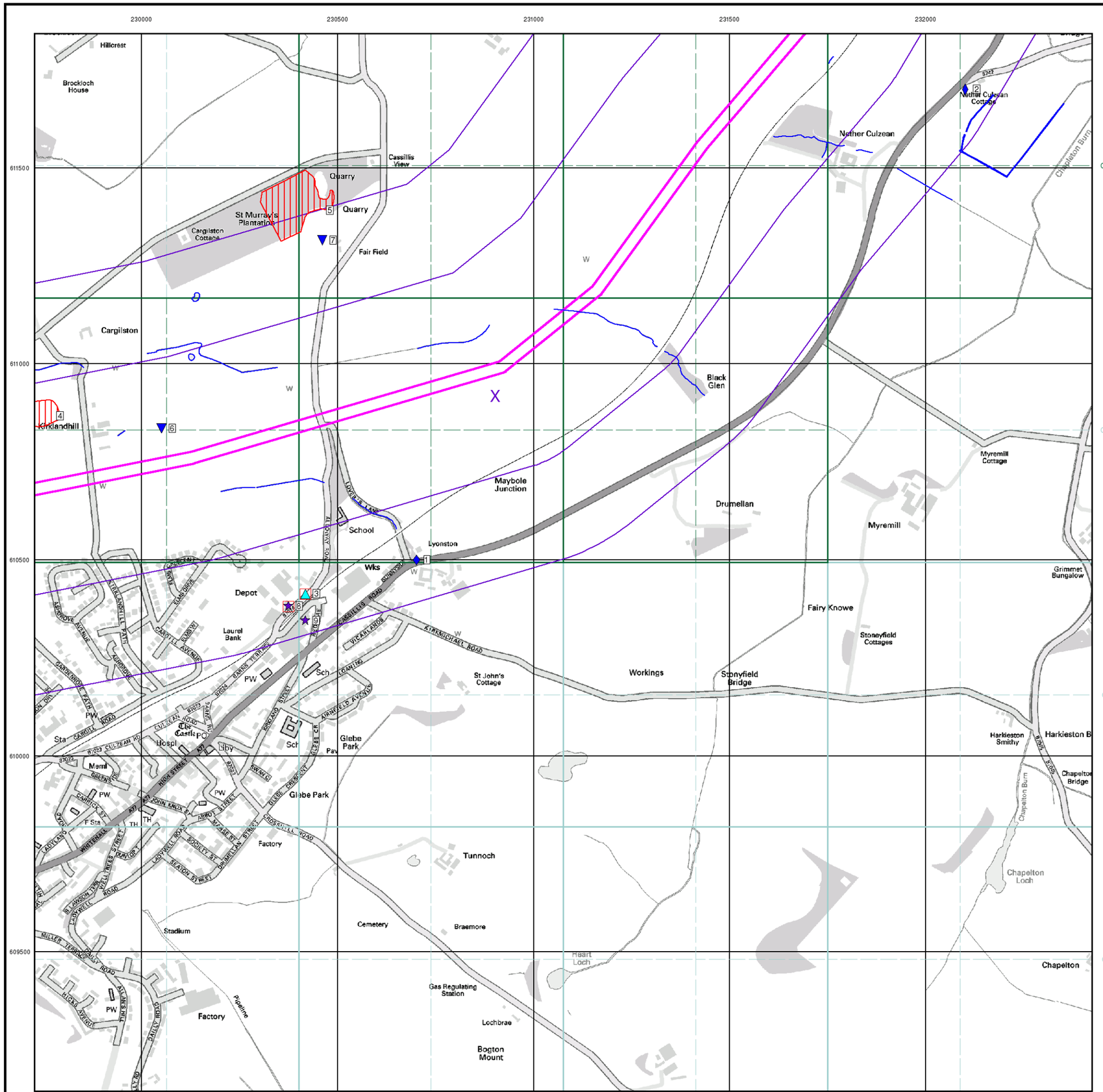
Web: www.envirocheck.co.uk



Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

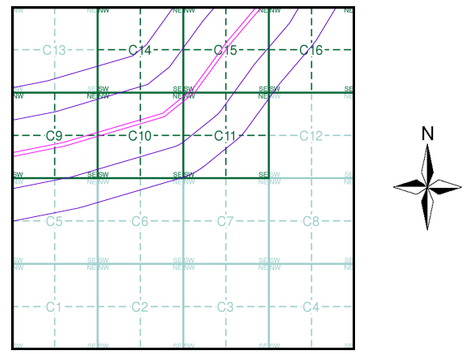
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Slice C



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

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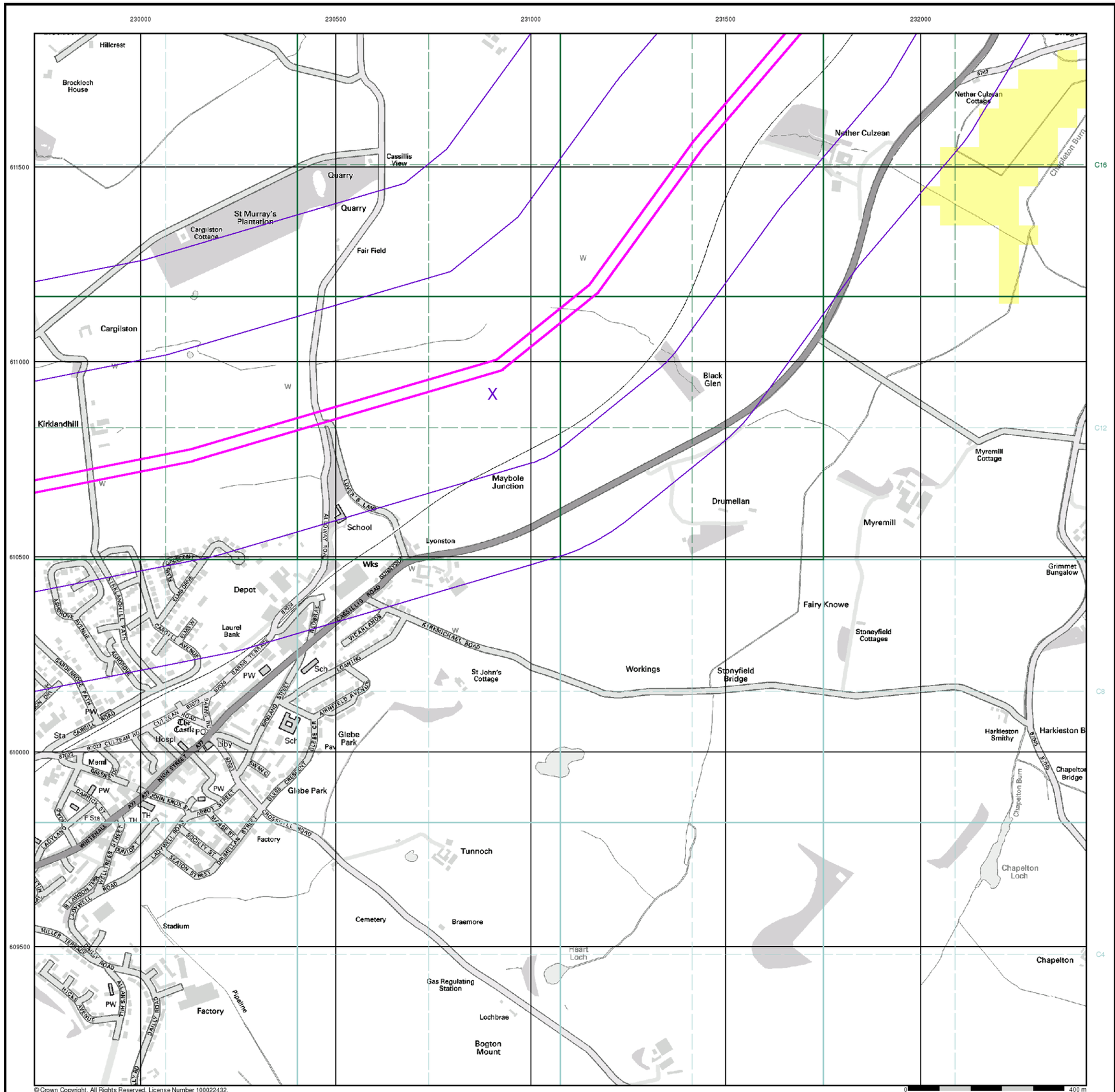


Envirocheck®

General

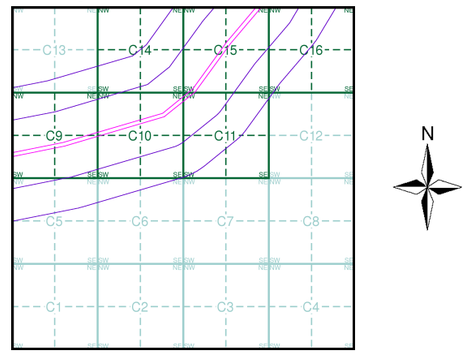
- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Agency and Hydrological (Flood)

- 0 - 1m estimated 100yr flood depth
- 1 - 2m estimated 100yr flood depth
- Over 2m estimated 100yr flood depth

The flooded areas have been generated using a generalised technique and should not, by themselves, be used to infer that specific areas are or are not at risk of inundation. Flood risk at any specific location may be influenced by local factors - not least flood defence - that have not been taken into account.

Flood Map - Slice C



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	230900, 610920
Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

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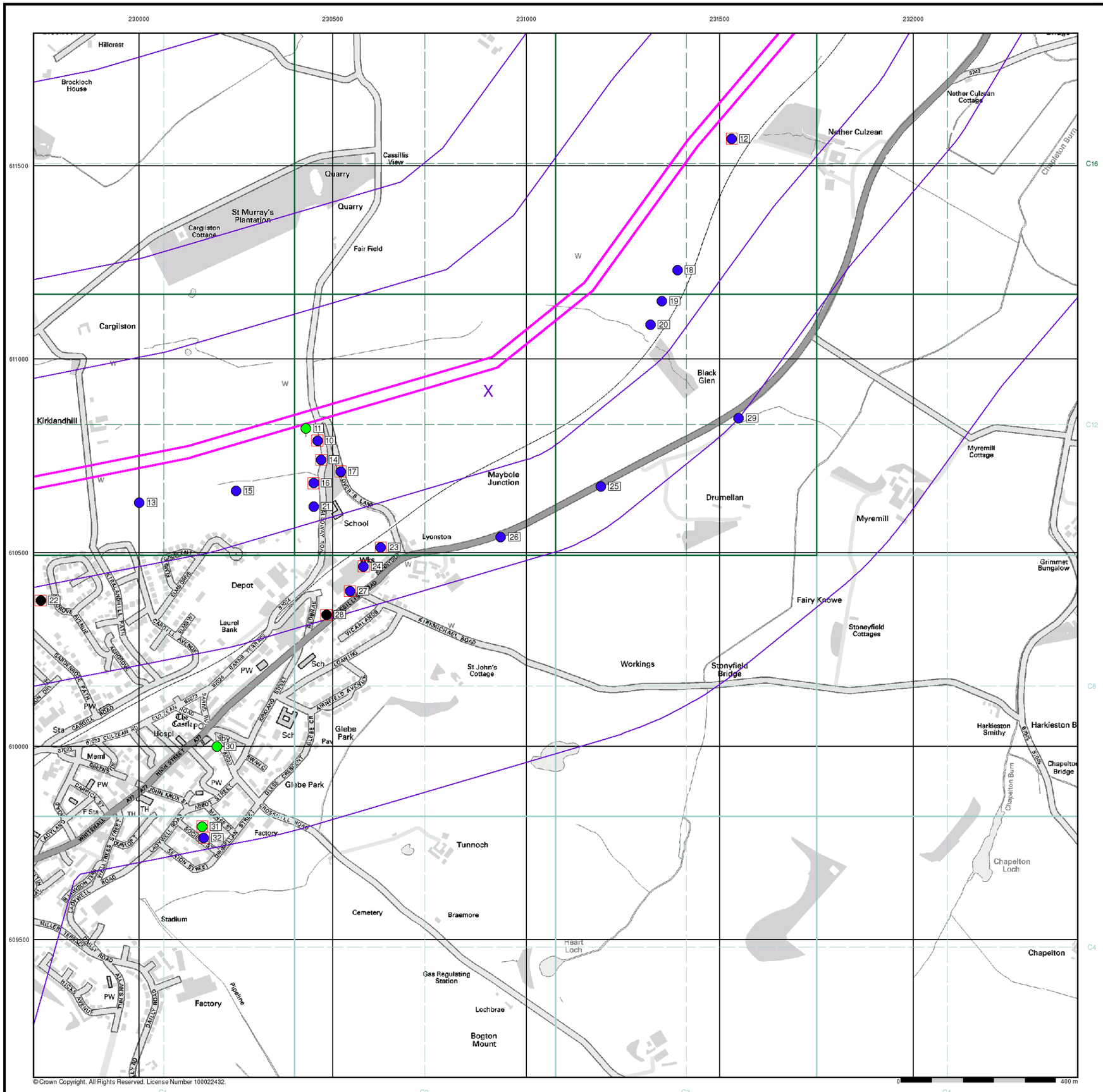


General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Map ID
- Several of Type at Location

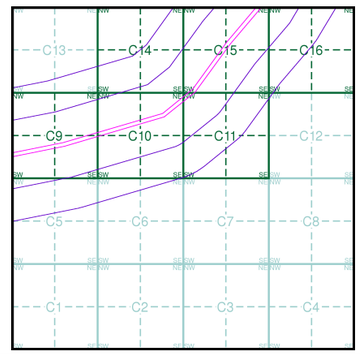
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole datasheet which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice C



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
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Slice:	C
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

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Web: www.envirocheck.co.uk

Geology 1:10,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WGR	Worked Ground (Undivided)	Void	Present Day - Present Day
	MGR	Made Ground (Undivided)	Artificial Deposit	Present Day - Present Day

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Unknown/Unclassified Entry	Flandrian - Flandrian
	HMGD	Hummocky (Moundy) Glacial Deposits	DIAMICTON, CLAY, SAND AND GRAVEL	Pleistocene - Pleistocene
	TILL	Till	Diamicton	Quaternary - Quaternary
	GFDU	Glaciofluvial Deposits	Sand and Gravel	Quaternary - Quaternary
	RTD	River Terrace Deposits	Unknown/Unclassified Entry	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PDNB	North Britain Palaeogene Dyke Suite	Olivine-basalt	Palaeogene - Palaeogene
	PDNB	North Britain Palaeogene Dyke Suite	Quartz-Microgabbro	Palaeogene - Palaeogene
	SWAS	Swanshaw Sandstone Formation	Sandstone	Early Devonian - Ludlow
	ISP	ISLE PORT CONGLOMERATE MEMBER	Conglomerate	Early Devonian - Ludlow
	Fault			

Envirocheck® Geology

Geology 1:10,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:10,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around a site. This mapping may be more up to date than previously published paper maps.

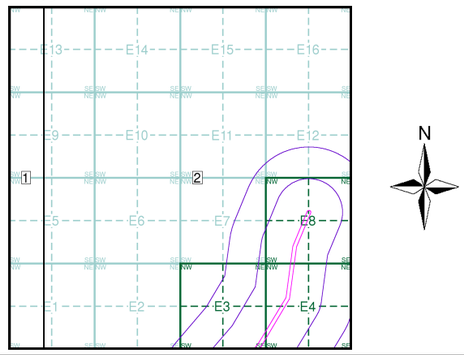
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page.

Please Note: Not all of the layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:10,000 Maps Coverage

Map ID:	1	**Map ID:**	2
Map Name:	NS21SE	**Map Name:**	NS31SW
Map Date:	2008	**Map Date:**	2007
Bedrock Geology:	Available	**Bedrock Geology:**	Available
Superficial Geology:	Available	**Superficial Geology:**	Available
Artificial Geology:	Available	**Artificial Geology:**	Available
Faults:	Available	**Faults:**	Available
Landslip:	Not Available	**Landslip:**	Not Available
Rock Segments:	Not Available	**Rock Segments:**	Not Available

Geology 1:10,000 Maps - Slice E



Order Details

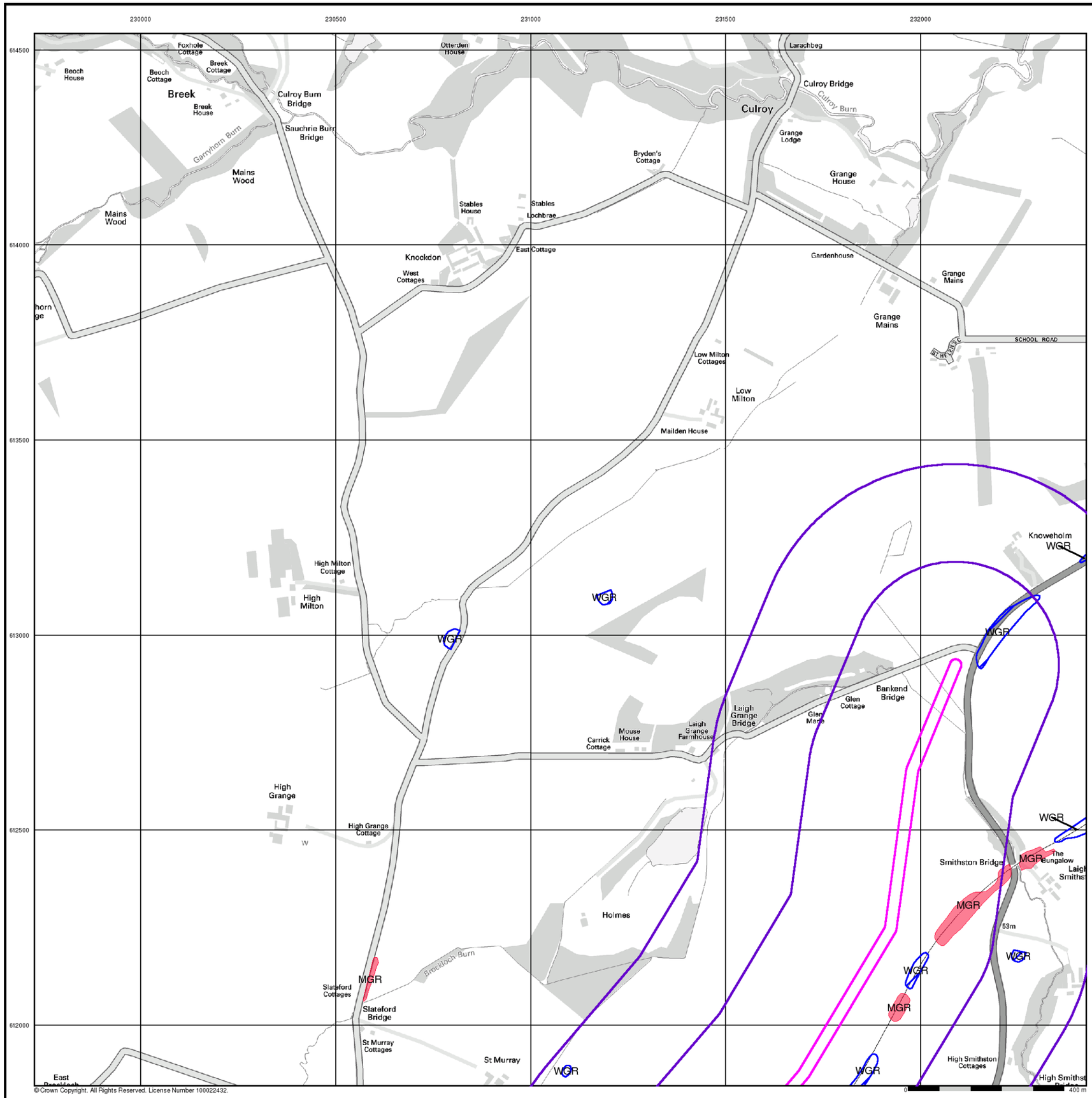
Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Geology

Artificial Ground and Landslip

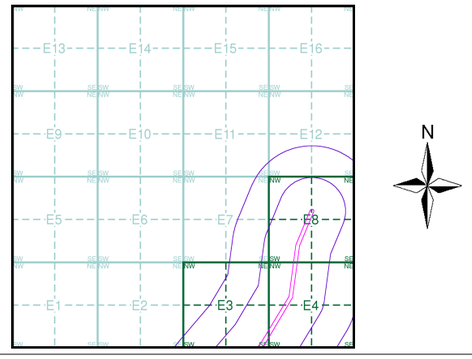
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice E



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
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Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

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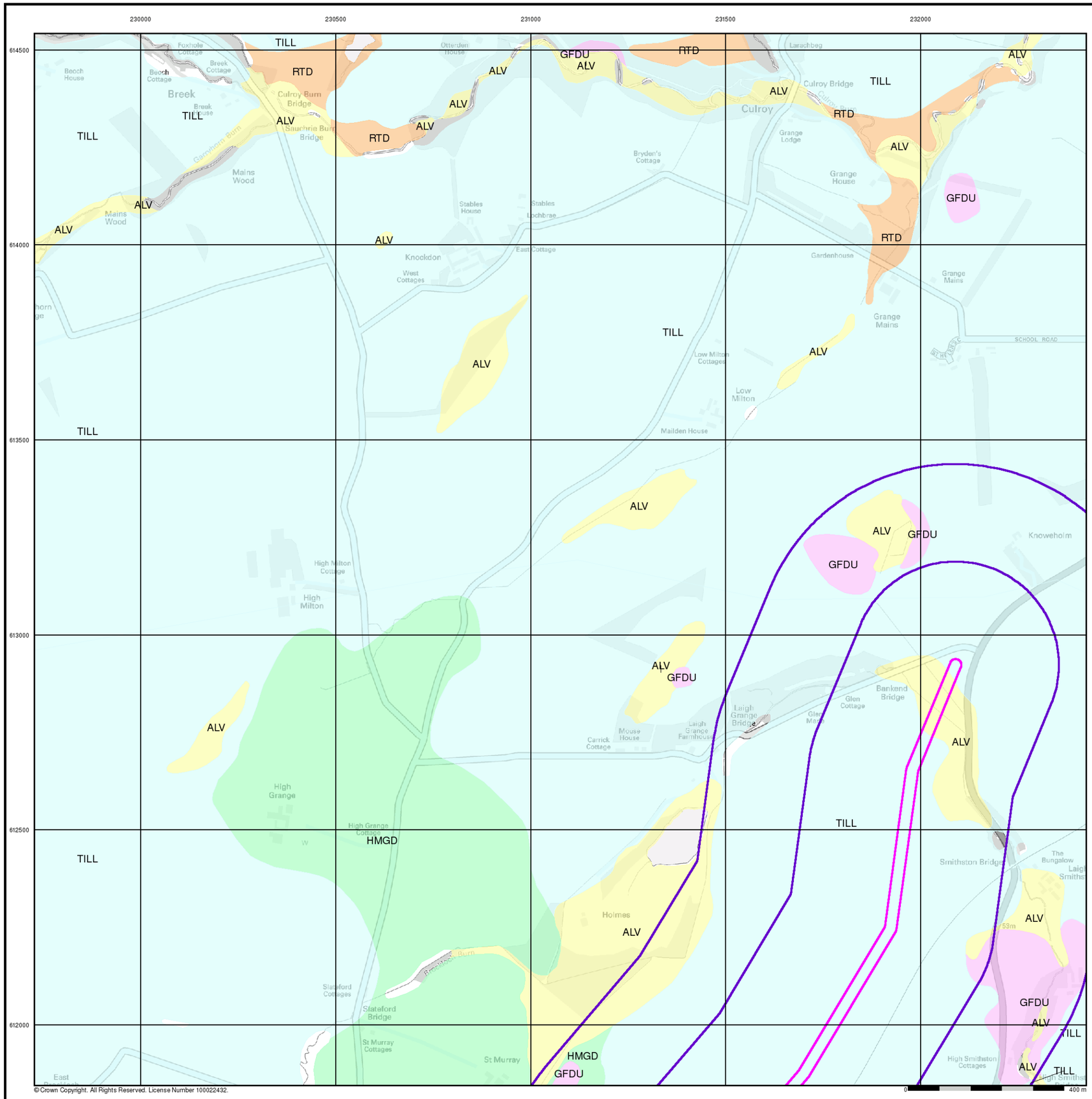


