

Cottam Solar Project

Environmental Statement Appendix 11.1: Geo-Environmental Risk Assessment Cottam 1 Part 3 of 3

Prepared by: Delta Simons
January 2023

PINS reference: EN010133
Document reference: APP/C6.3.11.1
APFP Regulation 5(2)(a)



Historical Land Use Information (1:10,000)

General

- ▭ Specified Site
- ▭ Specified Buffer(s)
- X 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	◆	—	

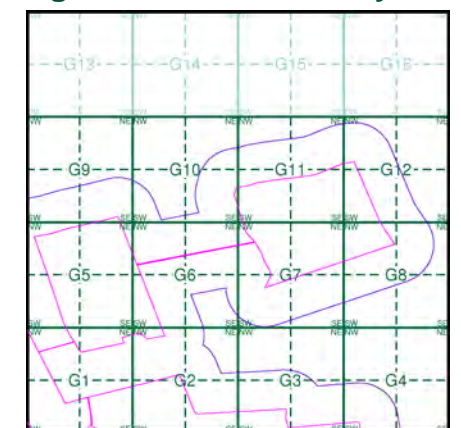
Historical Land Use

	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 G

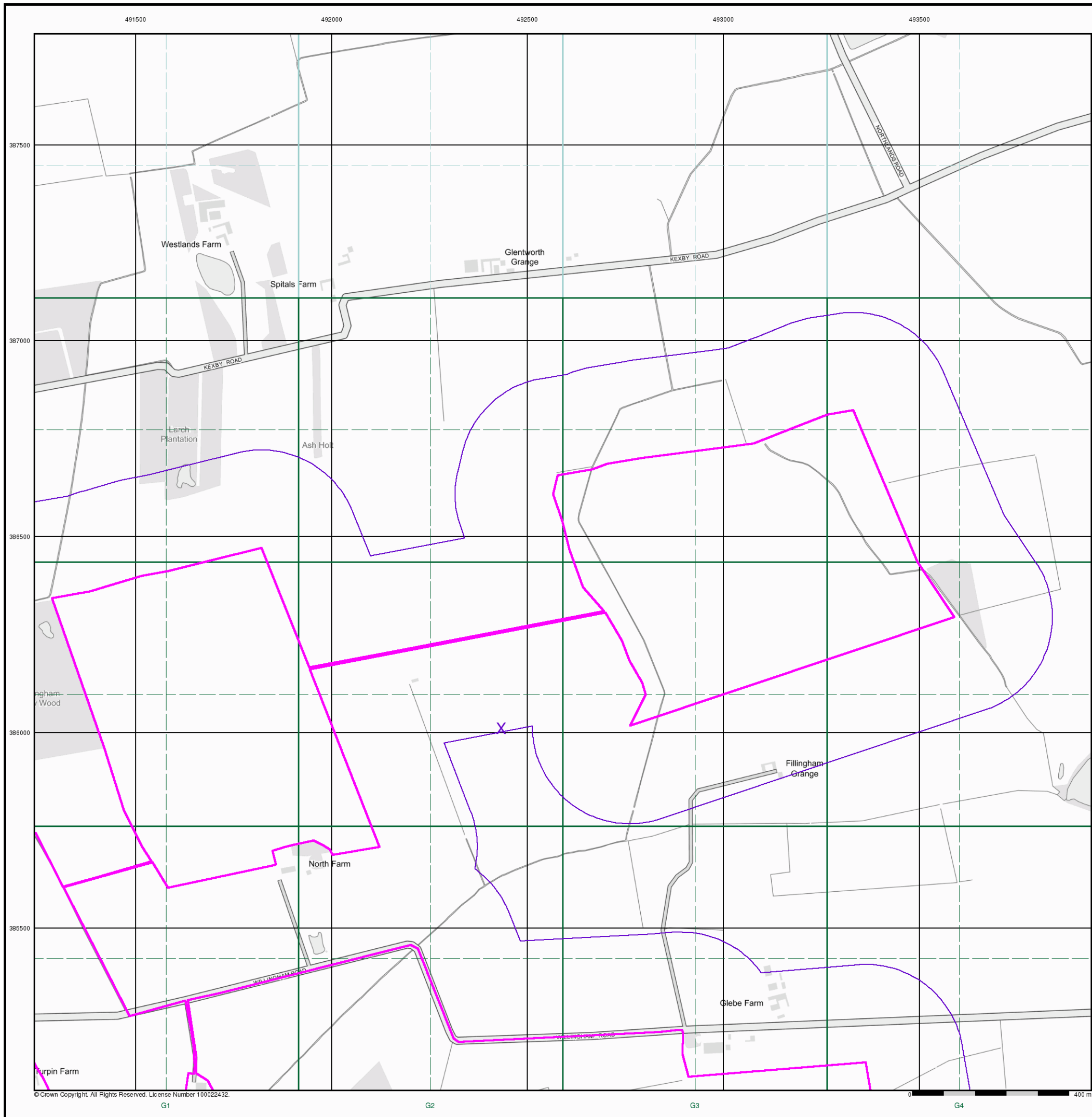


Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Search Buffer (m): 250

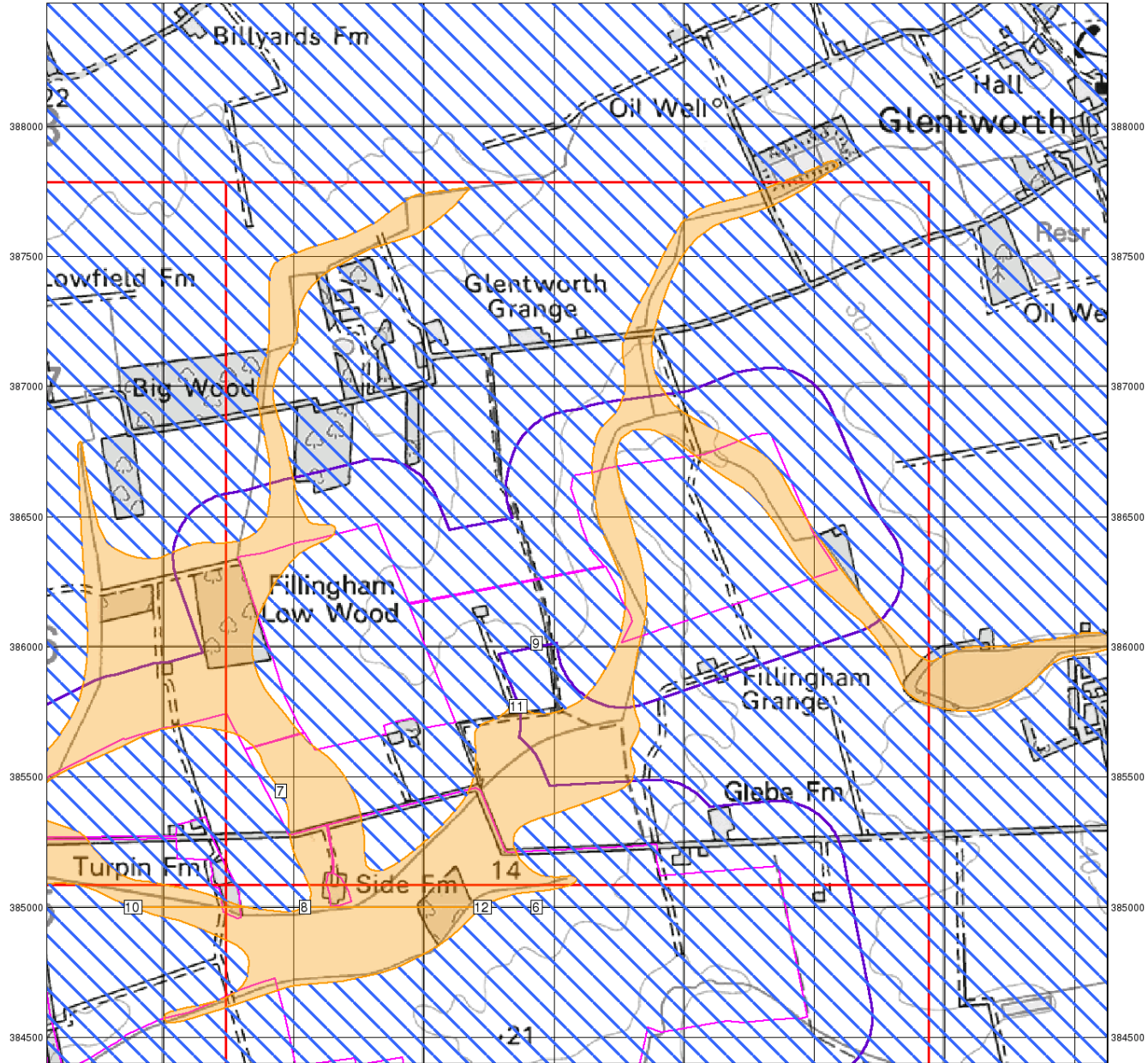
Site Details

Cottam 1



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491000 491500 492000 492500 493000 493500 494000 494500



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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