Envirocheck® Geology

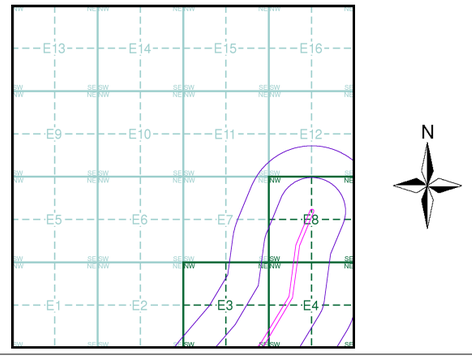
Superficial Geology

BGS 1:10,000 Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice E



Order Details

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Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

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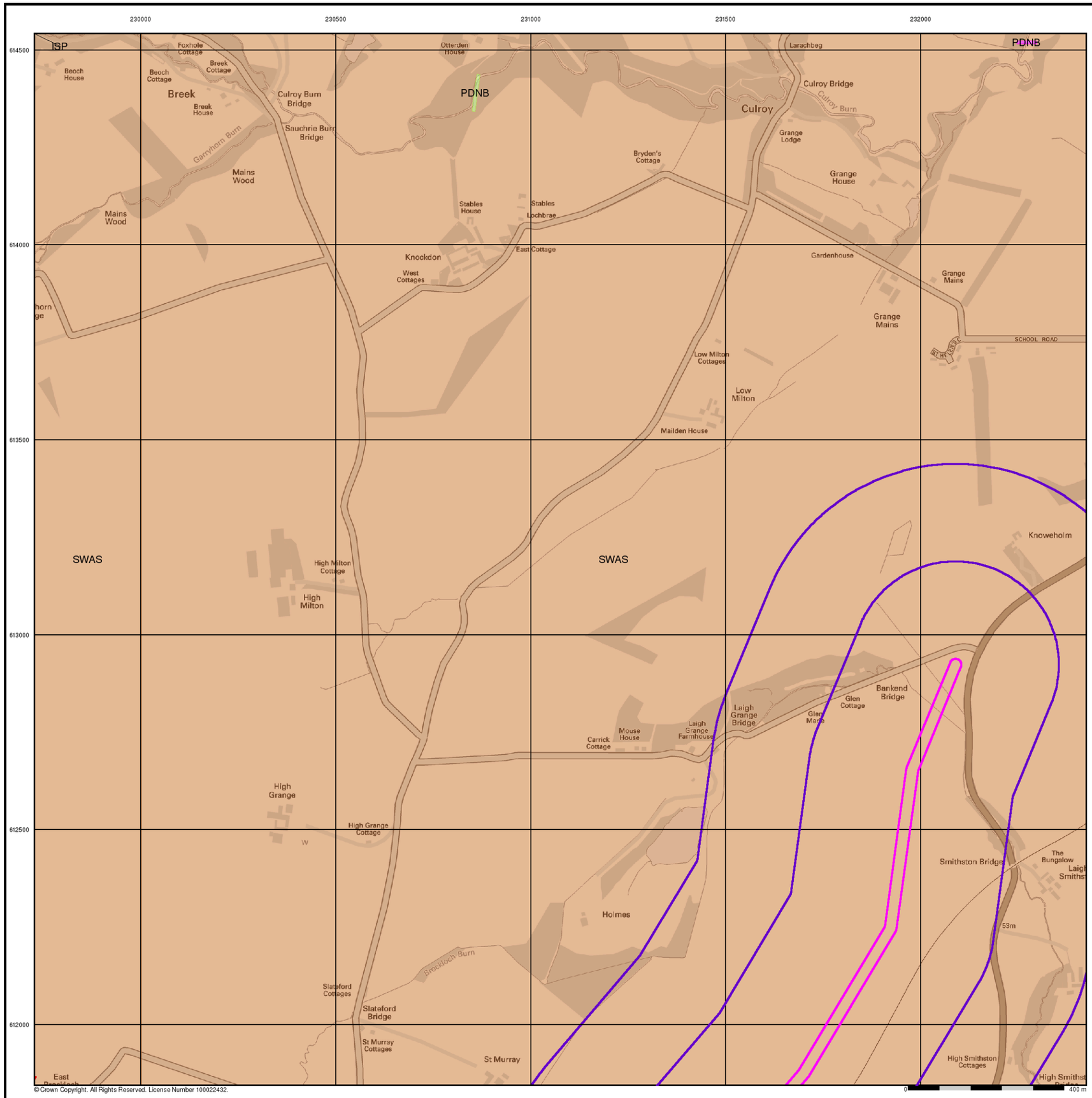
Web: www.envirocheck.co.uk



Envirocheck® Geology

Bedrock and Faults

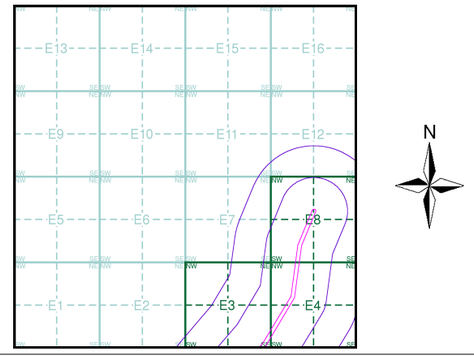
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults and thin beds mapped as lines such as coal seams and mineral veins. These are not restricted by age and could relate to features of any of the 1:10,000 geology datasets.

Bedrock and Faults Map - Slice E



Order Details

Order Number:	40002230_1_1
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National Grid Reference:	231670, 612750
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Site Area (Ha):	16.08
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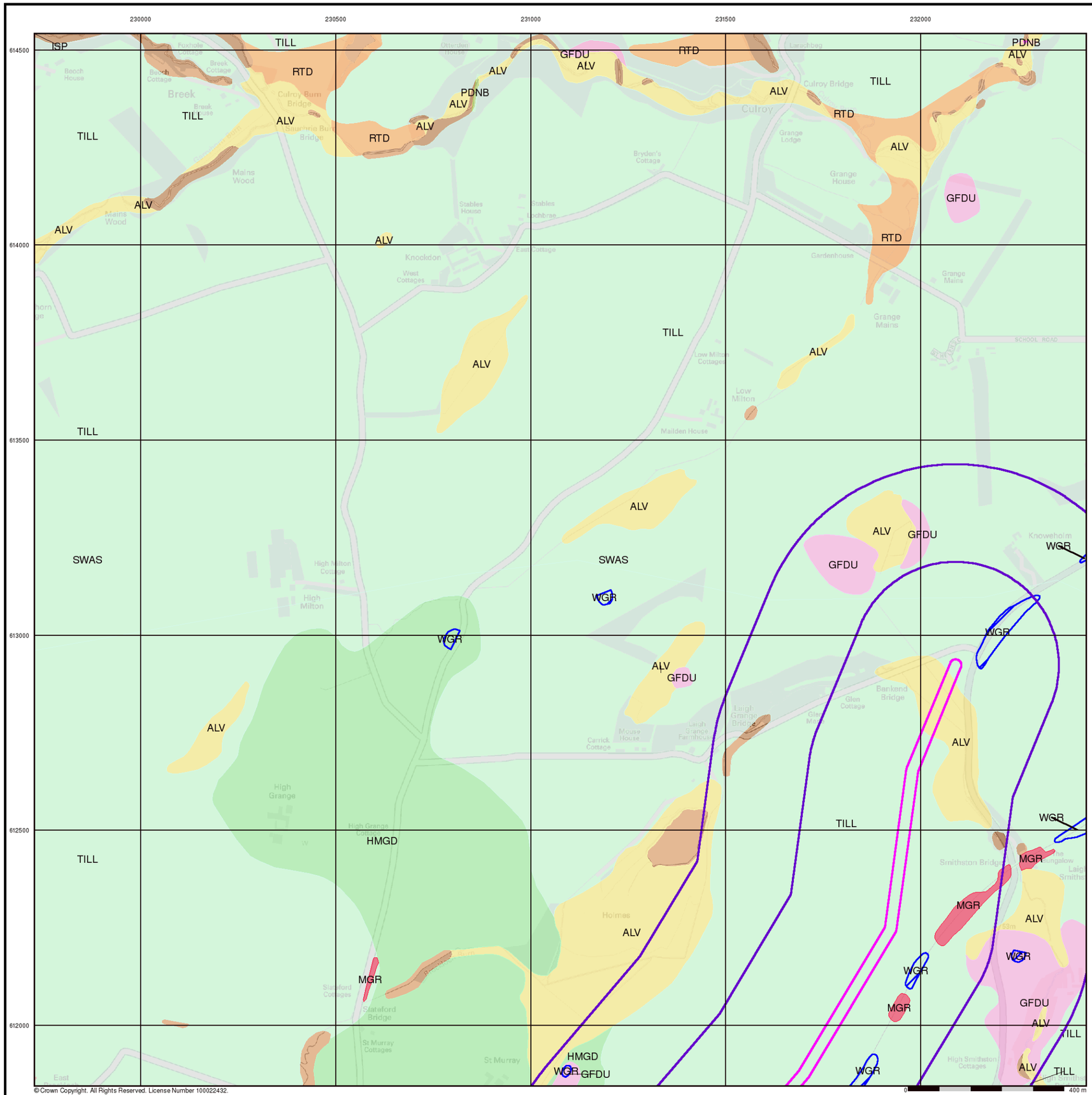


Envirocheck® Geology

Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

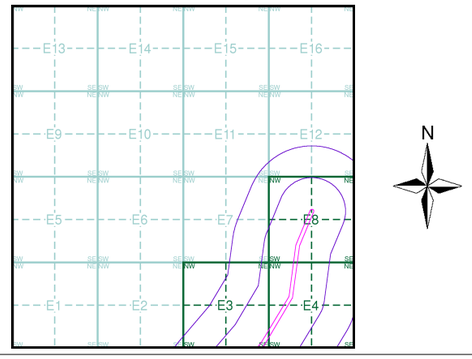
Additional Information

More information on 1:10,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice E



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
40002230_1_1

Customer Reference:
Co25000182

National Grid Reference:
231670, 612750

Slice:
E

Site Area (Ha):
16.08

Search Buffer (m):
500

Site Details:

Site at
Maybole
South Ayrshire

Client Details:

Mr M Ayton
Amey OW Ltd
Precision House
1st floor, off McNeil Drive
Europoint Eurocentral
Motherwell
ML1 4UR

Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
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Hazardous Substances	-
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Industrial Land Use	-
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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Natural England Copyright Notice

Ove Arup Copyright Notice

Peter Brett Associates Copyright Notice

Radon Potential dataset Copyright Notice

Report Version v47.0

Envirocheck®

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Agency & Hydrological				
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 1			2
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls				
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 1	Yes		
Pollution Incidents to Controlled Waters				
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality				
Substantiated Pollution Incident Register				
Water Abstractions				
Water Industry Act Referrals				
Groundwater Vulnerability	pg 1	Yes	n/a	n/a
Source Protection Zones				
River Flood Data (Scotland)				n/a
Waste				
BGS Recorded Landfill Sites				
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
Local Authority Recorded Landfill Sites				
Registered Landfill Sites				
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				
Hazardous Substances				
Control of Major Accident Hazards Sites (COMAH)				
Explosive Sites				
Notification of Installations Handling Hazardous Substances (NIHHS)				
Planning Hazardous Substance Consents				
Planning Hazardous Substance Enforcements				

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Geological				
BGS 1:625,000 Solid Geology	pg 3	Yes	n/a	n/a
BGS Estimated Soil Chemistry	pg 3	Yes	Yes	Yes
BGS Recorded Mineral Sites				
BGS Urban Soil Chemistry				
BGS Urban Soil Chemistry Averages				
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain	pg 7	Yes		n/a
Potential for Collapsible Ground Stability Hazards	pg 7	Yes		n/a
Potential for Compressible Ground Stability Hazards	pg 7	Yes	Yes	n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 7	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards	pg 7	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 8	Yes	Yes	n/a
Radon Potential - Radon Affected Areas			n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a
Industrial Land Use				
Contemporary Trade Directory Entries				
Fuel Station Entries				

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Sensitive Land Use				
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves				
Marine Nature Reserves				
National Nature Reserves				
National Parks				
National Scenic Areas				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones				
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: John Lynch (Builders) Ltd Property Type: Not Given Location: New Dwelling At, Laigh Smithson Farm, MAYBOLE Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 9894 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 20th December 1991 Revocation Date: Not Supplied Discharge Type: Septic tank Discharge Environment: Onto Land Receiving Water: Subsoil **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	E4NE (SE)	451	1	232400 612300
2	**Discharge Consents** Operator: J Lynch Property Type: Not Given Location: Laigh Grange Farm, MAYBOLE, Ayrshire Authority: Scottish Environment Protection Agency, West Region Catchment Area: Not Given Reference: 9666 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 10th April 1991 Revocation Date: Not Supplied Discharge Type: Public Sewage: Septic Tank Discharge Environment: Freshwater Stream/River Receiving Water: Laigh Grange Burn **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	E3SW (SW)	474	1	231250 612100
	Nearest Surface Water Feature	E8NW (NE)	0	-	232008 612928
	Groundwater Vulnerability Geological Classification: Minor or Moderately Permeable Aquifer - Fractured or potentially fractured rocks which do not have a high primary permeability or other formations of variable permeability Soil Classification: Not classified Map Sheet: Map of Scotland Scale: 1:625,000	E7SE (SE)	0	2	231674 612745
	Drift Deposits Drift Deposit: Low permeability drift deposits which include till, head, peat, lacustrine deposits, clay-with-flints and brick earths Map Sheet: Map of Scotland Scale: 1:625,000	E7SE (SE)	0	2	231674 612745
	River Flood Data (Scotland) None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: South Ayrshire Council - Has supplied landfill data		0	6	231674 612745

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lower Old Red Sandstone, including Downtonian	E7SE (SE)	0	4	231674 612745
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E8SW (E)	0	5	232000 612834
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E7SE (SE)	0	5	231674 612745
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E8SW (E)	0	5	232000 612745
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E3SE (S)	0	5	231674 612000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E8NW (NE)	34	5	231885 612909
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E8NW (NE)	63	5	232000 613000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E7NE (N)	104	5	231674 613000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E2SE (SW)	138	5	230958 612000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E4NE (SE)	157	5	232127 612313
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E4SW (SE)	178	5	232000 612000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E4NE (SE)	186	5	232139 612251
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E8NW (NE)	215	5	231999 613134

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E8NW (NE)	215	5	232000 613135
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E8NW (NE)	257	5	231835 613102
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E8NW (NE)	266	5	231913 613179
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E7SE (NW)	330	5	231650 612769
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E3SW (SW)	340	5	231266 612000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E4SE (SE)	342	5	232191 612000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E7SE (SW)	391	5	231501 612631
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E12SW (NE)	395	5	232000 613323
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E3SW (SW)	397	5	231288 612065
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E3SW (SW)	403	5	231127 611918
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E4SE (SE)	436	5	232286 611932
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 120 - 180 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E2SE (SW)	492	5	231000 611883

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sed Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: >180mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	E3SW (SW)	493	5	231116 612000
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	4	231674 612745
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E8NW (NE)	0	4	231882 612902
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	4	231674 612745
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E4NE (SE)	182	4	232258 612398
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	4	231674 612745
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	E8NW (NE)	0	4	231882 612902
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E4NW (SE)	100	4	232086 612302
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	E4NE (SE)	182	4	232258 612398
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	0	4	231992 612809
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	4	231674 612745
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	42	4	232029 612606
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E8SE (E)	145	4	232130 612588
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E8NW (NE)	0	4	231882 612902
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	4	231674 612745

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E2NE (W)	0	4	230988 612506
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E4NE (SE)	182	4	232258 612398
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	4	231674 612745
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E2NE (W)	0	4	230988 612506
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E8NW (NE)	0	4	231882 612902
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E4NE (SE)	182	4	232258 612398
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E4NE (SE)	188	4	232115 612182
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	4	231674 612745
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	4	231674 612745

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices South Ayrshire Council	June 2012	Annual Rolling Update
Discharge Consents Scottish Environment Protection Agency - West Region	May 1998	Variable
Enforcement and Prohibition Notices Scottish Environment Protection Agency - West Region	January 2012	Not Applicable
Integrated Pollution Controls Scottish Environment Protection Agency - Head Office Scottish Environment Protection Agency - West Region	February 1998 March 2002	Variable Variable
Local Authority Pollution Prevention and Controls Scottish Environment Protection Agency - West Region	March 2002	Variable
Nearest Surface Water Feature Ordnance Survey	December 2011	Quarterly
Prosecutions Relating to Authorised Processes Scottish Environment Protection Agency - West Region	March 2007	Not Applicable
Prosecutions Relating to Controlled Waters Scottish Environment Protection Agency - West Region	March 2007	Not Applicable
Registered Radioactive Substances Scottish Environment Protection Agency - West Region Scottish Environment Protection Agency - Head Office	April 1996 January 1998	Variable Variable
River Quality Scottish Environment Protection Agency - Head Office	December 1990	Not Applicable
Water Abstractions Scottish Executive - Agriculture, Environment and Fisheries Department	December 1997	Not Applicable
Water Industry Act Referrals Scottish Environment Protection Agency - West Region	April 1996	Variable
Groundwater Vulnerability Scottish Environment Protection Agency - Head Office	December 1995	Not Applicable
Drift Deposits Scottish Environment Protection Agency - Head Office	December 1995	Not Applicable
River Flood Data (Scotland) Centre for Ecology and Hydrology	September 1999	Not Applicable
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Integrated Pollution Control Registered Waste Sites Scottish Environment Protection Agency - Head Office Scottish Environment Protection Agency - West Region	January 1998 January 1998	Variable Variable
Local Authority Landfill Coverage South Ayrshire Council	May 2000	Not Applicable
Local Authority Recorded Landfill Sites South Ayrshire Council	May 2000	Not Applicable
Registered Landfill Sites Scottish Environment Protection Agency - West Region	December 2005	Not Applicable
Registered Waste Transfer Sites Scottish Environment Protection Agency - West Region	December 2005	Not Applicable
Registered Waste Treatment or Disposal Sites Scottish Environment Protection Agency - West Region	December 2005	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	May 2012	Bi-Annually
Explosive Sites Health and Safety Executive	June 2012	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements South Ayrshire Council - Planning Department	February 2012	Annual Rolling Update
Planning Hazardous Substance Consents South Ayrshire Council - Planning Department	February 2012	Annual Rolling Update
Geological	**Version**	**Update Cycle**
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	August 2011	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	**Version**	**Update Cycle**
Contemporary Trade Directory Entries Thomson Directories	May 2012	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2012	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt South Ayrshire Council	April 2012	As notified
Areas of Unadopted Green Belt South Ayrshire Council	April 2012	As notified
Environmentally Sensitive Areas Scottish Executive - Geographic Information Service	April 2012	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Marine Nature Reserves Scottish Natural Heritage	February 2012	Bi-Annually
National Nature Reserves Scottish Natural Heritage	May 2012	Bi-Annually
Nitrate Vulnerable Zones Scottish Executive - Geographic Information Service	April 2011	Annually
Ramsar Sites Scottish Natural Heritage	May 2012	Bi-Annually
Sites of Special Scientific Interest Scottish Natural Heritage	May 2012	Bi-Annually
Special Areas of Conservation Scottish Natural Heritage	May 2012	Bi-Annually
Special Protection Areas Scottish Natural Heritage	May 2012	Bi-Annually

Data Suppliers

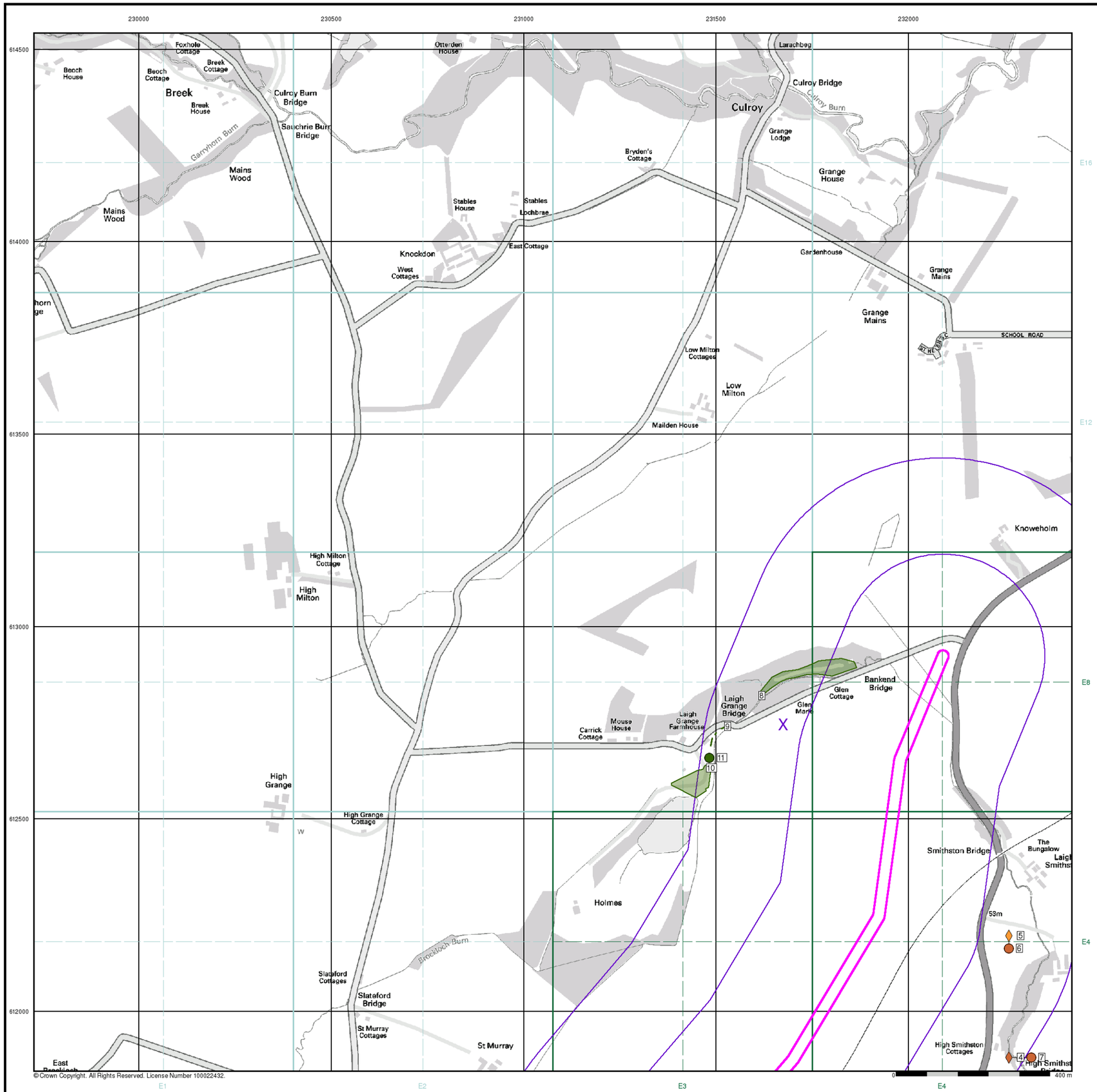
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Useful Contacts

Contact	Name and Address	Contact Details
1	**Scottish Environment Protection Agency - West Region** 5 Redwood Crescent, Peel Park, East Kilbride, South Lanarkshire, G74 5PP	Telephone: 01355 574200 Fax: 01355 574688
2	**Scottish Environment Protection Agency - Head Office** Erskine Court, The Castle Business Park, Stirling, Stirlingshire, FK9 4TR	Telephone: 01786 457700 Fax: 01786 446885
3	**Centre for Ecology and Hydrology** Maclean Building, Crowmarsh Gifford, WALLINGFORD, Oxfordshire, OX10 8BB	Telephone: 01491 838800 Fax: 01491 692424
4	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
5	**Landmark Information Group Limited** 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
6	**South Ayrshire Council** Council Buildings, Wellington Square, Ayr, Ayrshire, KA7 1DR	Telephone: 01292 612000 Fax: 01292 612143 Website: www.south-ayrshire.gov.uk
-	**Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	**Landmark Information Group Limited** The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.



Historical Land Use Information (1:10,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts	◆		
Disturbed Ground	◆		
General Quarrying	◆		
Heap, unknown constituents	◆		
Mineral Railway	◆		
Mining and Quarrying General	◆		
Mining of Coal & Lignite	◆		
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	◆		

Historical Land Use

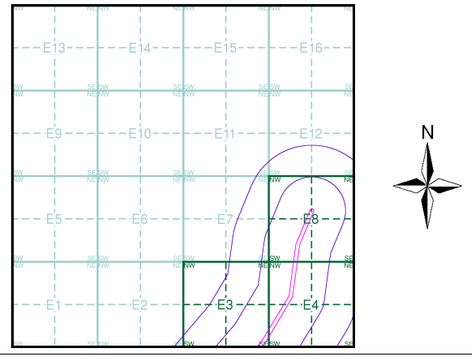
	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	●		
Potentially Infilled Land (Water)	●		
Former Marsh	✠		

Mining Data

Potential Mining Area

BGS Recorded Mineral Site

Mining and Ground Stability - Slice E



Order Details

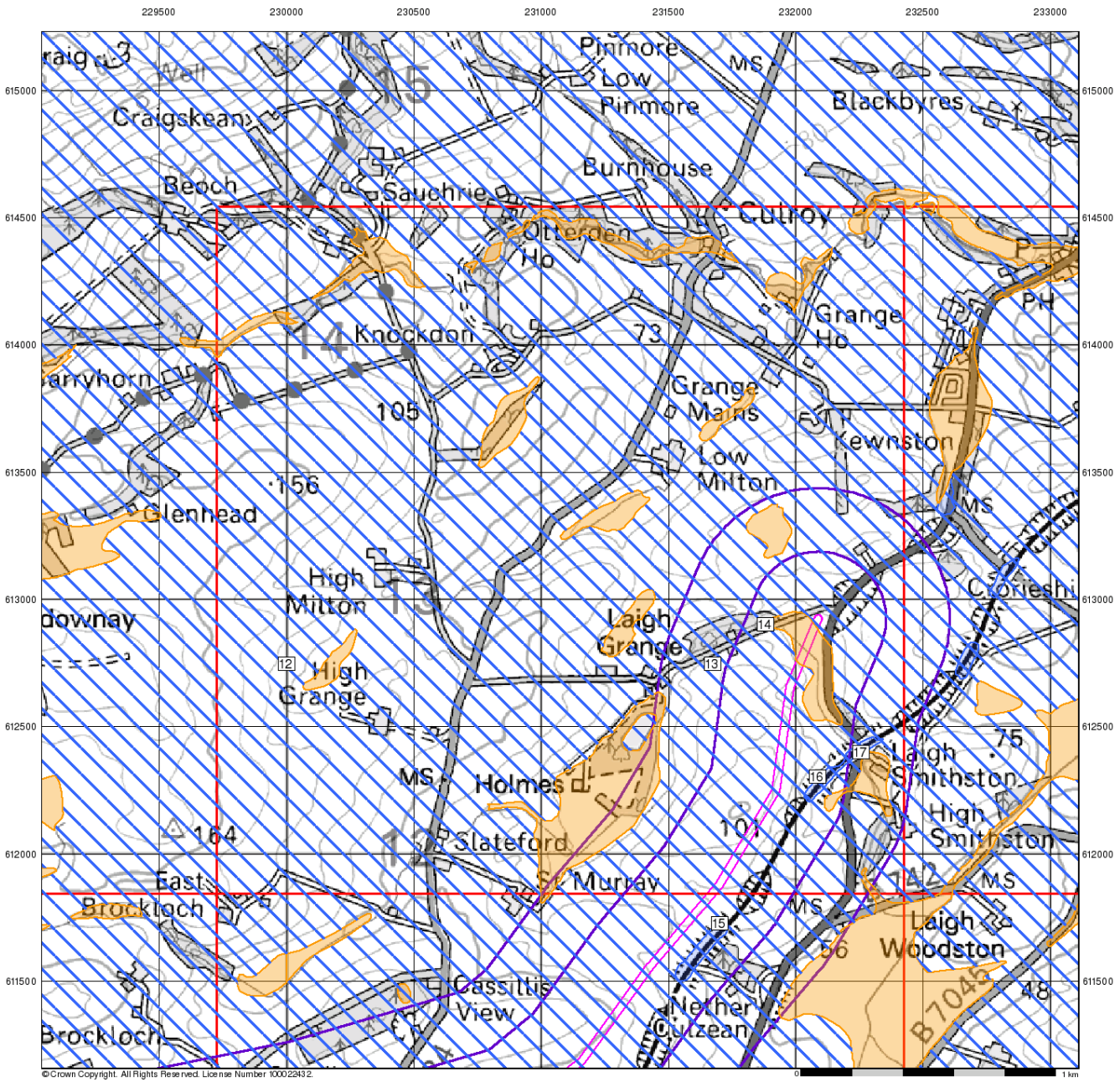
Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Potential for Compressible Ground Stability Hazards

High | Low | Moderate | Very Low

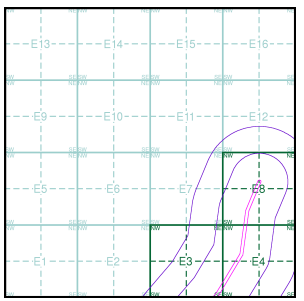
Potential for Collapsible Ground Stability Hazards

High | Low | Moderate | Very Low

Brine Pumping and Salt Mining

	Point	Polygon
Brine Pumping Related Feature	▲	▨
Salt Mining Related Feature	▲	▨

Mining and Ground Stability - Slice E



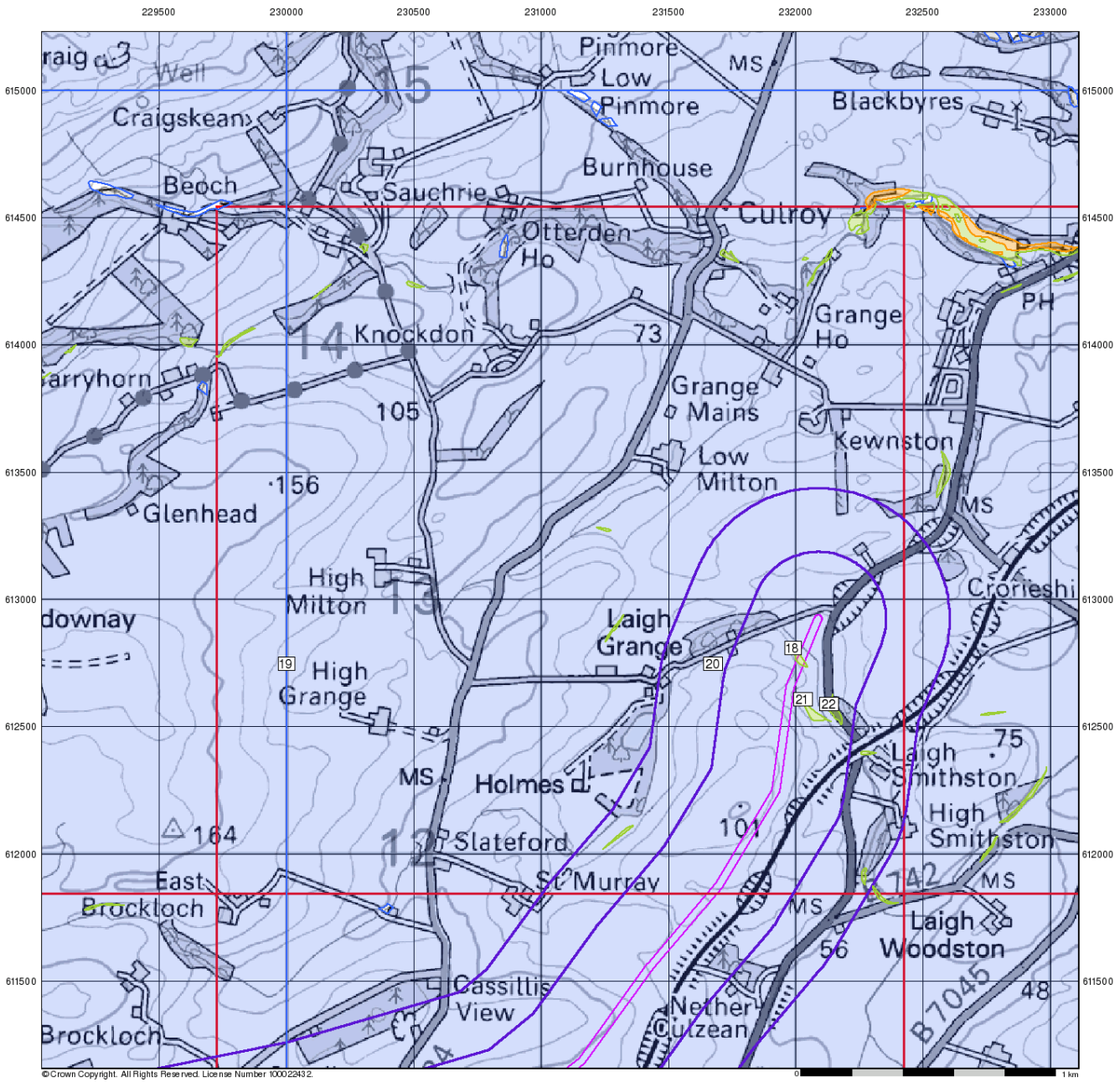
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

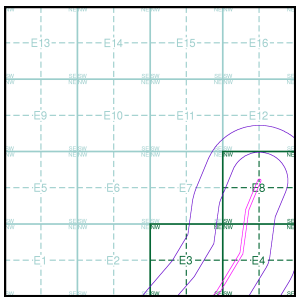
Potential for Landslide Ground Stability Hazards

High | Low
Moderate | Very Low

Potential for Ground Dissolution Stability Hazards

High | Low
Moderate | Very Low

Mining and Ground Stability - Slice E



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark Information Group
Tel: 0844 844 9952
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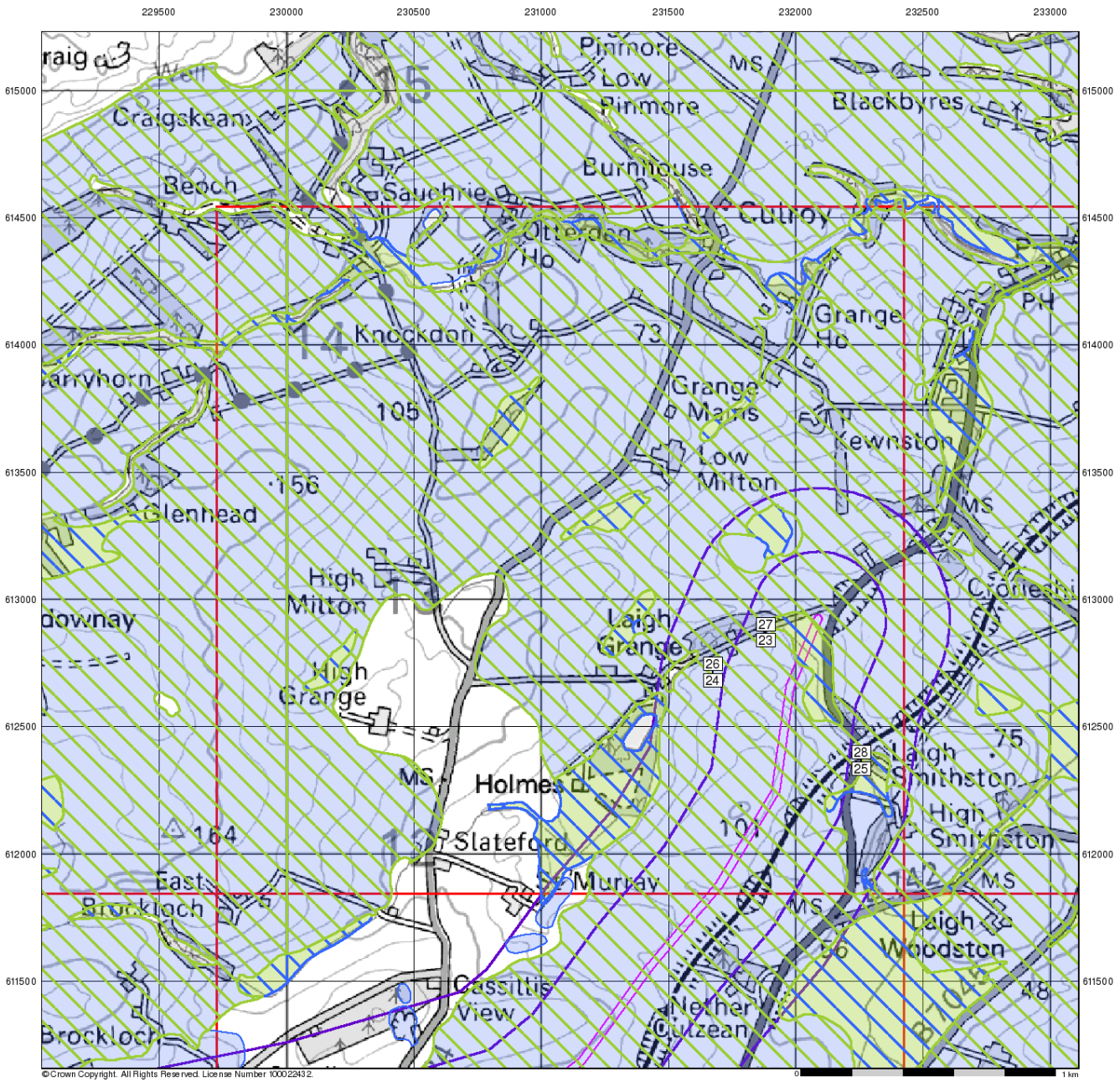


Envirocheck® Mining

Ground Stability Data (1:50,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

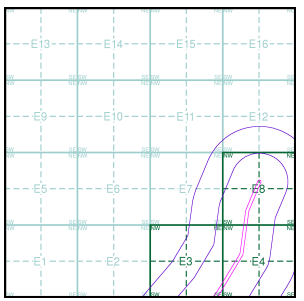
Potential for Running Sand Ground Stability Hazards

High | Low
Moderate | Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

High | Low
Moderate | Very Low

Mining and Ground Stability - Slice E



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Envirocheck® Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:
40002230_1_1

Customer Reference:
Co25000182

National Grid Reference:
231670, 612750

Slice:
E

Site Area (Ha):
16.08

Search Buffer (m):
500

Site Details:

Site at
Maybole
South Ayrshire

Client Details:

Mr M Ayton
Amey OW Ltd
Precision House
1st floor, off McNeil Drive
Europoint Eurocentral
Motherwell
ML1 4UR

Contents

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	2
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	3
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	4
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
Motion Map Data (1:2,500)	-
The Motion Map Data (1:2,500) section contains data which is plotted to indicate long-term stability trends from analysis of satellite radar data.	
Historical Map List	6
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
Data Currency	7
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Report Version v47.0

Envirocheck® Mining

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m
Mining and Natural Cavities Data				
BGS Recorded Mineral Sites				
Coal Mining Affected Areas			n/a	n/a
Man Made Mining Cavities				
Mining Instability			n/a	n/a
Natural Cavities				
Non Coal Mining Areas of Great Britain	pg 1	Yes		n/a
Potential Mining Areas				
Historical Land Use Information (1:2,500)				
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)	pg 2		3	n/a
Subterranean Features (100m)				n/a
Historical Land Use Information (1:10,000)				
Air Shafts				
Disturbed Ground				
General Quarrying	pg 3			1
Heap, unknown constituents				
Mineral Railway				
Mining & quarrying general				
Mining of coal & lignite				
Quarrying of sand & clay, operation of sand & gravel pits	pg 3			1
Former Marshes				
Potentially Infilled Land (Non-Water)	pg 3			2
Potentially Infilled Land (Water)	pg 3		1	3

Envirocheck® Mining

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m
Ground Stability Data (1:50,000)				
Brine Compensation Area			n/a	n/a
Brine Pumping Related Features				
Brine Subsidence Solution Area				
Potential for Collapsible Ground Stability Hazards	pg 4	Yes	Yes	n/a
Potential for Compressible Ground Stability Hazards	pg 4	Yes	Yes	n/a
Potential for Ground Dissolution Stability Hazards				n/a
Potential for Landslide Ground Stability Hazards	pg 4	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards	pg 4	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 5	Yes	Yes	n/a
Salt Mining Related Features				
Subsidence Insurance Claims				n/a
Subsidence Investigations				n/a
Motion Map Data (1:2,500)				
Motion Map (100m)				n/a

Report Version v47.0

Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	1	231674 612745

Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Extractive Industries or Potential Excavations from 1950-1980** Use: Railway Cutting First Map Published Date: 1970 Last Map Published Date: 1971	E4NW (SE)	88	-	232027 612205
2	**Extractive Industries or Potential Excavations from 1950-1980** Use: Railway Embankment First Map Published Date: 1970 Last Map Published Date: N/A	E4SW (SE)	95	-	231960 612091
3	**Extractive Industries or Potential Excavations from 1950-1980** Use: Railway Embankment First Map Published Date: 1971 Last Map Published Date: N/A	E4NE (SE)	99	-	232096 612310

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**General Quarrying** Use: Not Supplied Date of Mapping: 1860	E4SE (SE)	463	-	232260 611881
5	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1910 - 1958	E4NE (SE)	326	-	232260 612196
6	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	E4NE (SE)	326	-	232260 612196
7	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1978	E4SE (SE)	463	-	232260 611881
8	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	E7SE (NW)	181	-	231618 612821
9	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	E7SE (W)	442	-	231530 612740
10	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1860	E7SE (SW)	468	-	231488 612640
11	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	E7SE (SW)	478	-	231482 612659

Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Brine Compensation Area The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
12	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E5SW (W)	0	1	230001 612745
13	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	1	231674 612745
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E8NW (NE)	0	1	231882 612902
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E4NE (SE)	182	1	232258 612398
14	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	E8NW (NE)	0	1	231882 612902
15	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(S)	68	1	231704 611727
16	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E4NW (SE)	100	1	232086 612302
17	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	E4NE (SE)	182	1	232258 612398
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	1	231674 612745
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E5SW (W)	0	1	230001 612745
	Potential for Ground Dissolution Stability Hazards No Hazard				
18	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	0	1	231992 612809
19	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E5SW (W)	0	1	230001 612745
20	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	1	231674 612745
21	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E8SW (E)	42	1	232029 612606
22	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E8SE (E)	145	1	232130 612588
23	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E8NW (NE)	0	1	231882 612902
24	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	1	231674 612745
25	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E4NE (SE)	182	1	232258 612398

Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	230001 611493
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E2NE (W)	0	1	230988 612506
26	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	E7SE (SE)	0	1	231674 612745
27	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E8NW (NE)	0	1	231882 612902
28	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	E4NE (SE)	182	1	232258 612398
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	230001 611493
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E2NE (W)	0	1	230988 612506
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	E4NE (SE)	188	1	232115 612182

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	NS3111	1970
Ordnance Survey Plan	NS3111	1970
Ordnance Survey Plan	NS3112	1970
Ordnance Survey Plan	NS3112	1970
Ordnance Survey Plan	NS3112	1970
Ordnance Survey Plan	NS3113	1970
Ordnance Survey Plan	NS3211	1970
Ordnance Survey Plan	NS3212	1971
Ordnance Survey Plan	NS3212	1971
Ordnance Survey Plan	NS3213	1971

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Ayrshire	038_00	1859
Ayrshire	039_00	1860
Ayrshire	038_SE	1896
Ayrshire	039_SW	1897
Ayrshire	039_SW	1910
Ayrshire	038_SE	1911
Ordnance Survey Plan	NS21SE	1957
Ordnance Survey Plan	NS31SW	1958
1:10,000	**Mapsheet**	**Published Date**
Ordnance Survey Plan	NS31SW	1978
Ordnance Survey Plan	NS21SE	1987

Data Currency

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Mining Report Service	August 2011	As notified
Man Made Mining Cavities Peter Brett Associates	November 2011	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Peter Brett Associates	November 2011	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Historical Land Use Information (1:2,500)	**Version**	**Update Cycle**
Subterranean Features Landmark Information Group Limited	January 2012	Bi-Annually
Ground Stability Data (1:50,000)	**Version**	**Update Cycle**
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Subsidence Insurance Claims SP Property Services	May 2011	Quarterly
Subsidence Investigations CET Group	May 2011	Quarterly

Motion Map Data (1:2,500)	Version	Update Cycle
Motion Map		
Nigel Press Associates - Hampshire	February 2011	As notified
Nigel Press Associates - Cambridge	January 2011	As notified
Nigel Press Associates - Ipswich	January 2011	As notified
Nigel Press Associates - Norwich	January 2011	As notified
Nigel Press Associates - Peterborough	January 2011	As notified
Nigel Press Associates - Barnstaple	July 2010	As notified
Nigel Press Associates - Derbyshire	July 2010	As notified
Nigel Press Associates - Humberside	July 2010	As notified
Nigel Press Associates - Kent	July 2010	As notified
Nigel Press Associates - Lincolnshire	July 2010	As notified
Nigel Press Associates - Nottinghamshire	July 2010	As notified
Nigel Press Associates - Birmingham	May 2009	As notified
Nigel Press Associates - Bournemouth	May 2009	As notified
Nigel Press Associates - Brighton	May 2009	As notified
Nigel Press Associates - Bristol	May 2009	As notified
Nigel Press Associates - Cardiff	May 2009	As notified
Nigel Press Associates - Central London	May 2009	As notified
Nigel Press Associates - Cheltenahm	May 2009	As notified
Nigel Press Associates - Coventry	May 2009	As notified
Nigel Press Associates - Crawley	May 2009	As notified
Nigel Press Associates - Edinburgh	May 2009	As notified
Nigel Press Associates - Exeter	May 2009	As notified
Nigel Press Associates - Glasgow	May 2009	As notified
Nigel Press Associates - Isle of Wight	May 2009	As notified
Nigel Press Associates - Leeds	May 2009	As notified
Nigel Press Associates - Leicester	May 2009	As notified
Nigel Press Associates - Liverpool	May 2009	As notified
Nigel Press Associates - Manchester	May 2009	As notified
Nigel Press Associates - Milton Keynes	May 2009	As notified
Nigel Press Associates - Newcastle	May 2009	As notified
Nigel Press Associates - Northwich	May 2009	As notified
Nigel Press Associates - Nottingham	May 2009	As notified
Nigel Press Associates - Oxford	May 2009	As notified
Nigel Press Associates - Plymouth	May 2009	As notified
Nigel Press Associates - Portsmouth	May 2009	As notified
Nigel Press Associates - Preston	May 2009	As notified
Nigel Press Associates - Reading	May 2009	As notified
Nigel Press Associates - Sheffield	May 2009	As notified
Nigel Press Associates - Stoke	May 2009	As notified
Nigel Press Associates - Swindon	May 2009	As notified
Nigel Press Associates - Tonbridge	May 2009	As notified
Nigel Press Associates - North London	November 2008	As notified
Nigel Press Associates - Head Office	September 2008	As notified