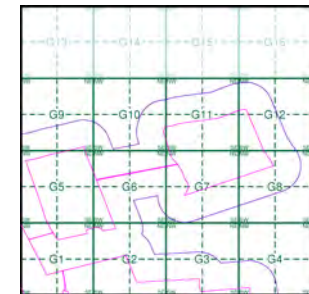
Potential for Collapsible Ground Stability Hazards

- 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 G



Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Search Buffer (m): 250

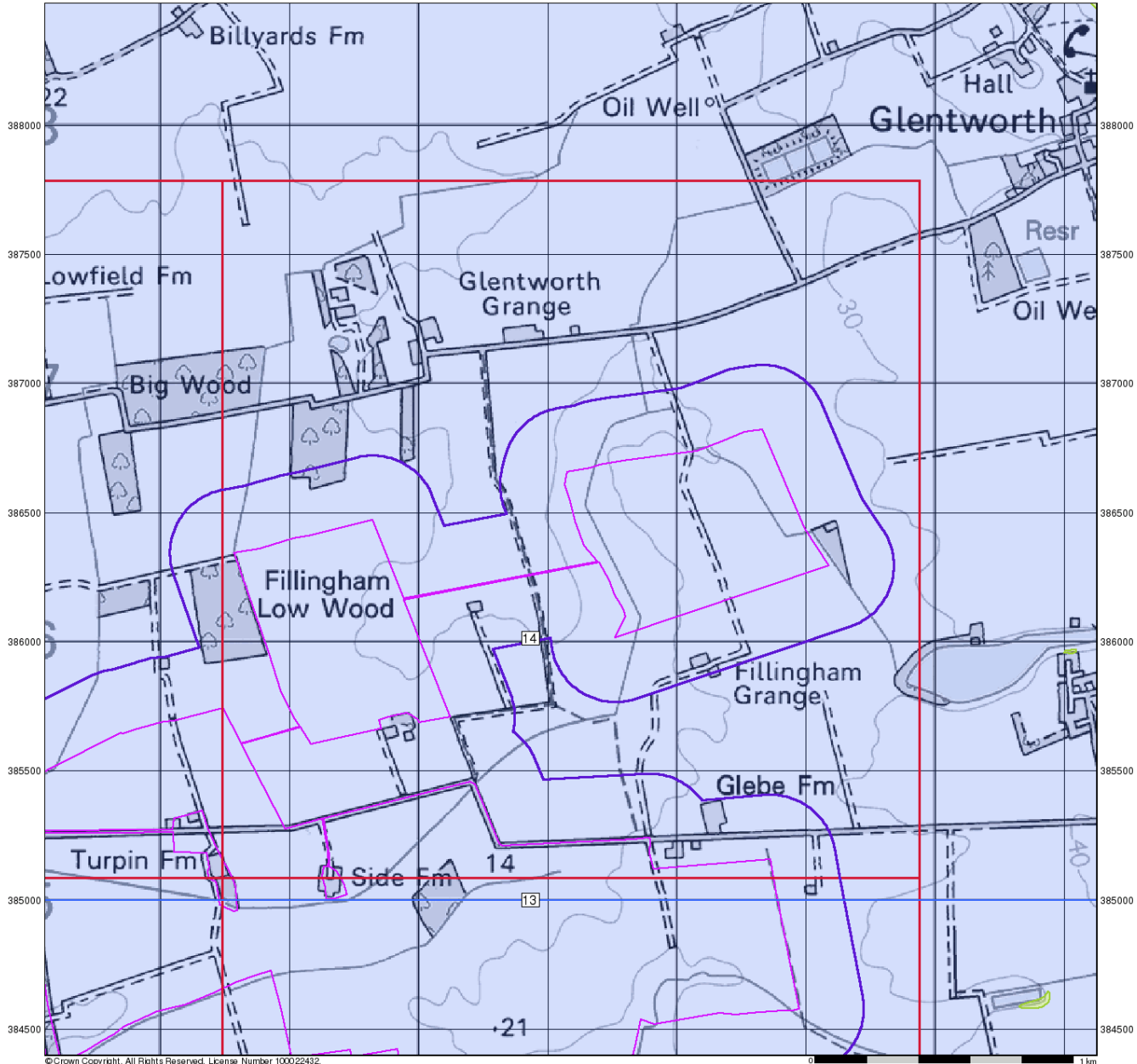
Site Details

Cottam 1



Tel: [Redacted]
 Fax: [Redacted]
 Web: [Redacted]

491000 491500 492000 492500 493000 493500 494000 494500



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0 1 km



Ground Stability Data (1:50,000)