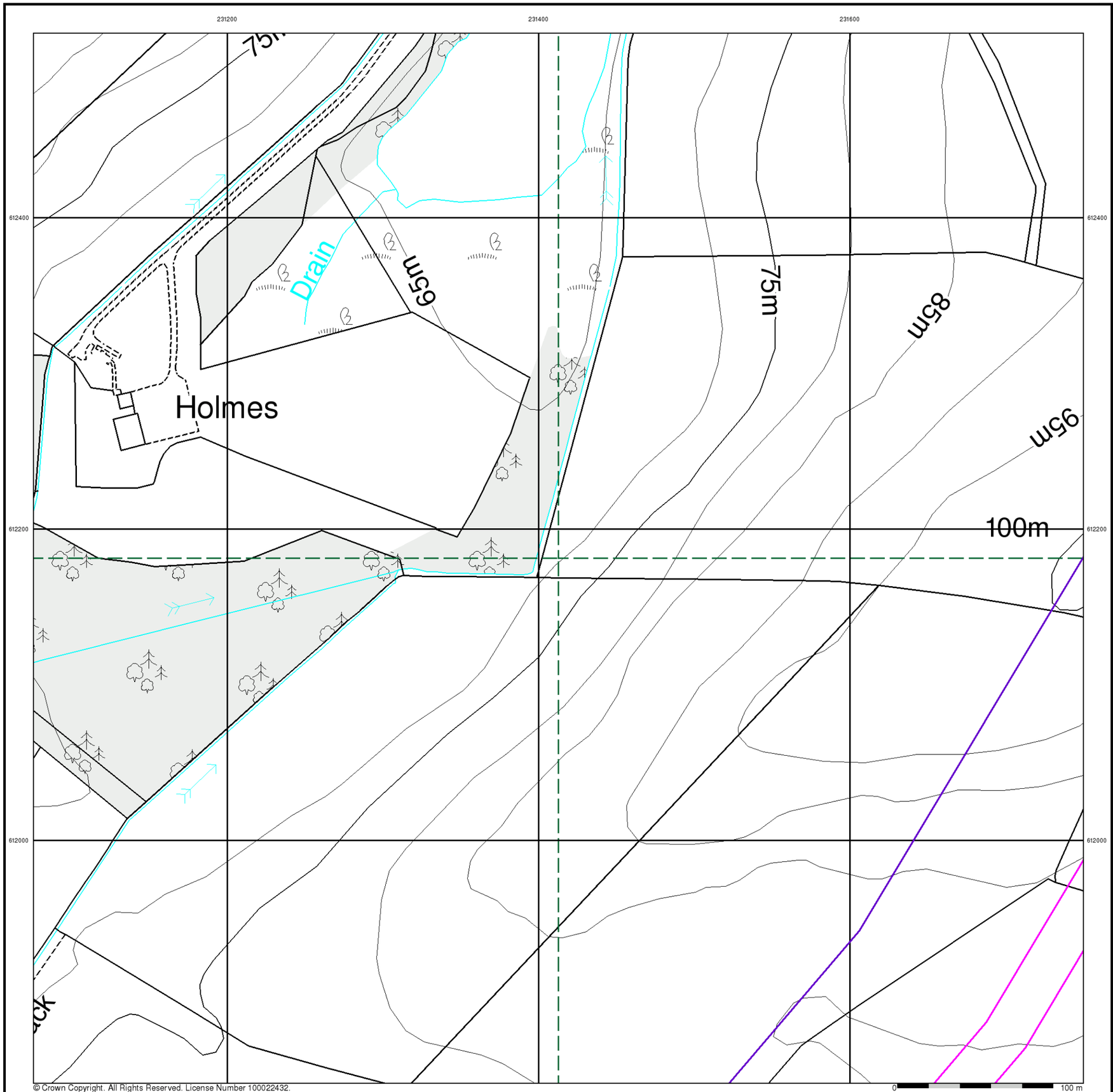
Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Ordnance Survey Licensed Partner
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	THE COAL AUTHORITY
Ove Arup	ARUP
Peter Brett Associates	pba peterbrett
Wardell Armstrong	wardell armstrong your earth our world
Johnson Poole & Bloomer	JPB

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	**Landmark Information Group Limited** The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk



Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

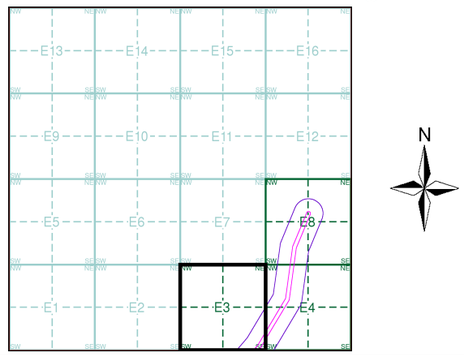
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▭
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▭
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment E3



Order Details

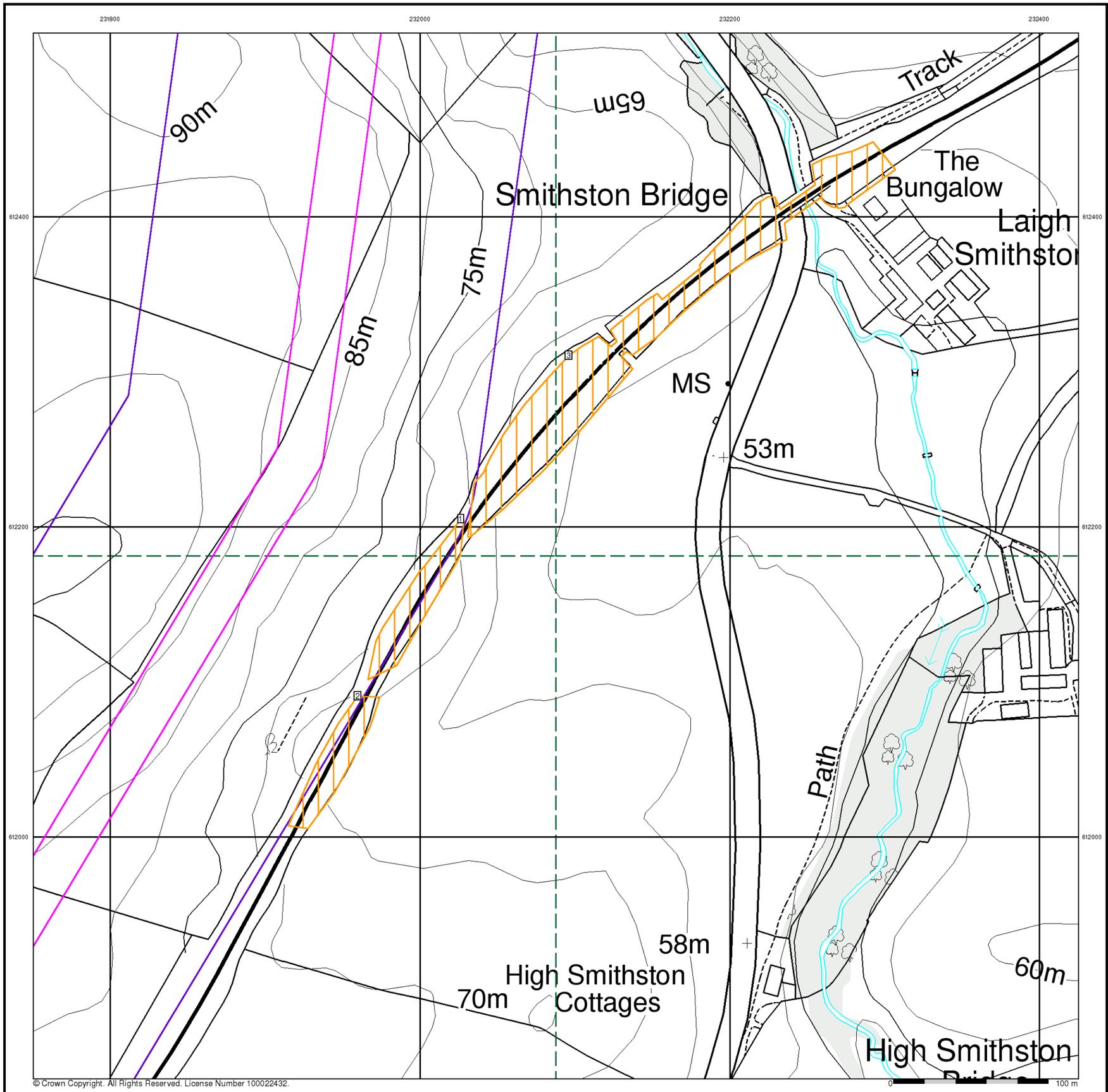
Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

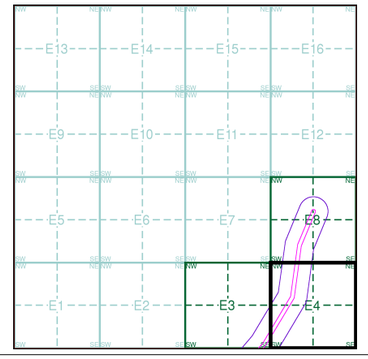
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▨
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▨
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment E4



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

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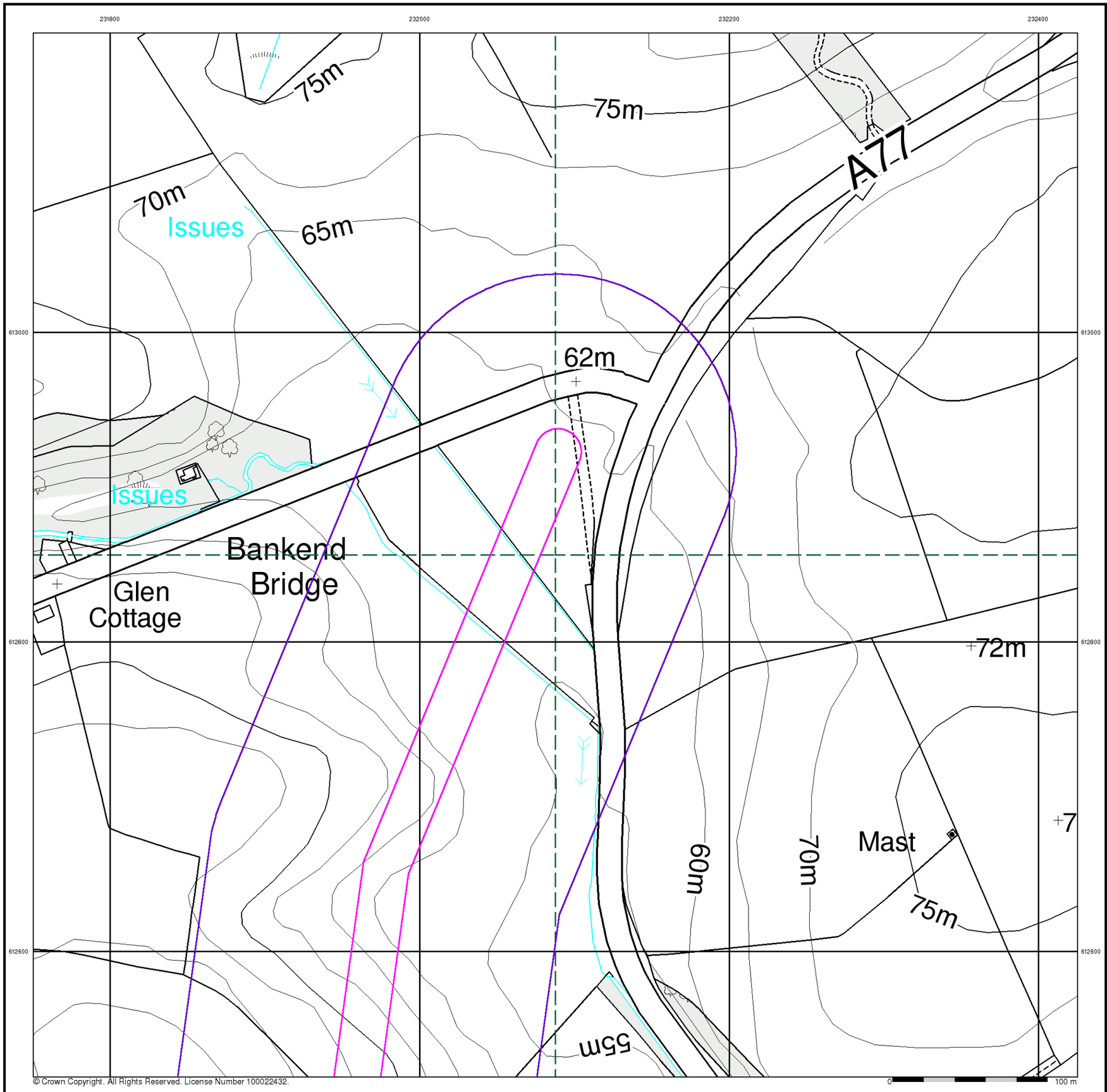
Web: www.envirocheck.co.uk



Envirocheck® Mining

Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

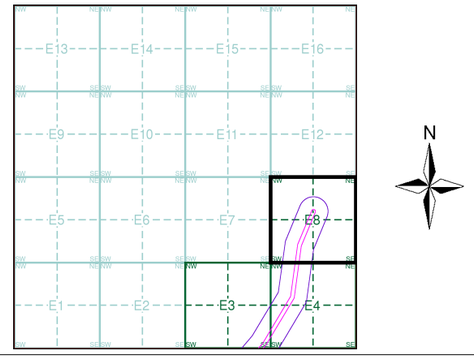
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▭
Extractive Industries Activity from 1893 - 1915	▲	—	▭
Extractive Industries Activity from 1906 - 1937	▲	—	▭
Extractive Industries Activity from 1924 - 1949	▲	—	▭
Extractive Industries Activity from 1950 - 1980	▲	—	▭

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▭

Mining and Ground Stability - Segment E8



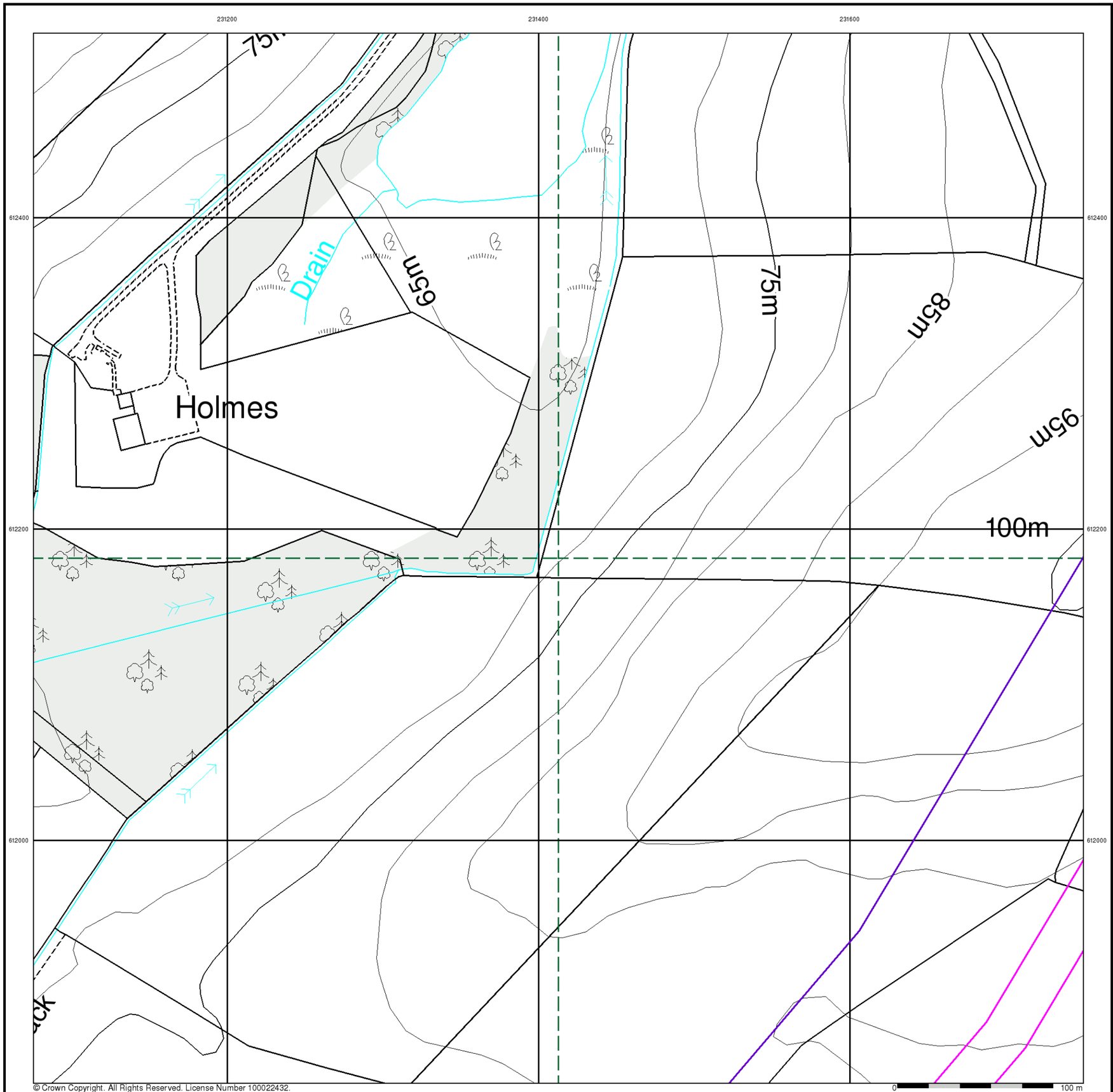
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck® Mining

Motion Map Data (1:2,500)

General

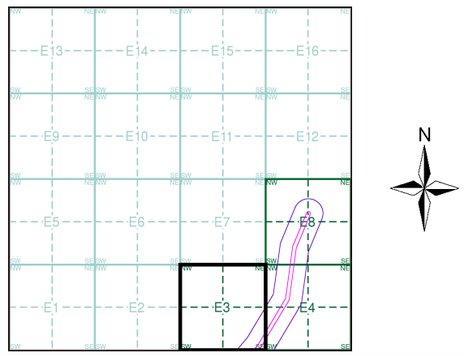
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

Upward Movement > 3.5mm per year	
Upward Movement 1.5mm to 3.5mm per year	
Stable 1.5mm to -1.5mm per year	
Downward Movement -1.5mm to -3.5mm per year	
Downward Movement > -3.5mm per year	

Mining and Ground Stability - Segment E3



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

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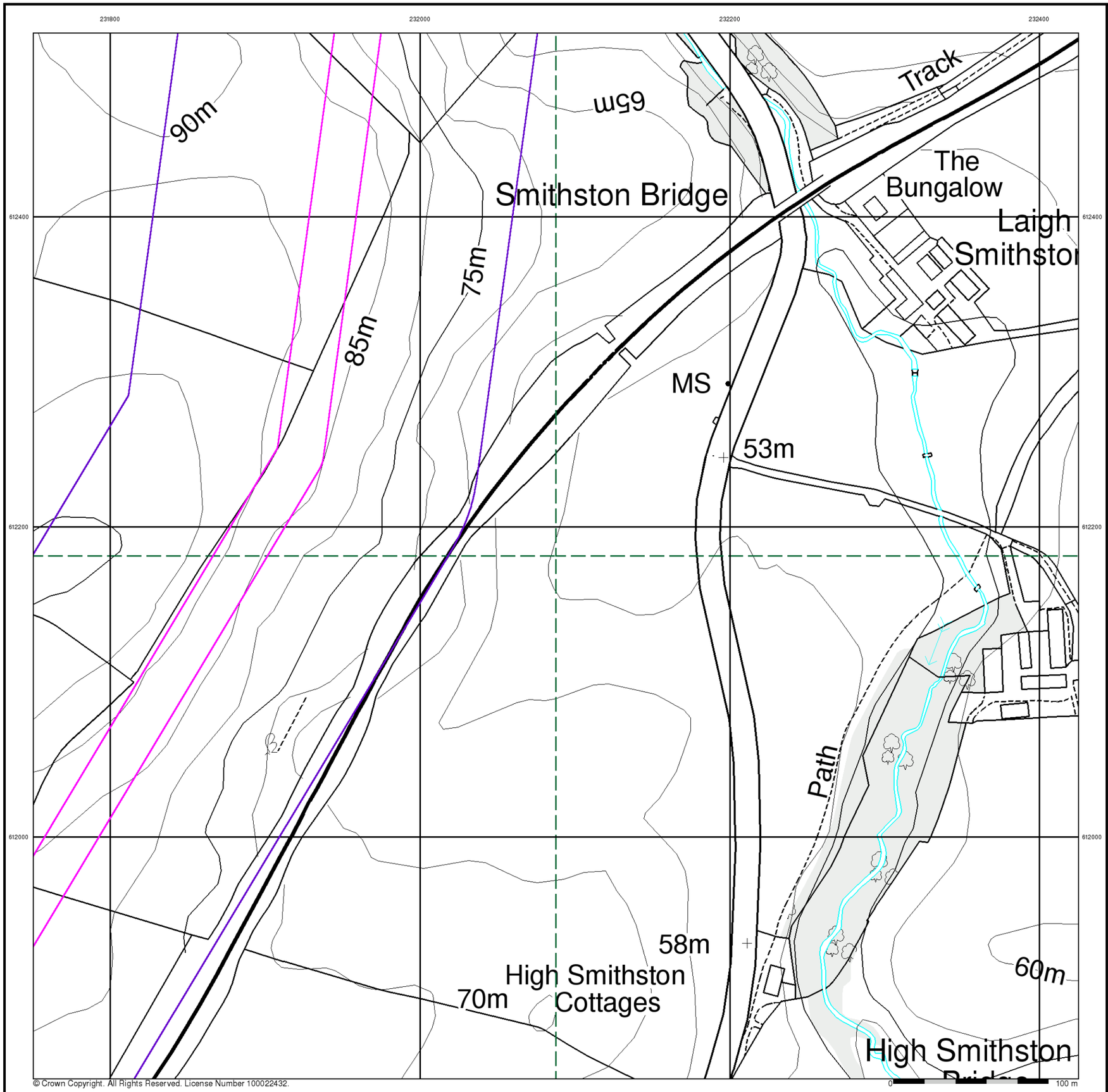


Envirocheck® Mining

Motion Map Data (1:2,500)

General

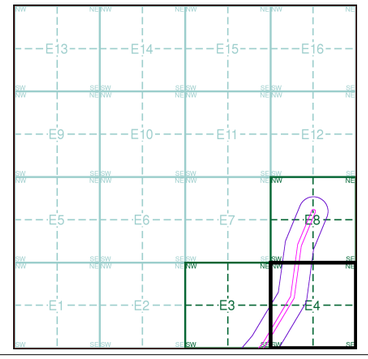
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment E4



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

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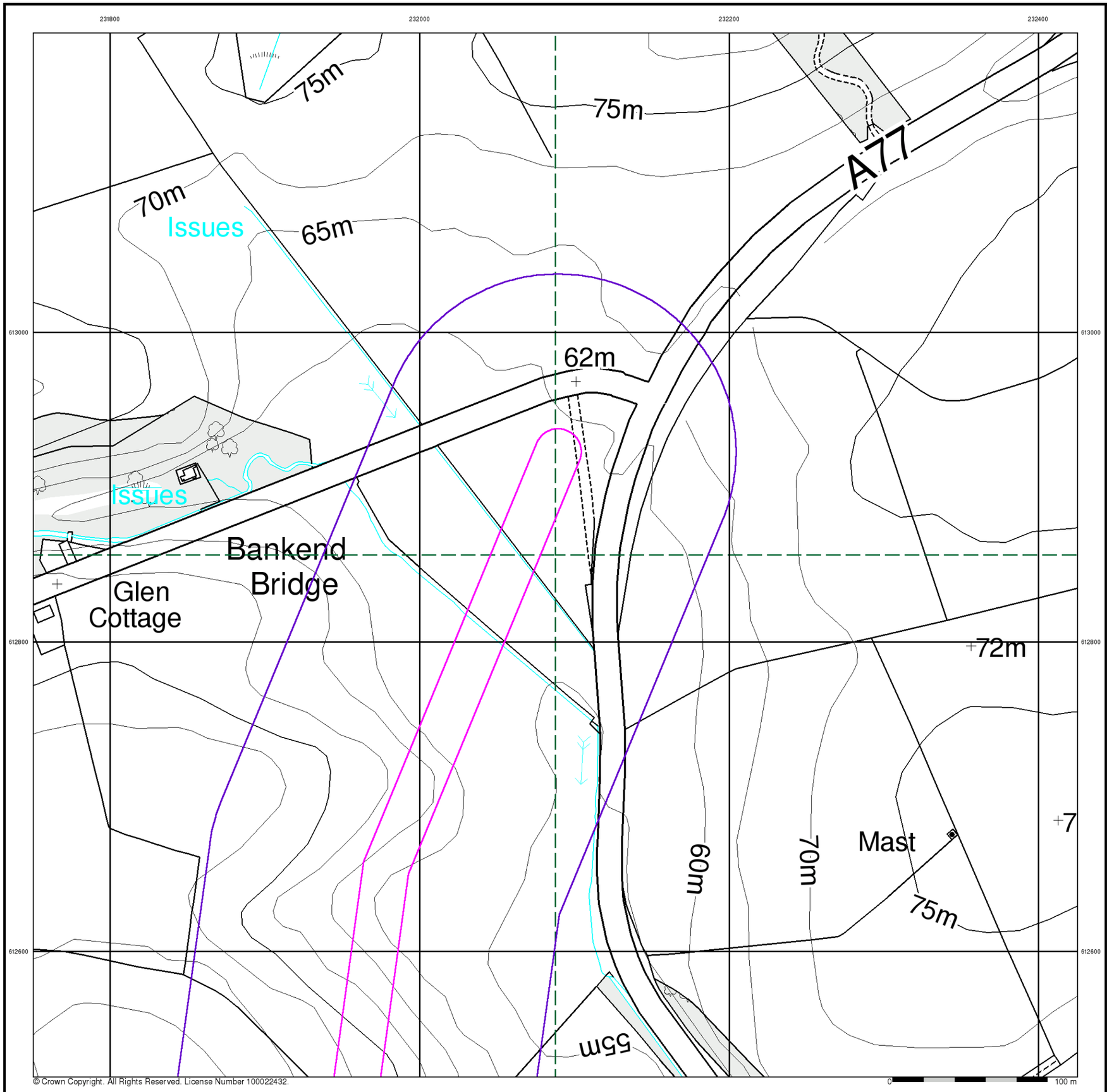


Envirocheck® Mining

Motion Map Data (1:2,500)

General

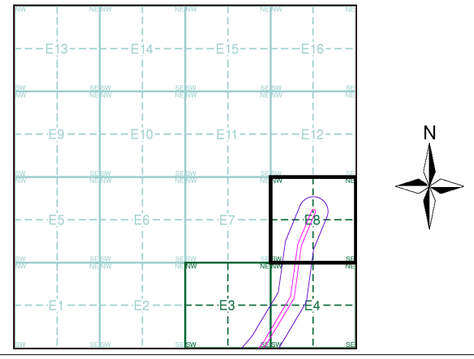
Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Average Velocity Gradient

- Upward Movement > 3.5mm per year
- Upward Movement 1.5mm to 3.5mm per year
- Stable 1.5mm to -1.5mm per year
- Downward Movement -1.5mm to -3.5mm per year
- Downward Movement > -3.5mm per year

Mining and Ground Stability - Segment E8



Order Details

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Slice:	E
Site Area (Ha):	16.08
Plot Buffer (m):	100

Site Details

Site at, Maybole, South Ayrshire

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

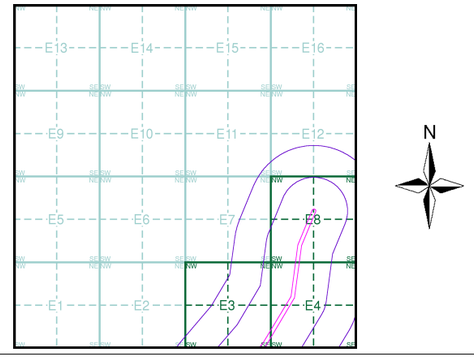
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

Envirocheck®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Ayrshire	1:10,560	1859 - 1860	2
Ayrshire	1:10,560	1896 - 1897	3
Ayrshire	1:10,560	1910 - 1911	4
Historical Aerial Photography	1:10,560	1946	5
Ordnance Survey Plan	1:10,000	1957 - 1958	6
Ordnance Survey Plan	1:10,000	1971 - 1978	7
Ordnance Survey Plan	1:10,000	1987	8
10K Raster Mapping	1:10,000	2006	9
10K Raster Mapping	1:10,000	2012	10

Historical Map - Slice E



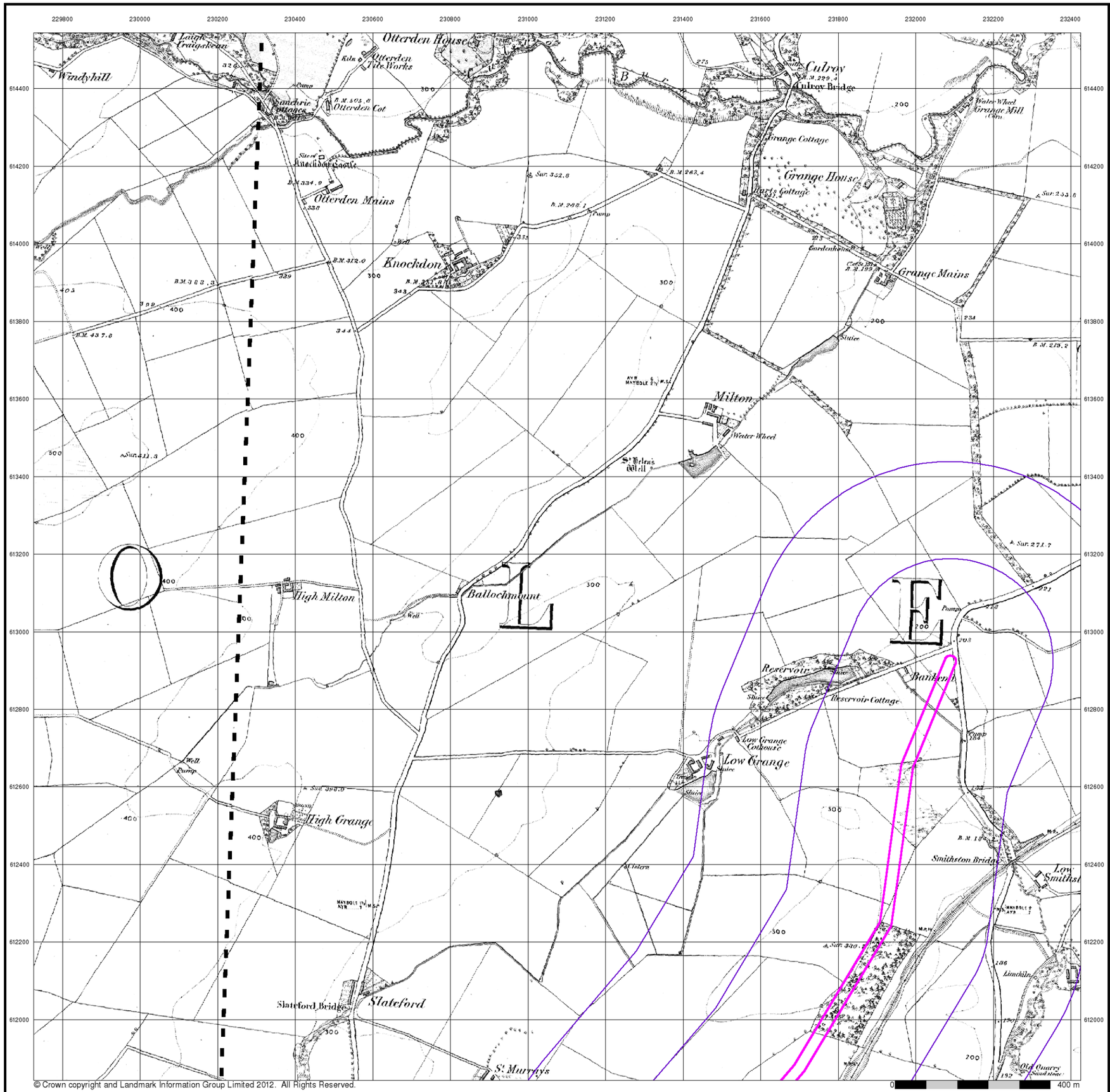
Order Details

Order Number: 40002230_1_1
Customer Ref: Co25000182
National Grid Reference: 231670, 612750
Slice: E
Site Area (Ha): 16.08
Search Buffer (m): 500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

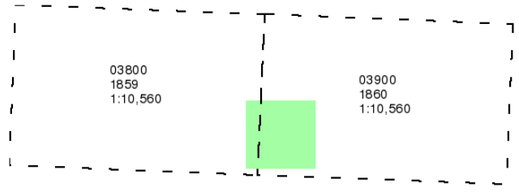
Ayrshire

Published 1859 - 1860

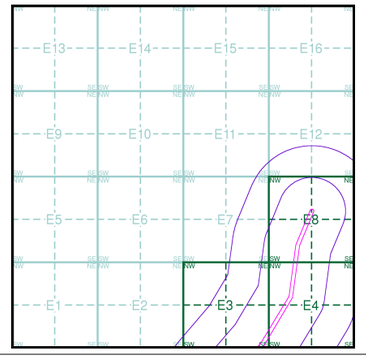
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice E



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Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
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Site Details

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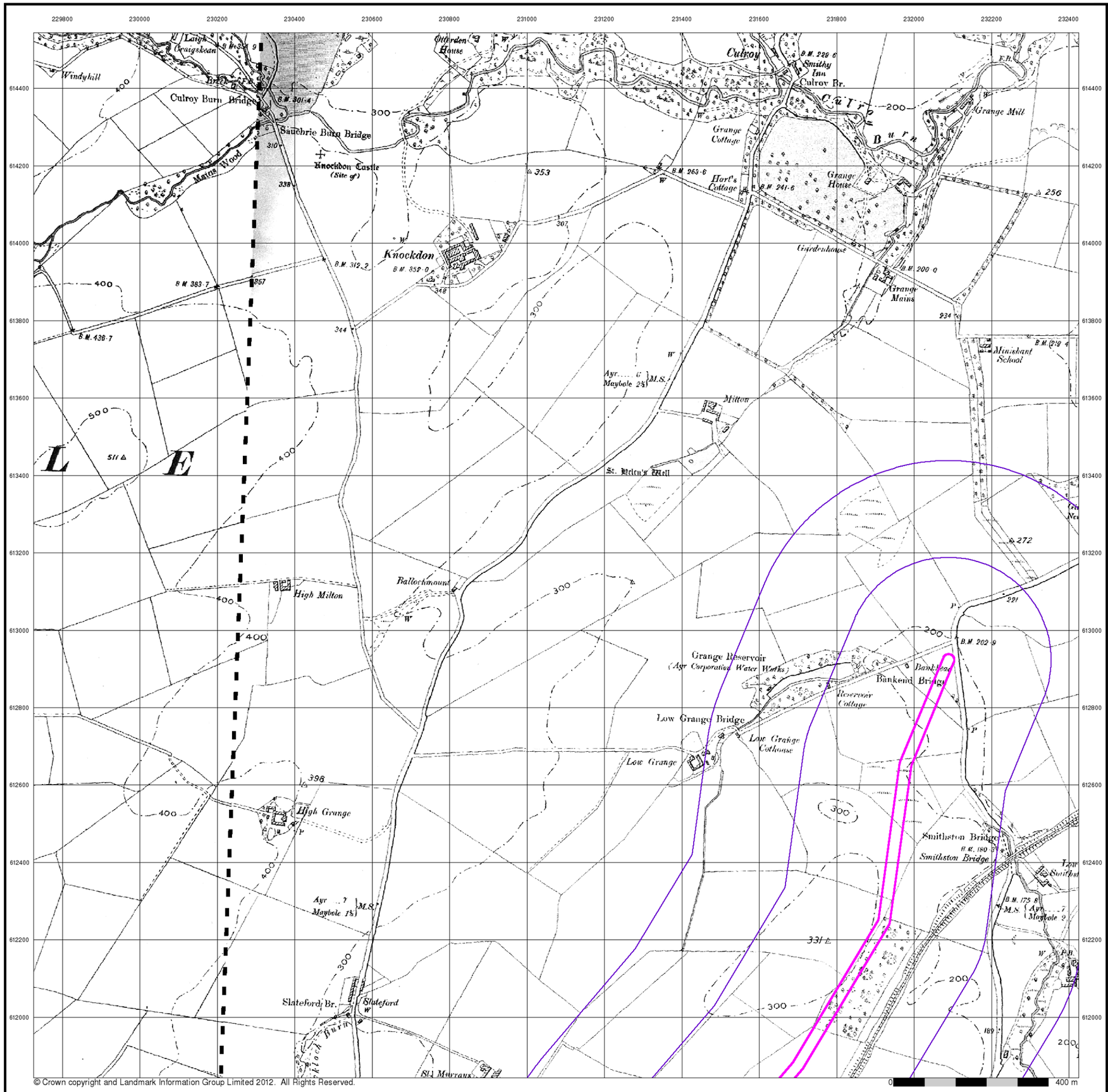

Envirocheck®

Ayrshire

Published 1896 - 1897

Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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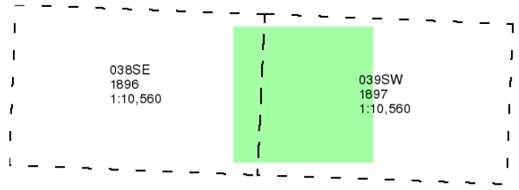
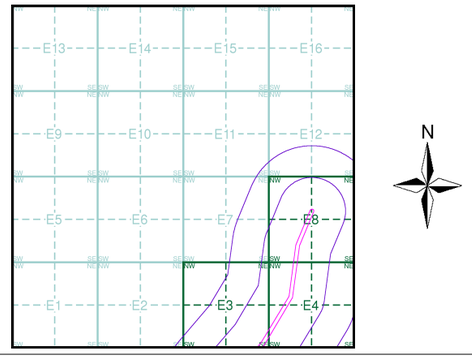


Historical Map - Slice E



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
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Site Details

Site at, Maybole, South Ayrshire

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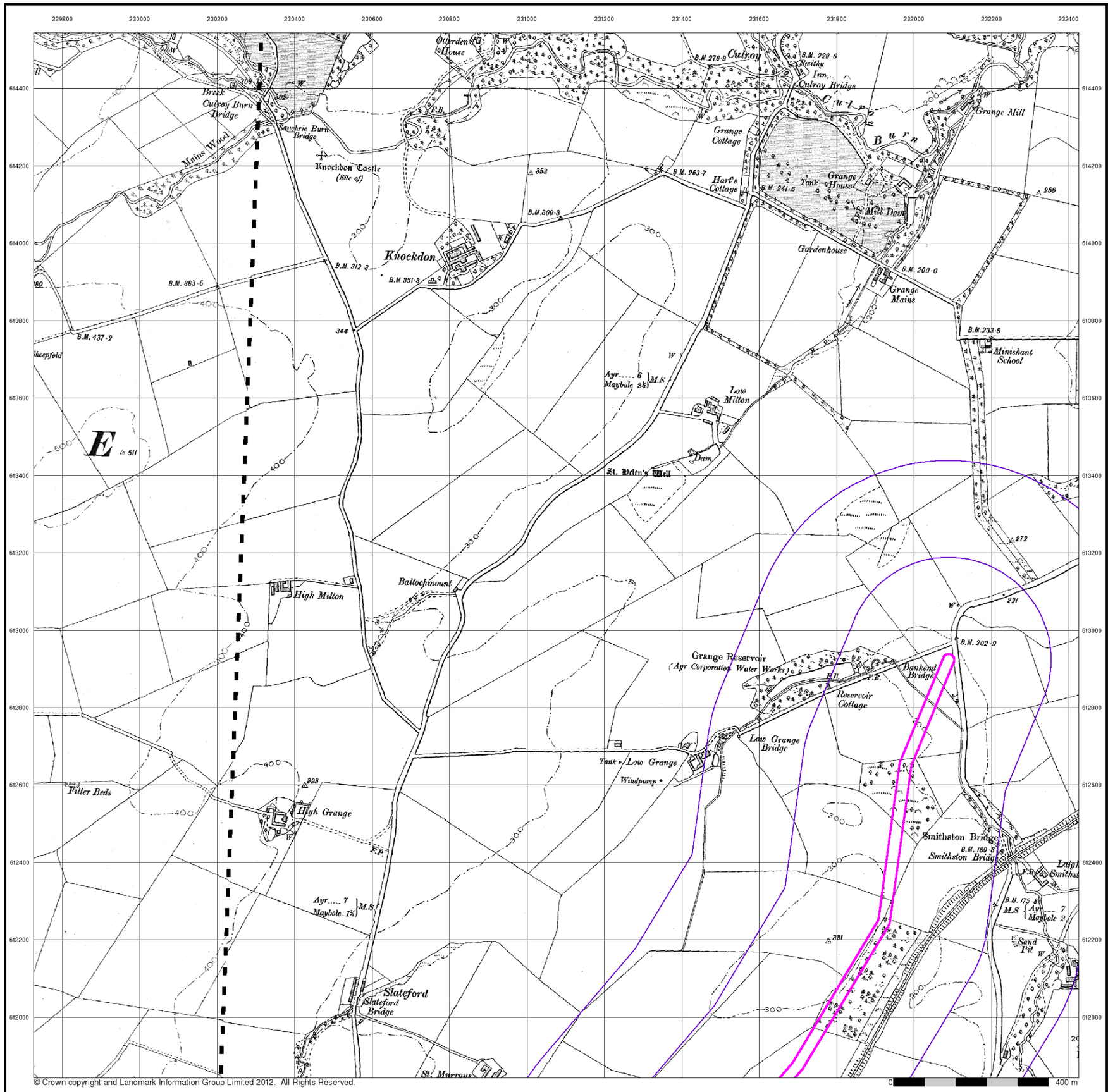

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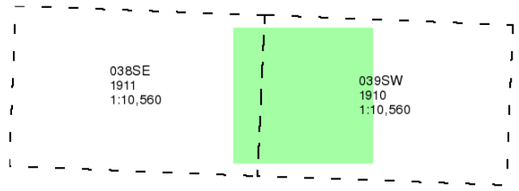
Ayrshire

Published 1910 - 1911

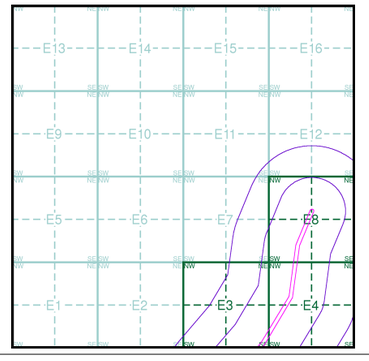
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice E



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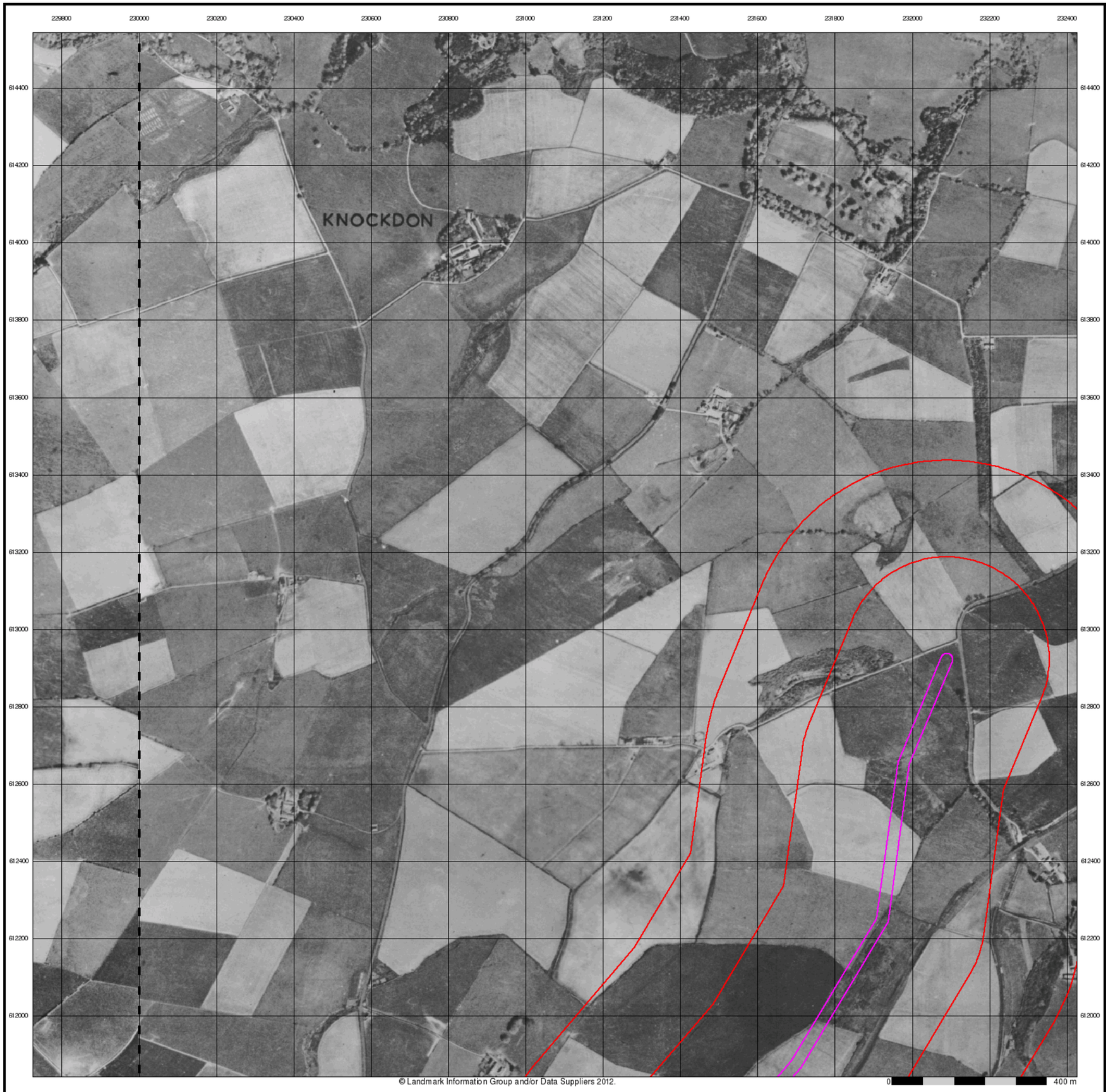


Envirocheck®

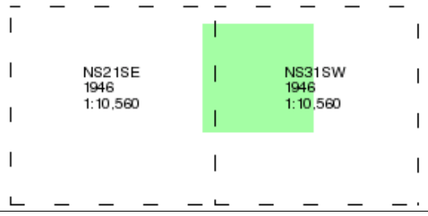
Historical Aerial Photography

Published 1946

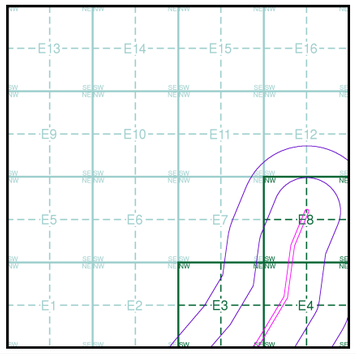
Source map scale - 1:10,560

The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

Map Name(s) and Date(s)



Historical Aerial Photography - Slice E



BRITISH LIBRARY

Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

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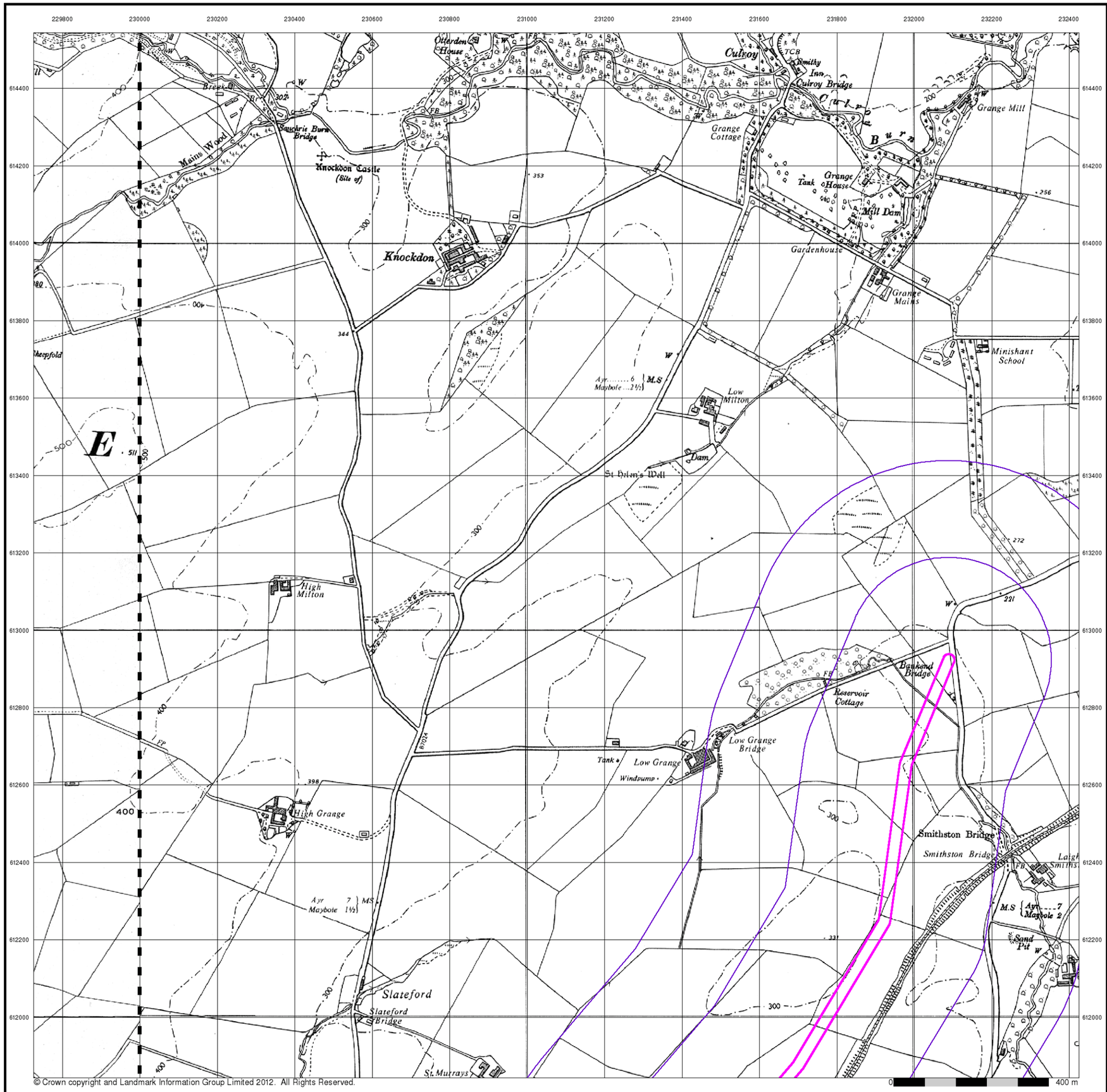