General

- ◇ Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point
- Slice
- B Map ID

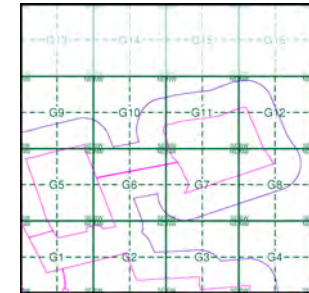
Potential for Landslide Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Potential for Ground Dissolution Stability Hazards

- ▨ High
- ▨ Moderate
- ▨ Low
- ▨ Very Low

Mining and Ground Stability - Slice G



Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Search Buffer (m): 250

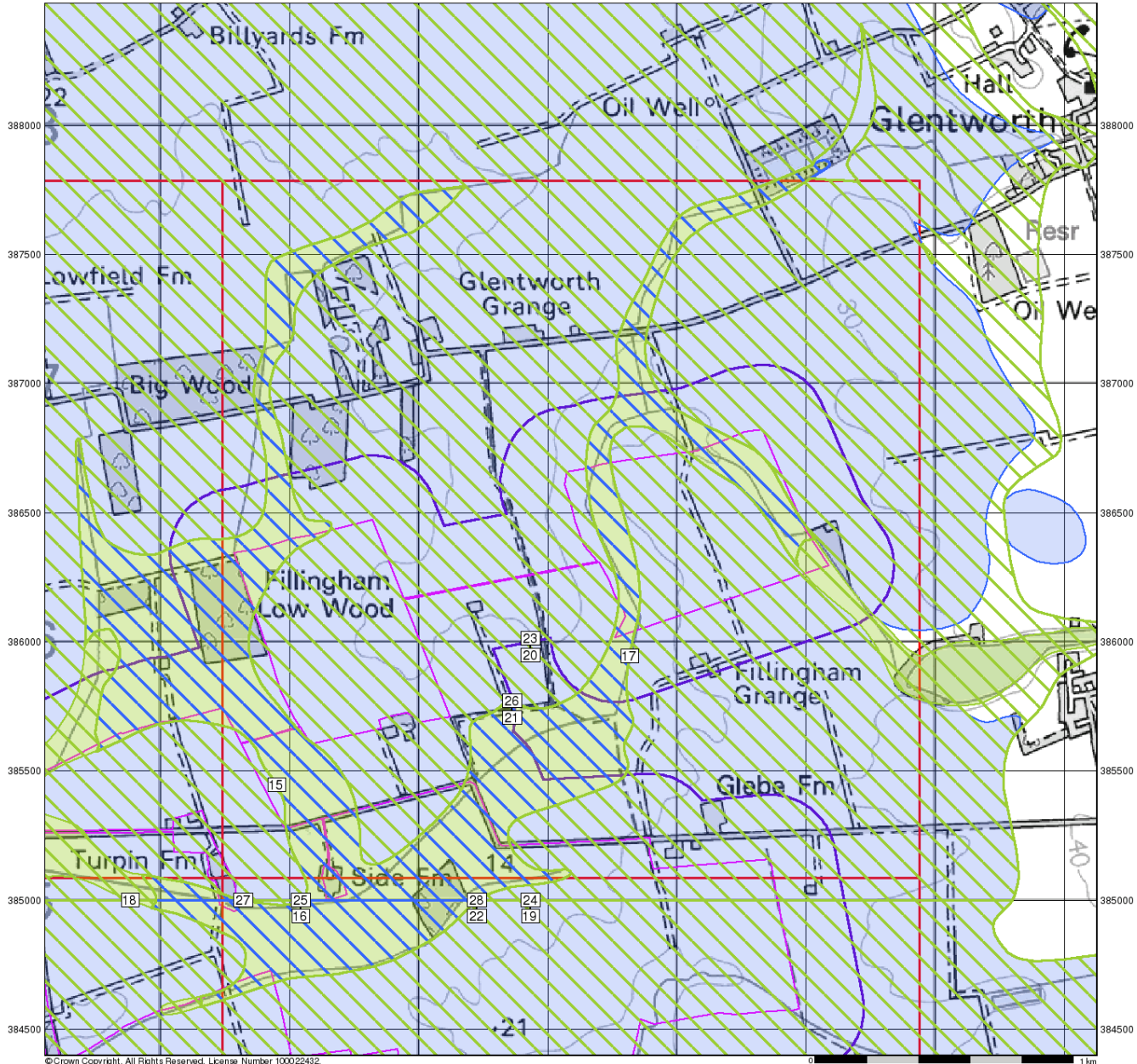
Site Details

Cottam 1



Tel: 0844 [redacted]
 Fax: [redacted]
 Web: [redacted]