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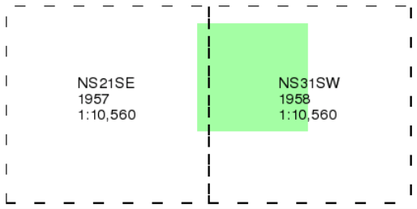
Ordnance Survey Plan

Published 1957 - 1958

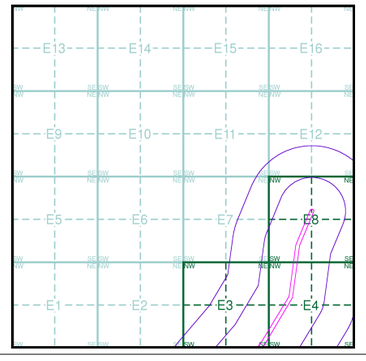
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice E



Order Details

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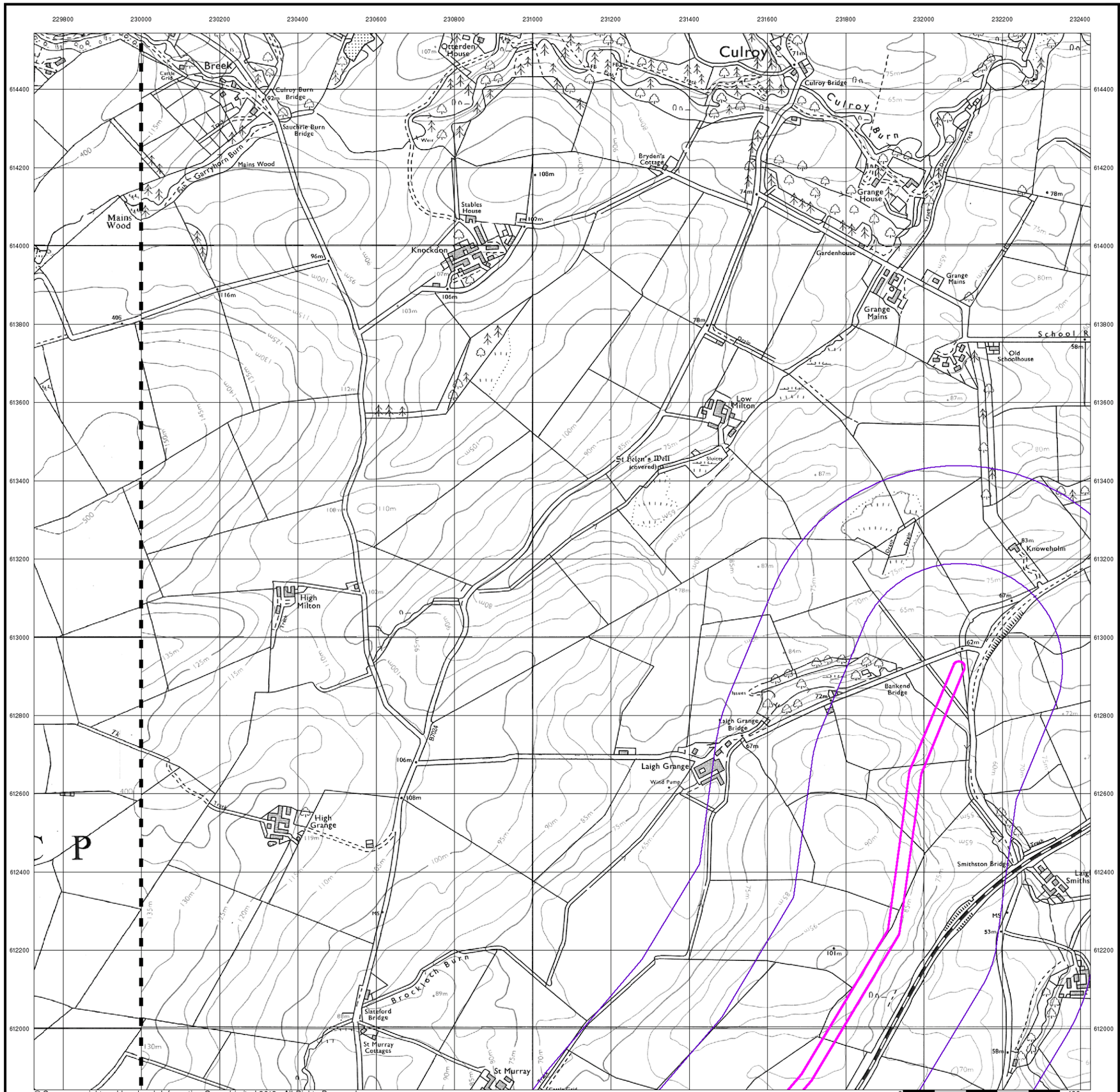


Envirocheck®

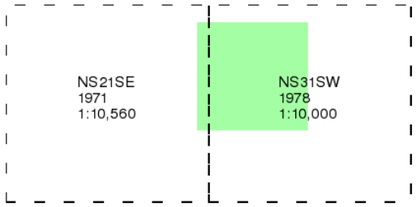
Ordnance Survey Plan

Published 1971 - 1978

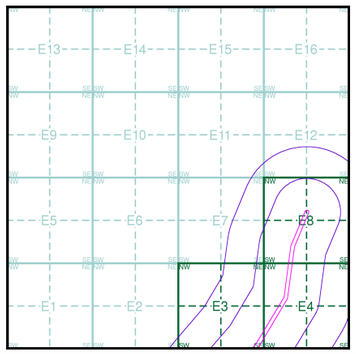
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice E



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
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Slice:	E
Site Area (Ha):	16.08
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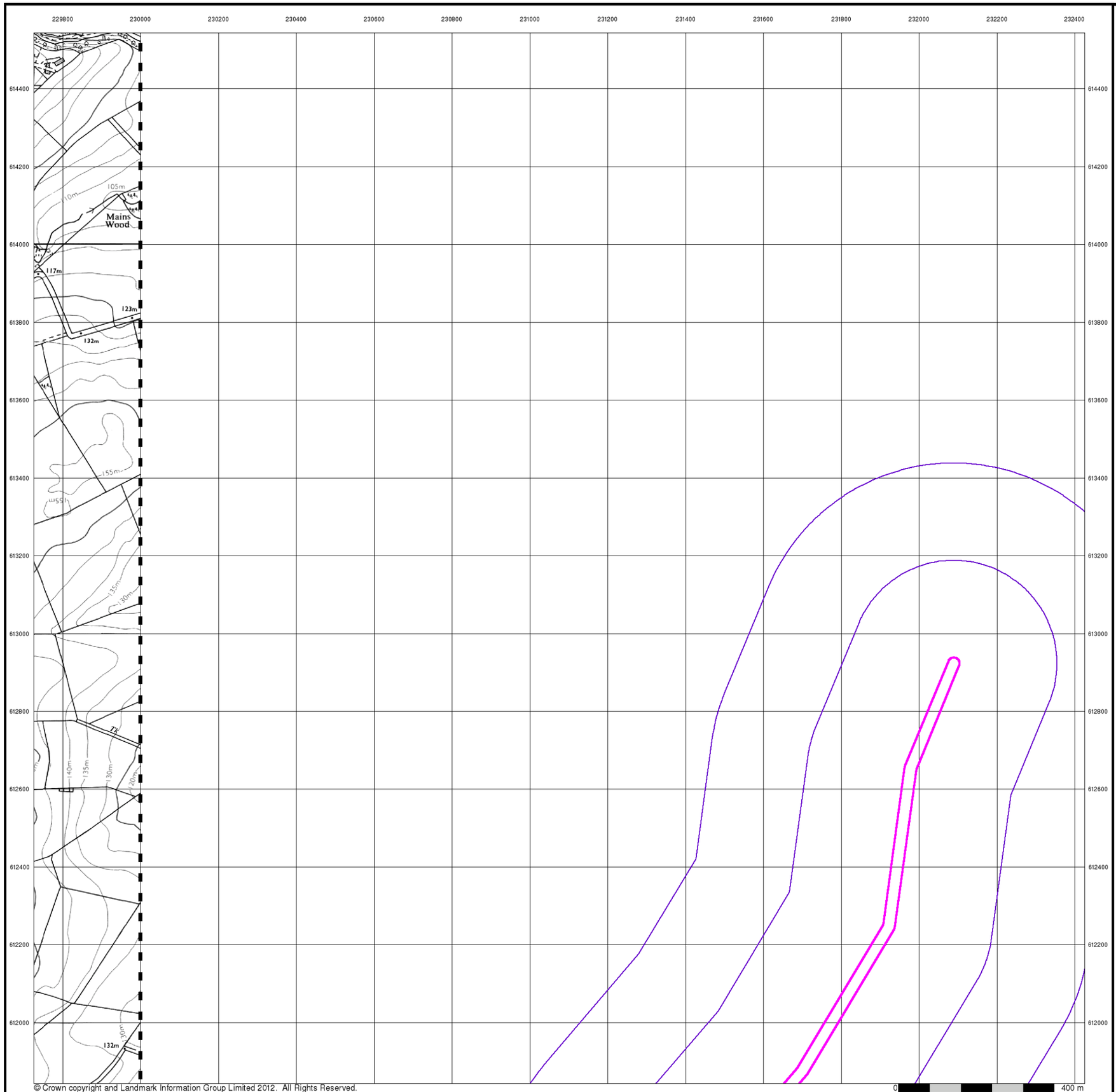

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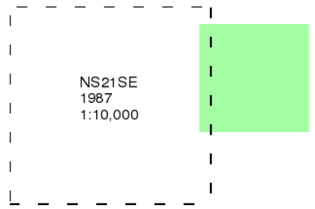
Ordnance Survey Plan

Published 1987

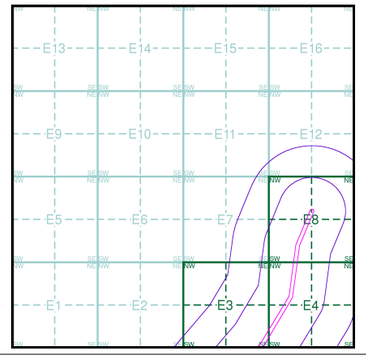
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice E



Order Details

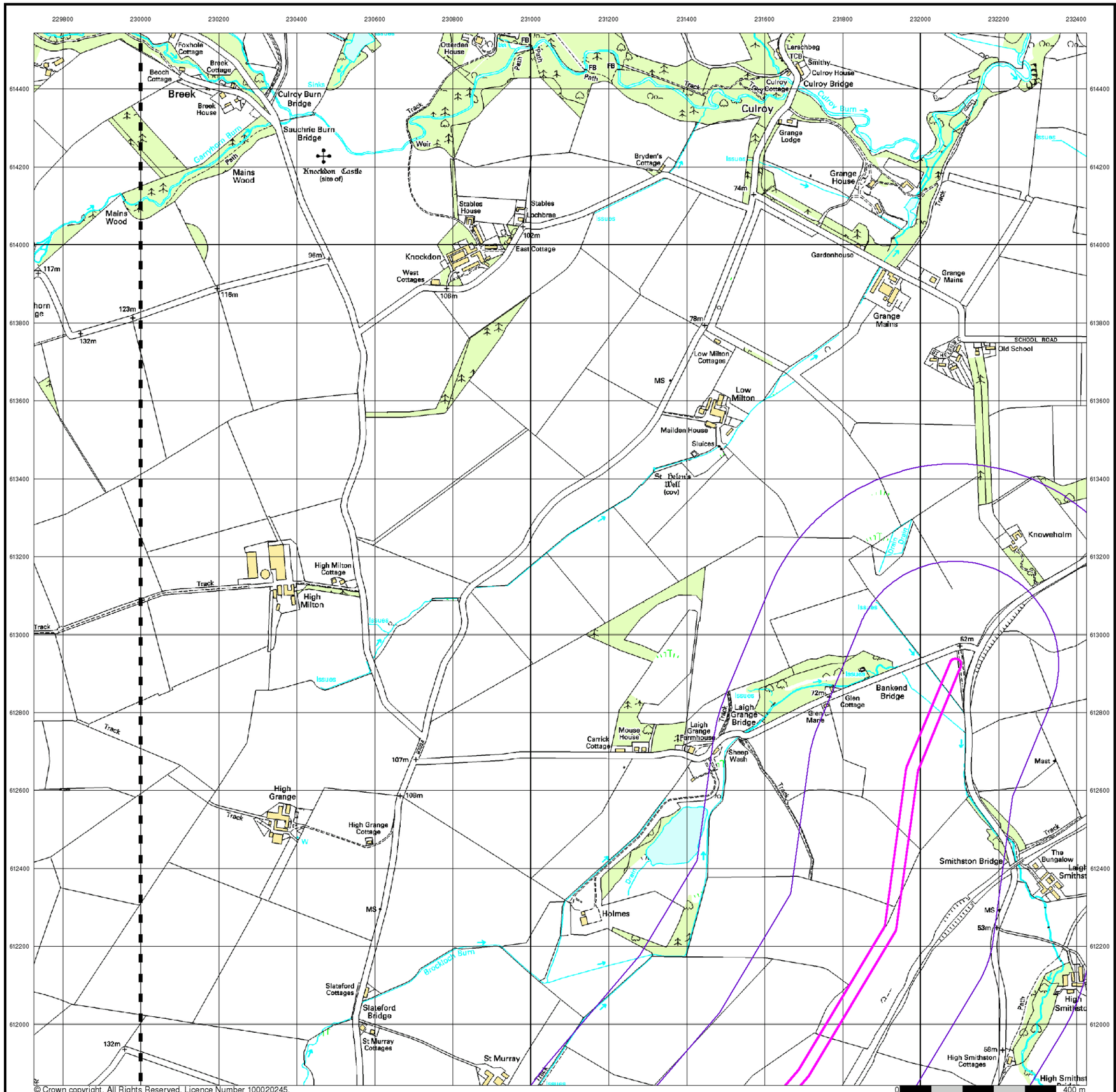
Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

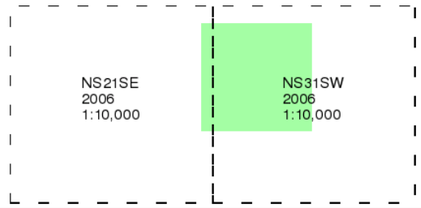
10k Raster Mapping

Published 2006

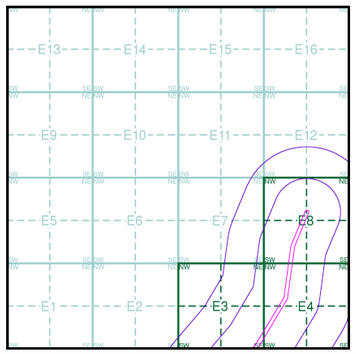
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice E



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

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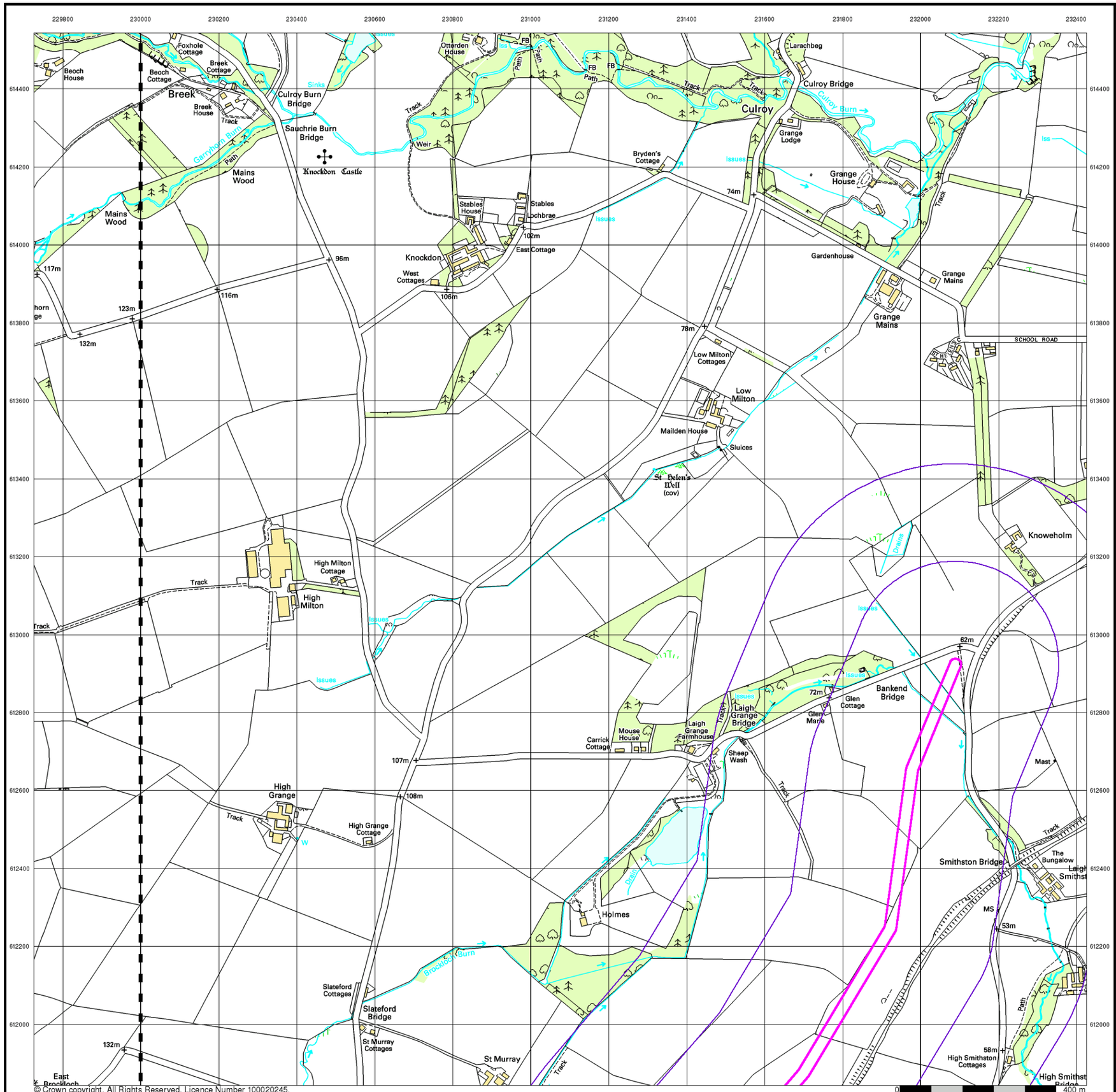


Envirocheck®

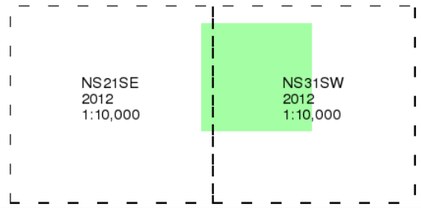
10k Raster Mapping

Published 2012

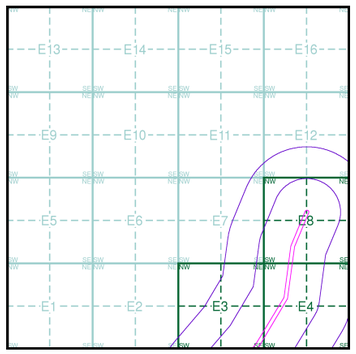
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice E



Order Details

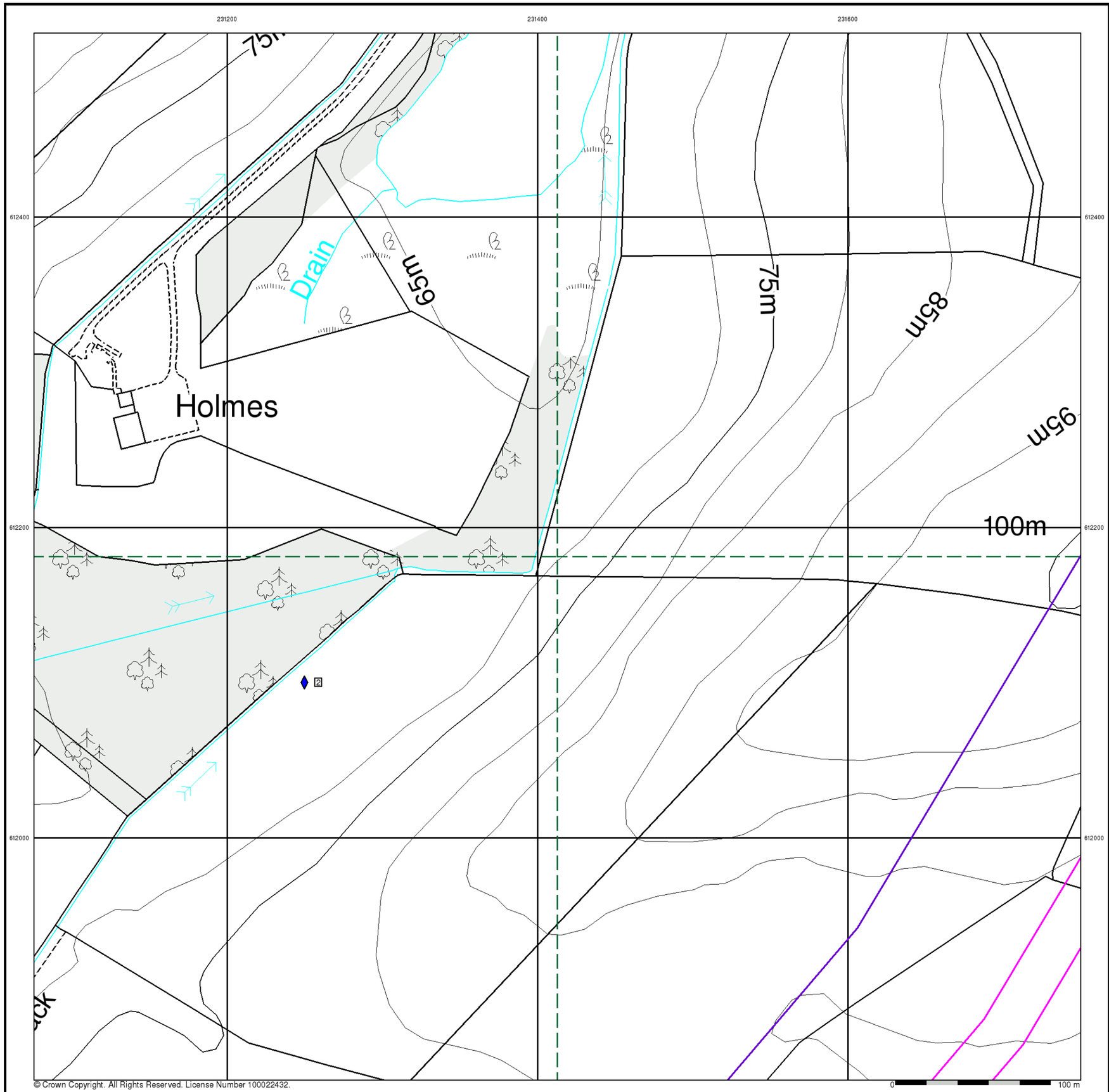
Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

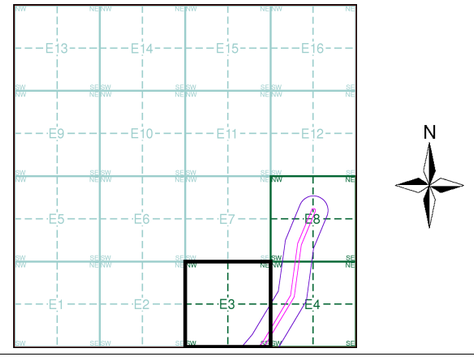
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment E3



Order Details

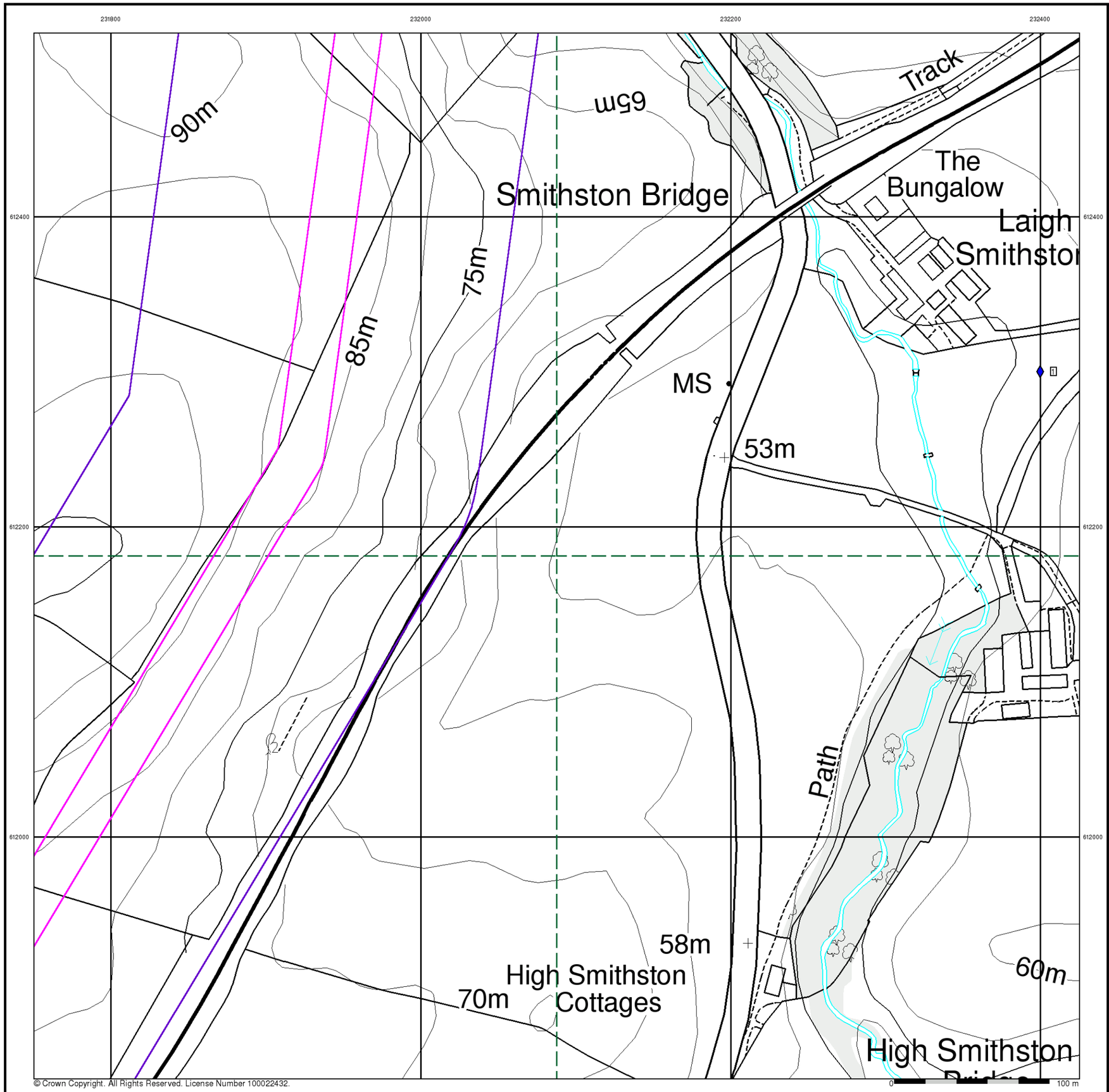
Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

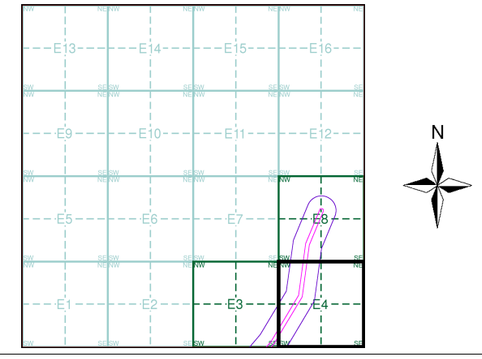
Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Site Sensitivity Map - Segment E4



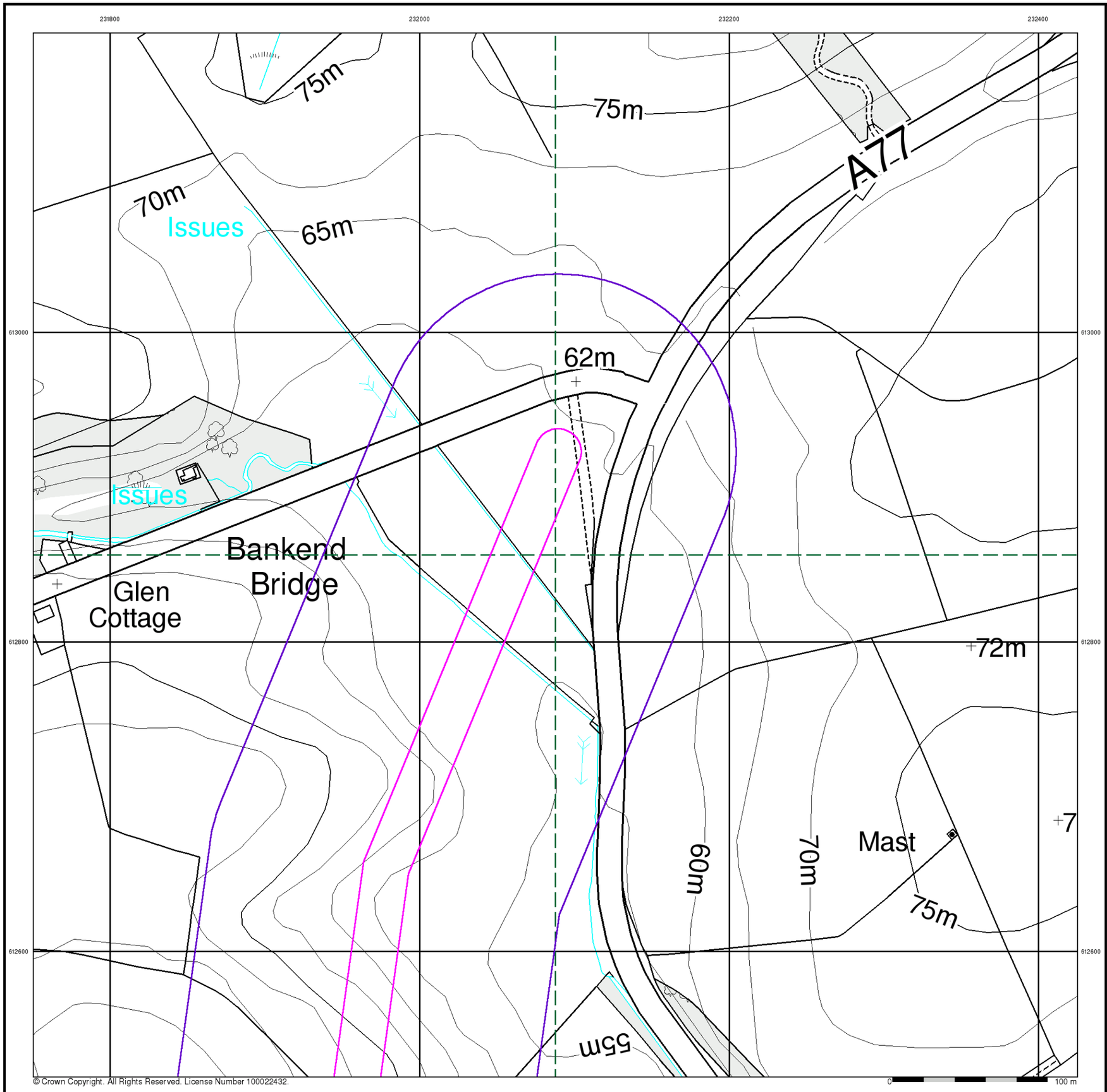
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Map ID
Several of Type at Location

Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)
Contaminated Land Register Entry or Notice
Discharge Consent
Enforcement or Prohibition Notice
Integrated Pollution Control
Integrated Pollution Prevention Control
Local Authority Integrated Pollution Prevention and Control
Local Authority Pollution Prevention and Control
Local Authority Pollution Prevention and Control Enforcement
Pollution Incident to Controlled Waters
Prosecution Relating to Authorised Processes
Prosecution Relating to Controlled Waters
Registered Radioactive Substance
River Network or Water Feature
Substantiated Pollution Incident Register
Water Abstraction
Water Industry Act Referral

Waste

BGS Recorded Landfill Site (Location)
BGS Recorded Landfill Site
Integrated Pollution Control Registered Waste Site
Local Authority Recorded Landfill Site (Location)
Local Authority Recorded Landfill Site
Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Point Buffered to 100m)
Registered Landfill Site (Point Buffered to 250m)
Registered Waste Transfer Site (Location)
Registered Waste Transfer Site
Registered Waste Treatment or Disposal Site (Location)
Registered Waste Treatment or Disposal Site

Hazardous Substances

COMAH Site
Explosive Site
NIHHS Site
Planning Hazardous Substance Consent
Planning Hazardous Substance Enforcement

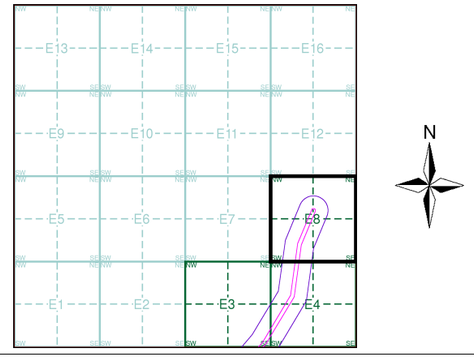
Geological

BGS Recorded Mineral Site

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry

Site Sensitivity Map - Segment E8



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08

Site Details

Site at, Maybole, South Ayrshire

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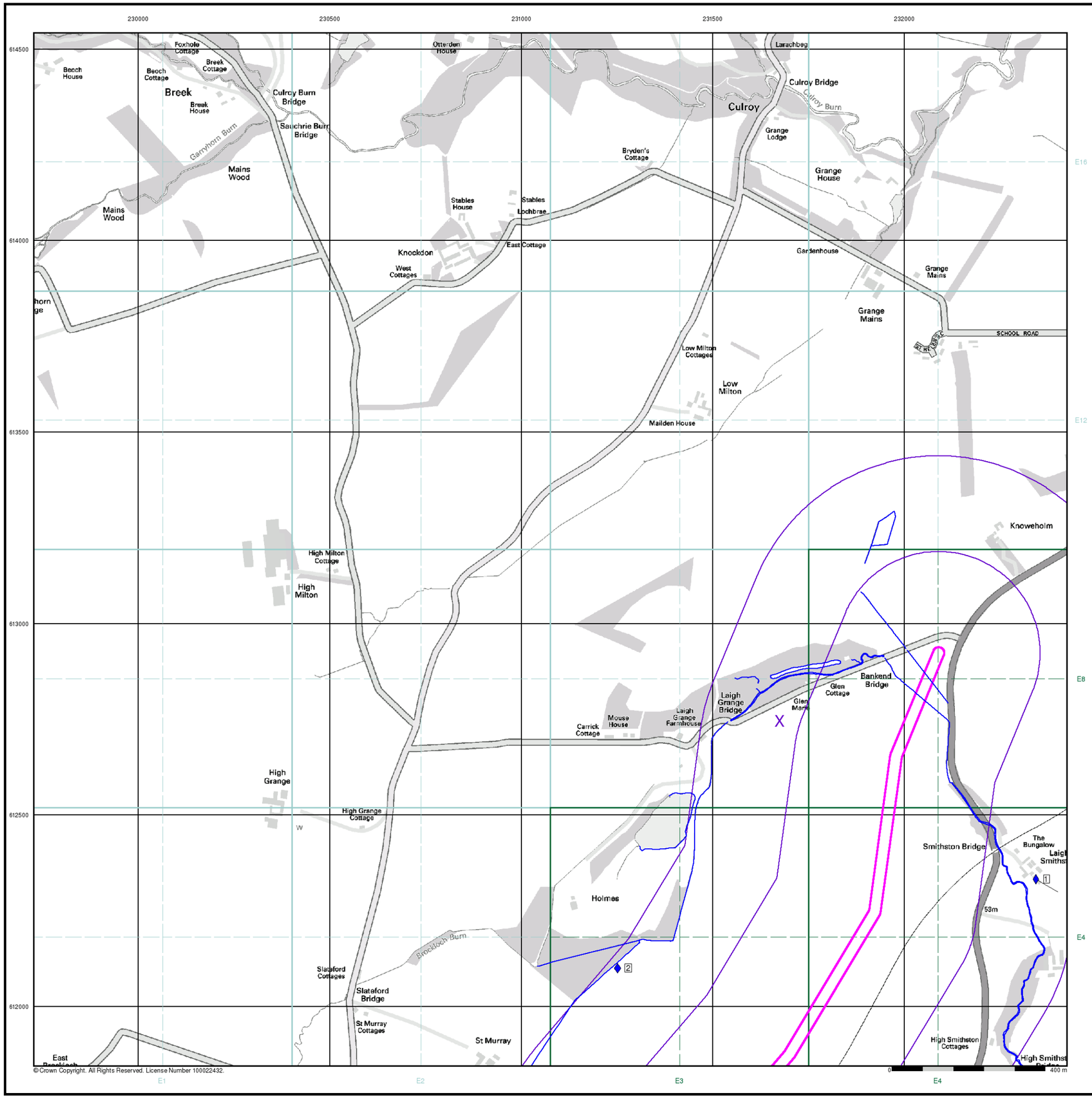


Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- Integrated Pollution Control Registered Waste Site
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

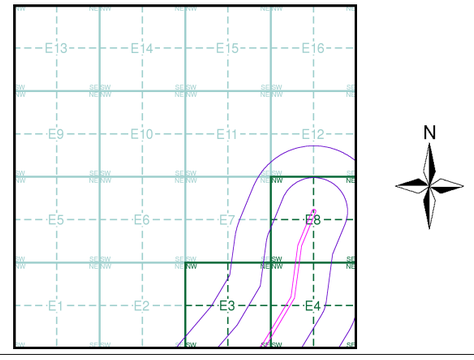
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice E



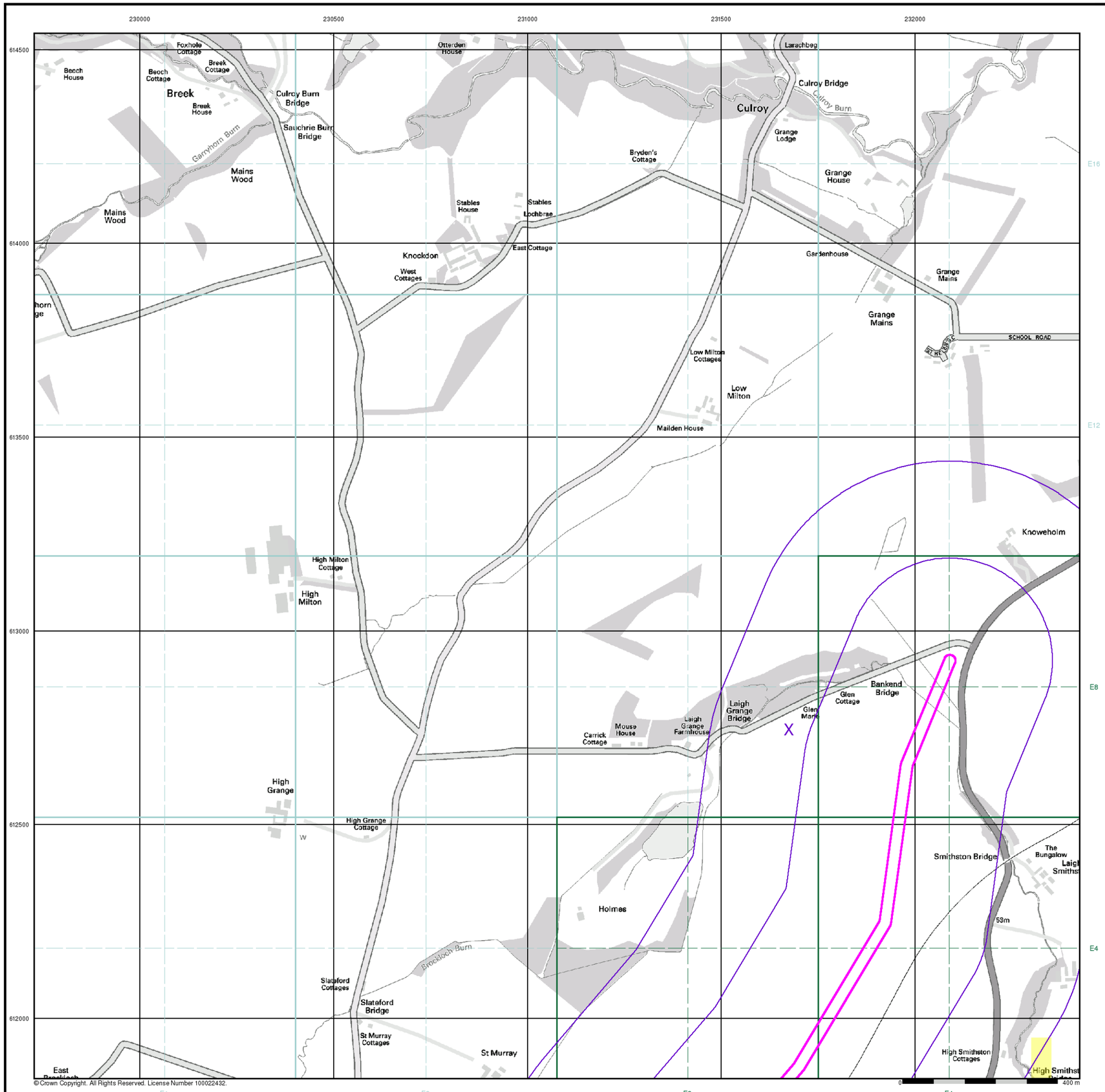
Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

Landmark® Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Envirocheck®

General

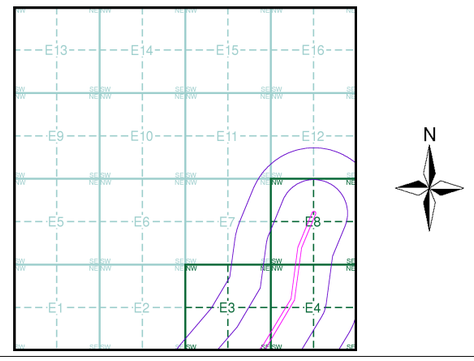
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- 0 - 1m estimated 100yr flood depth
- 1 - 2m estimated 100yr flood depth
- Over 2m estimated 100yr flood depth

The flooded areas have been generated using a generalised technique and should not, by themselves, be used to infer that specific areas are or are not at risk of inundation. Flood risk at any specific location may be influenced by local factors - not least flood defence - that have not been taken into account.

Flood Map - Slice E



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

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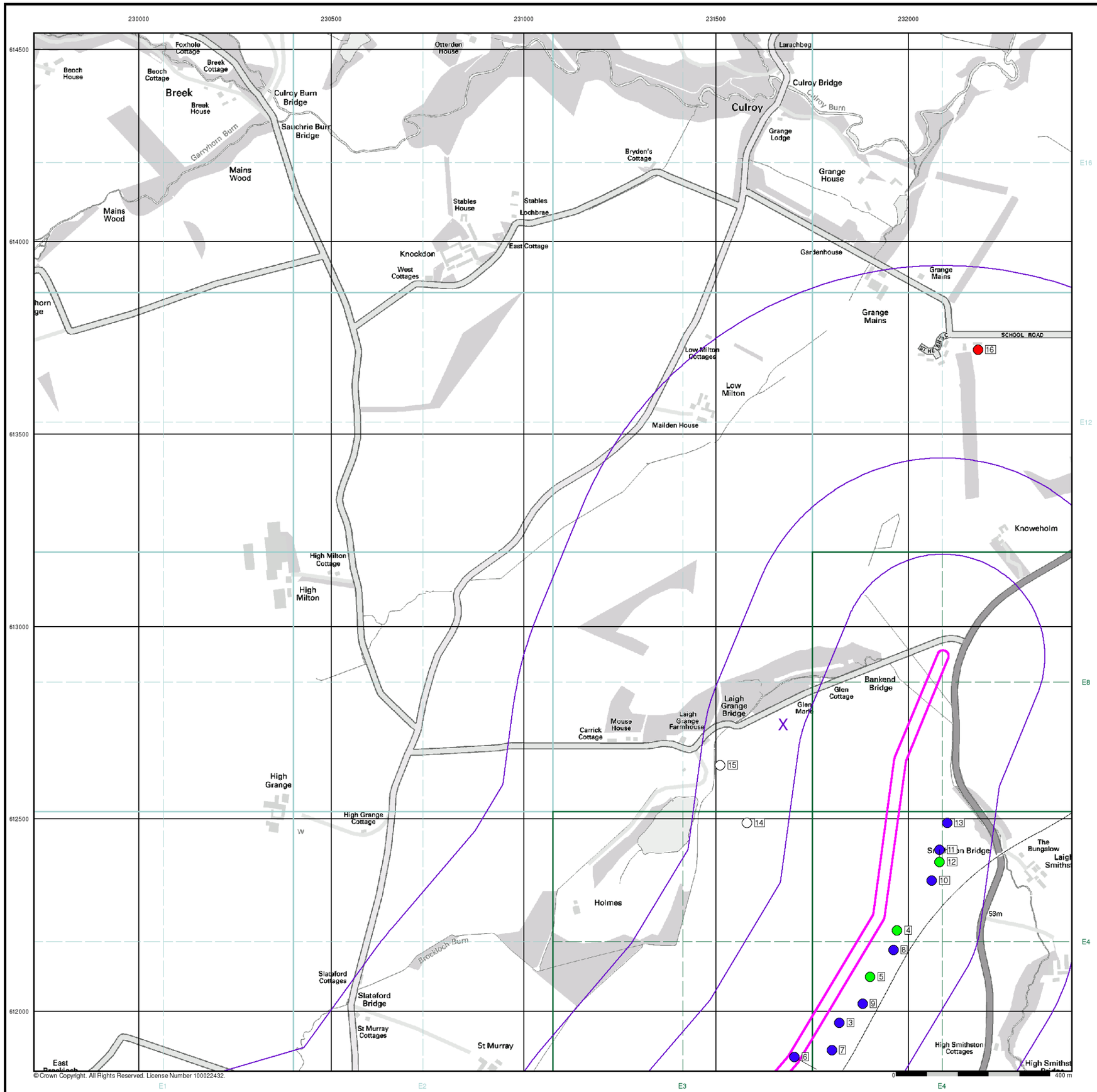
Web: www.envirocheck.co.uk



Envirocheck®

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

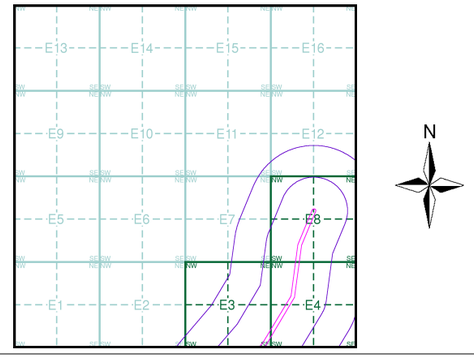
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole datasheet which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice E



Order Details

Order Number:	40002230_1_1
Customer Ref:	Co25000182
National Grid Reference:	231670, 612750
Slice:	E
Site Area (Ha):	16.08
Search Buffer (m):	500

Site Details

Site at, Maybole, South Ayrshire

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Web: www.envirocheck.co.uk

Appendix D

Historical Exploratory Hole Records

NS31SW24

Norwest Holst Soil Engineering Ltd.

Trial Pit No. **229**

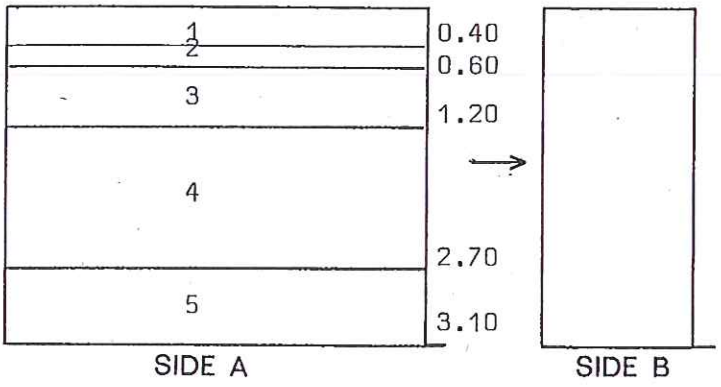
TRIAL PIT LOG

Contract No. F6802
Location Maybole
Client Strathclyde Regional Council
Excavation Plant MS 120
Dimensions (l x b x h) 4.0 x 1.0 x 3.1m

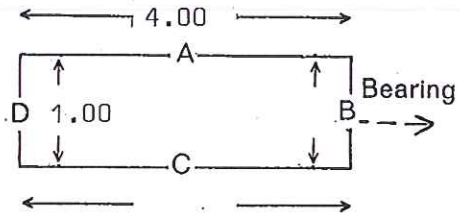
230000
610630

Chainage .....
Ground Level 127.63 m.A.O.D.
Date 29/4/86

ELEVATIONS:—

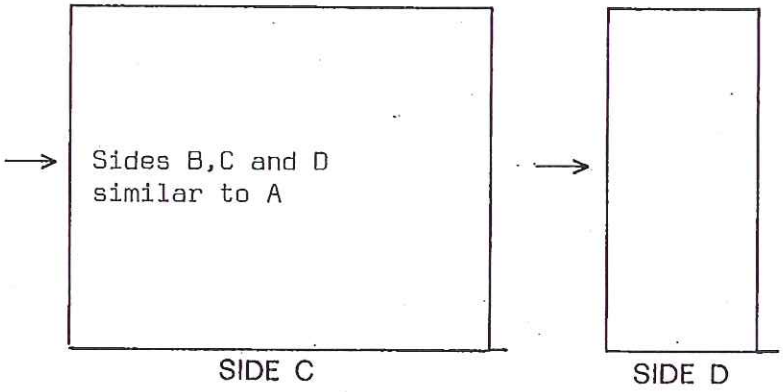


PLAN (Not to scale)



SAMPLES

No. & Type	Depth m.
B&J	0.80
B&J	1.50



No.	Depth m.	STRATA DESCRIPTION	Cv/Cp kN/m²
1	0.00-0.40	Dark brown sandy TOPSOIL	
2	0.40-0.60	Firm orange brown friable very sandy silty CLAY with occasional gravel	
3	0.60-1.20	Firm to stiff reddish brown occasionally orange brown mottled sandy silty CLAY with some gravel	
4	1.20-2.70	Stiff reddish brown sandy silty CLAY with some gravel and occasional cobbles and boulders	
5	2.70-3.10	Brown flat tabular SANDSTONE fragments with much brown clayey sand matrix. Below 3.00m becoming SANDSTONE bedrock 3.00 - 3.10m difficult to excavate	

NOTES Cv/Cp: Approximate value of undrained shear strength from hand vane/penetrometer
Groundwater: Dry
Pumping: -
Supports/Stability: Stable

Norwest Holst Soil Engineering Ltd.

NS31SW33

Borehole No **S108**

BOREHOLE LOG

Contract No. F6802
Location Maybole
Client Strathclyde Regional Council
Method of Boring Percussion
Diameter of Borehole 150mm

230430
610800

Sheet 1 of 2
Chainage
Ground Level 115.38 m.A.O.D.
Date 28/4/86 - 29/4/86

Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D.%	Daily Progress
Brown sandy TOPSOIL		0.40	114.98				28/4
Firm reddish brown and orange brown mottled very sandy silty CLAY with some gravel		1.80	113.58		0.50 (18) 1.50 ((32)		
Stiff reddish brown very sandy silty CLAY with some gravel and occasional cobbles and boulders		3.40	111.98		2.50 (40)		29/4
Stiff greyish brown very sandy silty CLAY with some gravel and occasional cobbles and boulders ....below 7.00m becoming very stiff ....7.70m boulder ... driven to 11.00m					3.50 (60) NO RECOVERY 4.00 (46) 5.00 (48) 6.00 (38) 7.00 s 8.00 c 9.50 c	"58" 86for 150mm 48for 75mm	

Type of Sample

Ds	S.P.T.	▮	Undisturbed
Dc.	C.P.T.	×	Vane
O	Jar	Δ	Water
●	Bulk		Piezometer

Remarks (Observations of Ground Water etc.) () undisturbed sample blows
Ground Water: 28/4/86 borehole dry
29/4/86 A.M. standinglevel 2.50m

NS31SW33

Norwest Holst Soil Engineering Ltd.

Borehole No **S108**

BOREHOLE LOG

Contract No. F6802
Location Maybole
Client Strathclyde Regional Council
Method of Boring Percussion
Diameter of Borehole 150mm

Sheet 2 of 2
Chainage
Ground Level 115.38 m.A.O.D.
Date 28/4/86-29/4/86

Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D.%	Daily Progress
Stiff very stiff greyish brown very sandy silty CLAY with some gravel and occasional cobbles and boulders		11.00	104.38		C 11.00	60for* 75mm	

Type of Sample

- Is S.P.T.
- Ic. C.P.T.
- O Jar
- ● Bulk
- ■ Undisturbed
- × Vane
- Δ Water
- Piezometer

Remarks (Observations of Ground Water etc.)

* Seating blows only

Water levels are subject to seasonal or tidal variations and should not be taken as constant

NS31SW18

Norwest Holst Soil Engineering Ltd.

Trial Pit No. **222**

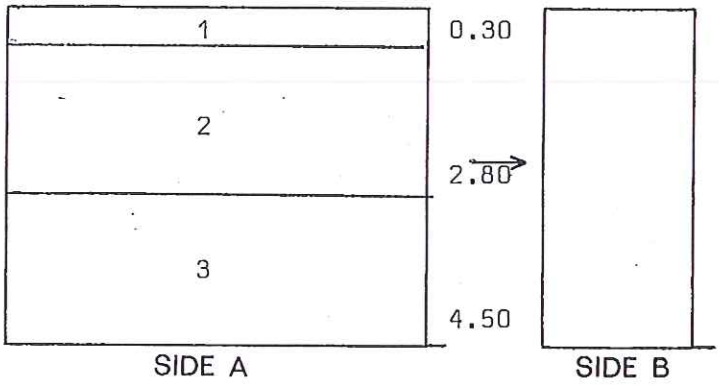
TRIAL PIT LOG

Contract No. F6802
Location Maybole
Client Strathclyde Regional Council
Excavation Plant MS 120
Dimensions (l x b x h) 4.0 x 1.0 x 4.5m

230440
610830

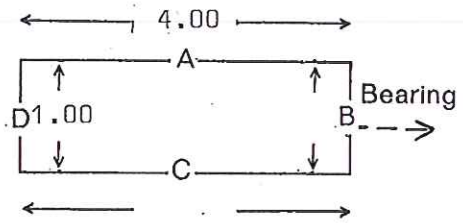
Chainage .....
Ground Level 112.65 m.A.O.D.
Date 28/4/86

ELEVATIONS:—



SIDE A SIDE B

PLAN (Not to scale)



SAMPLES

No. & Type	Depth m.
B&J	1.00
B&J	2.20
B&J	3.10
B&J	4.40

Sides B, C and D similar to A

SIDE C SIDE D

No.	Depth m.	STRATA DESCRIPTION	Cv/Cp kN/m²
1	0.00-0.30	Brown sandy TOPSOIL	
2	0.30-2.80	Firm orange brown and reddish brown mottled friable sandy silty CLAY with some gravel and occasional cobbles and boulders ... below 1.00m becoming stiff ... below 1.20m becoming reddish brown	
3	2.80-4.50	Very stiff greyish brown sandy silty CLAY with some gravel and occasional cobbles and boulders	

NOTES Cv/Cp: Approximate value of undrained shear strength from hand vane/penetrometer
Groundwater: Dry
Pumping: -
Supports/Stability: Stable

NS31SW12

Norwest Holst Soil Engineering Ltd.

Trial Pit No. **213**

Contract No. F6802

TRIAL PIT LOG

Location Maybole

Client Strathclyde Regional Council 231540

Excavation Plant EDER 805 611570

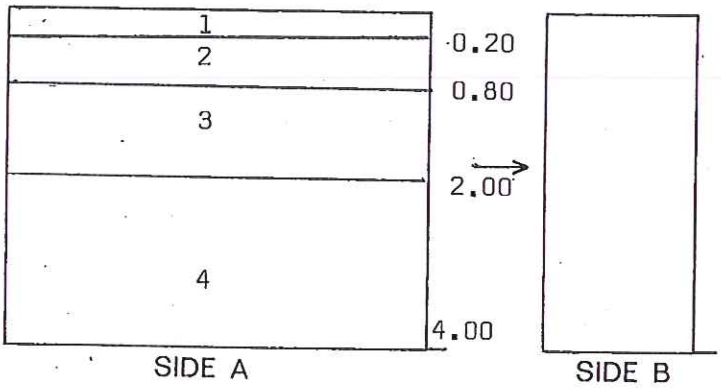
Dimensions (l x b x h) 2.80 x 0.90 x 4.00

Chainage

Ground Level 74.89 m.A.O.D.

Date 29/1/85

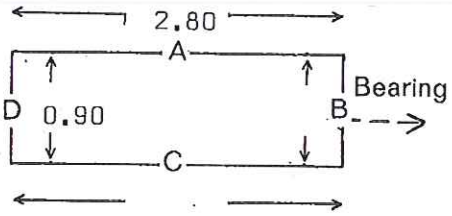
ELEVATIONS:—



SIDE A

SIDE B

PLAN (Not to scale)



SAMPLES

No. & Type	Depth m.
J	0.50
J	1.00
J	1.50
J	2.20
J	3.30
J	3.80

SIDES B, C, AND D SIMILAR TO A

SIDE C

SIDE D

No.	Depth m.	STRATA DESCRIPTION	Cv/Cp kN/m²
1	0.00 0.2-	Brown sandy TOPSOIL	
2	0.20 0.80	Firm orange brown, brown and grey mottled friable very sandy silty CLAY with some gravel and many cobbles	
3	0.80- 2.00	Firm brown friable very sandy silty CLAY with some gravel and many cobbles ...below 1.10m becoming stiff	
4	2.00- 4.00	Stiff grey brown sandy silty CLAY with some gravel and many cobbles (up to 0.60m) with some fissures ...below 3.50m becoming very stiff	

NOTES Cv/Cp: Approximate value of undrained shear strength from hand vane/penetrometer

Groundwater: Dry

Pumping:

Supports/Stability: Stable

Norwest Holst Soil Engineering Ltd.

NS31SW34

Borehole No. **S110**

BOREHOLE LOG

Contract No. F6802

Location Maybole

Client Strathclyde Regional Council

Method of Boring Percussion

Diameter of Borehole 150mm

231760
611850

Sheet 1 of 1

Chainage

Ground Level 79.94 m.A.O.D.

Date 31/1/86

Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D.%	Daily Progress
TOPSOIL		0.10	79.84				
Firm brown and orange brown friable very sandy silty CLAY with some fine medium gravel		1.70	78.24		0.75 (16) 1.50 (21)		
Firm brown very sandy silty CLAY with some gravel and occasional cobbles		2.90	77.04		2.25 (35)		
Stiff greyish brown very sandy silty CLAY with some ground and occasional cobbles and boulders		5.40	74.57		3.50 (30) 4.50 (37)		
Grey slightly weathered fine medium grained SANDSTONE moderately strong.		6.00	73.94				

Type of Sample

- Is S.P.T.
- Ic. C.P.T.
- O Jar
- Bulk
- Undisturbed
- × Vane
- Δ Water
- Piezometer

Remarks (Observations of Ground Water etc.) () undisturbed sample blows

Ground Water: 31/1/86 Borehole dry

Norwest Holst Soil Engineering Ltd.

Borehole No S111

NS31SW35

BOREHOLE LOG

Contract No. F6802
Location Maybole
Client Strathclyde Regional Council
Method of Boring Percussion
Diameter of Borehole 150mm

231820
611970

Sheet 1 of 1
Chainage
Ground Level 81.27 m.A.O.D.
Date 1/5/86

Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D.%	Daily Progress
TOPSOIL		0.20	81.07				
Firm brown and orange brown mottled very sandy silty CLAY with some gravel		1.40	79.87		0.50 (20)		
Stiff brown very sandy silty CLAY with some fine to coarse gravel and occasional cobbles and boulders		5.70	75.57		1.50 (30) 2.50 (46) 3.50 (46) 4.50 (40) 5.50 (60)		
Brown moderately weathered SANDSTONE weak.		6.00	75.27		6.00	NO RECOVERY 60for No Penetration	

Type of Sample

Is S.P.T. ▮ Undisturbed
Ic. C.P.T. × Vane
O Jar Δ Water
● Bulk Piezometer

Remarks (Observations of Ground Water etc.) () Undisturbed sample blows
Ground water: dry during drilling. After 24hrs. standing at 2m.

S111

Norwest Holst Soil Engineering Ltd.

Borehole No **S112**

NS31SW36 T6802

BOREHOLE LOG

Contract No.....
Location Maybole
Client Strathclyde Regional Council
Method of Boring Percussion
Diameter of Borehole 150mm

231900
612090

Sheet 1 of 2
Chainage.....
Ground Level 79.79 m.A.O.D.
Date 2/5/86-7/5/86

Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D.%	Daily Progress
TOPSOIL		0.20	79.59				2/5
Firm reddish brown and brown mottled friable very sandy silty CLAY		0.80	78.99		0.50 (20)		
Firm brown sandy silty CLAY with some gravel		1.50	78.29		1.50 (34)		
Stiff greyish brown very sandy silty CLAY with some fine to coarse gravel and occasional cobbles.					2.50 (46)		
					3.50 (36)		
					4.50 (30)		
					5.50 (32)		
					6.50 (38)		
					7.50 (40)		7/5
					9.50 (36)		

Type of Sample

Is S.P.T. ■ Undisturbed
Ic. C.P.T. × Vane
O Jar Δ Water
● Bulk Piezometer

Remarks (Observations of Ground Water etc.) () Undisturbed sample blows.
Ground water 2/5/86 borehole dry during drilling
7/5/86 A.M. standing level 7.20m Borehole dry
on completion with no casing.

Norwest Holst Soil Engineering Ltd.

Borehole No **S112**

NS31SW36

BOREHOLE LOG

Contract No F6802
Location Maybole
Client Strathclyde Regional Council
Method of Boring Percussion
Diameter of Borehole 150mm

Sheet 2 of 2
Chainage
Ground Level 79.79 m.A.O.D.
Date 2/5/86-7/5/86

Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D.%	Daily Progress
Stiff grey and brown very sandy silty CLAY with some gravel and occasional cobbles and boulders					11.00 (-)		
					12.50 (46)		
					14.20 C	60for 75mm	
		14.70	65.09				
Light brown moderately weathered fine medium grained SANDSTONE weak							
		15.20	64.59		15.20 S	96for 150mm	*

Type of Sample

- Is S.P.T.
- Undisturbed
- Ic. C.P.T.
- Vane
- O Jar
- Δ Water
- Bulk
- Piezometer

Remarks (Observations of Ground Water etc.)

*Seating blows only. () Undisturbed sample blows.

Norwest Holst Soil Engineering Ltd.

NS31SW37

Contract No. F6802

BOREHOLE LOG

Borehole No **S113**

Location: Maybole

Client: Strathclyde Regional Council

Method of Boring: Percussion

Diameter of Borehole: 150mm

231970
612210

Sheet 1 of 2

Chainage:

Ground Level: 78.96 m.A.O.D.

Date: 8/5/86

Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D.%	Daily Progress
Brown clayey sandy TOPSOIL		0.80	78.16		0.50 (18)		
Firm orange brown and brown very sandy CLAY		1.30	77.66		1.50 (30)		
Firm greyish brown very sandy silty CLAY with some gravel and occasional cobbles and boulders					2.50 (40)		
.... below 3.00m becoming stiff					3.50 (40)		
					4.50 s	83for 150mm	
					5.50 (40)		
.... 7.30 boulder					6.50 (42)		
					8.00 (40)		
					9.50 (46)		

Type of Sample

- Is S.P.T.
- Undisturbed
- Ic. C.P.T.
- Vane
- O Jar
- Water
- Bulk
- Piezometer

Remarks (Observations of Ground Water etc.)

() undisturbed sample blows.

Groundwater: borehole dry during drilling. Final standing level no casing 15.70m

Norwest Holst Soil Engineering Ltd.

Borehole No S113

NS31SW37

Contract No. F6802

BOREHOLE LOG

Location...Mayhole

Client...Strathclyde Regional Council

Method of Boring...Percussion

Diameter of Borehole...150mm

Sheet...2...of...2...

Chainage...

Ground Level...78.96... m.A.O.D.

Date...8/5/86

Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D.%	Daily Progress
Stiff brown very sandy silty CLAY with some gravel and occasional cobbles and boulders					11.00 (48) 12.50 (60) 14.00 (56)		
		15.80	63.16		15.50 (60)	NO RECOVERY	
Light brown well cemented slightly weathered fine to coarse grained SANDSTONE moderately weak		16.30	62.66		16.30 S	60for no Penetration	

Type of Sample

- Is S.P.T.
- Ic. C.P.T.
- O Jar
- ● Bulk
- ■ Undisturbed
- × Vane
- Δ Water
- P Piezometer

Remarks (Observations of Ground Water etc.)

Water levels are subject to seasonal or tidal variations and should not be taken as constant

NS31SW38

Norwest Holst Soil Engineering Ltd.

Borehole No **S114**

BOREHOLE LOG

Contract No. F6802
Location Maybole
Client Strathclyde Regional Council
Method of Boring Percussion
Diameter of Borehole 150mm

232080
612420

Sheet 1 of 1
Chainage
Ground Level 70.80 m.A.O.D.
Date 9/5/86

Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D.%	Daily Progress
Brown and orange brown friable very sandy TOPSOIL		1.30	69.50		0.50 (18)		
Firm brown and orange brown friable very sandy silty CLAY		1.80	68.50		1.50 (30)		
Stiff greyish brown very sandy silty CLAY with some fine medium gravel and occasional boulders ...2.30m boulder driven to 5.00m. Borehole abandoned and repositioned near by as 114A		5.00	65.30		2.50 C 3.20 4.20	86" for 150mm	

Type of Sample

Is S.P.T. ▮ Undisturbed
Ic. C.P.T. × Vane
O Jar △ Water
● Bulk ▯ Piezometer

Remarks (Observations of Ground Water etc.)
() undisturbed sample blows
Ground water - borehole dry during drilling.

Norwest Holst Soil Engineering Ltd.

Borehole No **S114a**

NS31SW39

BOREHOLE LOG

Contract No. T6802
Location Maybole
Client Strathclyde Regional Council
Method of Boring Percussion
Diameter of Borehole 150mm

232080
612420

Sheet 1 of 2
Chainage
Ground Level 70.30 m.A.O.D.
Date 9/5/86

Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D.%	Daily Progress
Brown and orange brown friable very sandy TOPSOIL		0.80	69.50				
Firm brown and orange brown friable very sandy sitly CLAY		1.80	68.50				
Stiff greyish brown very sandy silty CLAY with some gravel and occasional cobbles.					2.50 (32) 3.50 (32) 4.50 (42) 5.50 (40) 6.50 (40) 7.50 (56) 9.00 (46)		
.... below 7.50m becoming very stiff							

Type of Sample

Is S.P.T. ■ Undisturbed
Ic. C.P.T. × Vane
O Jar Δ Water
● Bulk ▣ Piezometer

Remarks (Observations of Ground Water etc.)

() undisturbed sample blows

Ground Water: Borehole dry during drilling

NS31SW39

Norwest Holst Soil Engineering Ltd.

Borehole No **S114a**

BOREHOLE LOG

Contract No. F6802
Location Maybole
Client Strathclyde Regional Council
Method of Boring Percussion
Diameter of Borehole 150mm

Sheet 2 of 2
Chainage
Ground Level 70.30 m.A.O.D.
Date 9/5/86

Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D.%	Daily Progress
Very stiff greyish brown very sandy sitly CLAY with some gravel and occasional cobbles					10.50 s	"56"	
					11.50 s	"64"	
		12.00	58.30				

Type of Sample

Is S.P.T. ■ Undisturbed
Ic. C.P.T. × Vane
O Jar △ Water
● Bulk ▮ Piezometer

Remarks (Observations of Ground Water etc.)

NS31SW15

Norwest Holst Soil Engineering Ltd.

Trial Pit No. **219**

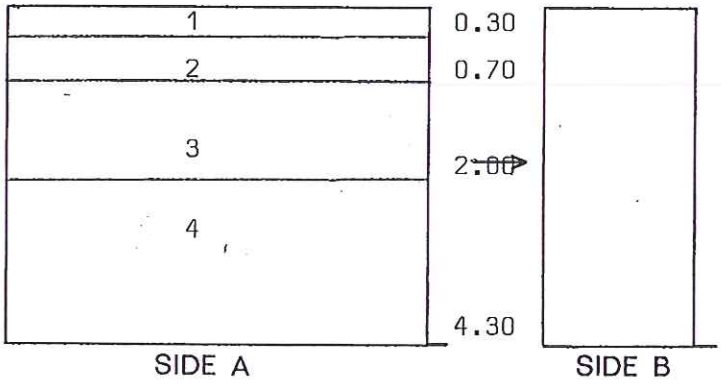
TRIAL PIT LOG

Contract No. F6802
Location Maybole
Client Strathclyde Regional Council
Excavation Plant MS 120
Dimensions (l x b x h) 4.0 x 1.0 x 4.3m

230450
610620

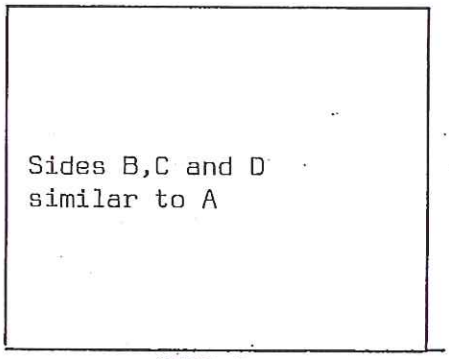
Chainage .....
Ground Level 103.20 m.A.O.D.
Date 29/4/86

ELEVATIONS:—

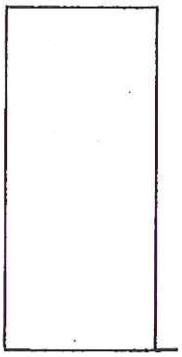


SIDE A

SIDE B

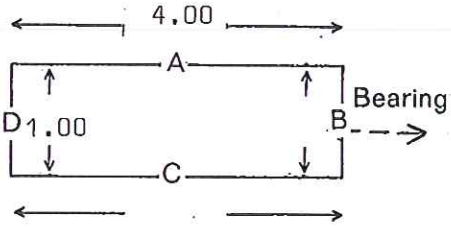


SIDE C



SIDE D

PLAN (Not to scale)



SAMPLES

No. & Type	Depth m.
B&J	1.20

No.	Depth m.	STRATA DESCRIPTION	Cv/Cp kN/m²
1	0.00-0.30	Dark brown sandy TOPSOIL	
2	0.30-0.70	Firm brown friable sandy silty CLAY with occasional gravel	
3	0.70-2.00	Firm light brown very sandy silty CLAY with frequent angular sandstone cobbles and boulders	
4	2.00-4.30	Angular brown SANDSTONE cobble sized fragments moderately weak to moderately strong thinly bedded with much clayey sand matrix (weathered bedrock). In places becoming clayey SAND matrix with sandstone fragments .. below 4.10m becoming moderately to slightly weathered SANDSTONE moderately strong No further progress below 4.30m possible	

NOTES Cv/Cp: Approximate value of undrained shear strength from hand vane/penetrometer
Groundwater: Dry
Pumping: -
Supports/Stability: stable

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