491000 491500 492000 492500 493000 493500 494000 494500



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Ground Stability Data (1:50,000)

General

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

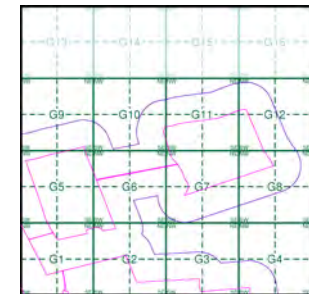
Potential for Running Sand Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Mining and Ground Stability - Slice G



Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Search Buffer (m): 250

Site Details

Cottam 1



Tel: [Redacted]
 Fax: [Redacted]
 Web: [Redacted]

Envirocheck[®] Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:

287330989_1_1

Customer Reference:

21-1088.02

National Grid Reference:

492430, 386010

Slice:

G

Site Area (Ha):

884.45

Search Buffer (m):

250

Site Details:

Cottam 1

Client Details:

Mr A Howells
Delta Simons
3 Henley Office Park
Doddington Road
Lincoln
LN6 3QR

Report Section and Details	Page Number
Summary	-
<p>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.</p> <p>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).</p>	
Mining and Natural Cavities Data	-
<p>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.</p> <p>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.</p>	
Historical Land Use Information (1:2,500)	1
<p>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.</p> <p>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.</p>	
Historical Land Use Information (1:10,000)	-
<p>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.</p> <p>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.</p>	
Ground Stability Data (1:50,000)	2
<p>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.</p>	
Historical Map List	4
<p>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.</p>	
Data Currency	6
Data Suppliers	7
Useful Contacts	8

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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

The Mining Instability data was obtained on licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The supplied Mining Instability data is derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Report Version v53.0

Data Type	Page Number	On Site	0 to 250m
Mining and Natural Cavities Data			
BGS Recorded Mineral Sites			
Coal Mining Affected Areas			n/a
Man Made Mining Cavities			
Mining Instability			n/a
Natural Cavities			
Non Coal Mining Areas of Great Britain			
Potential Mining Areas			
Historical Land Use Information (1:2,500)			
Extractive Industries or Potential Excavations from 1855-1909 (100m)			
Extractive Industries or Potential Excavations from 1893-1915 (100m)			
Extractive Industries or Potential Excavations from 1906-1937 (100m)			
Extractive Industries or Potential Excavations from 1924-1949 (100m)			
Extractive Industries or Potential Excavations from 1950-1980 (100m)	pg 1	2	3
Subterranean Features (100m)			
Historical Land Use Information (1:10,000)			
Air Shafts			
Disturbed Ground			
General Quarrying			
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)			
Ground Stability Data (1:50,000)			
CBSCB Compensation District			n/a
Brine Pumping Related Features			
Brine Subsidence Solution Area			
Potential for Collapsible Ground Stability Hazards	pg 2	Yes	
Potential for Compressible Ground Stability Hazards	pg 2	Yes	
Potential for Ground Dissolution Stability Hazards	pg 2	Yes	
Potential for Landslide Ground Stability Hazards	pg 2	Yes	
Potential for Running Sand Ground Stability Hazards	pg 2	Yes	
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 3	Yes	
Salt Mining Related Features			

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Extractive Industries or Potential Excavations from 1950-1980 Use: Pond First Map Published 1974 Date: Last Map Published N/A Date:	G5SE (W)	0	-	491809 385934
2	Extractive Industries or Potential Excavations from 1950-1980 Use: Pond First Map Published 1974 Date: Last Map Published N/A Date:	G1SE (SW)	0	-	491620 385205
3	Extractive Industries or Potential Excavations from 1950-1980 Use: Pond First Map Published 1974 Date: Last Map Published N/A Date:	G7NW (NE)	11	-	492684 386280
4	Extractive Industries or Potential Excavations from 1950-1980 Use: Pond First Map Published 1974 Date: Last Map Published N/A Date:	G3SE (SE)	34	-	492933 385222
5	Extractive Industries or Potential Excavations from 1950-1980 Use: Pond First Map Published 1974 Date: Last Map Published N/A Date:	G2NW (SW)	35	-	491955 385455

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District 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.				
6	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	492434 385000
7	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	G1NW (SW)	0	1	491451 385445
8	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	491545 385000
9	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	G6SE (SW)	0	1	492434 386011
10	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	490883 385000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	G6SE (S)	0	1	492361 385770
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	492227 385000
11	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	G6SE (S)	0	1	492361 385770
12	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	492227 385000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	492434 385000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	G1NW (SW)	0	1	491451 385445
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	491545 385000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	G6SE (SW)	0	1	492434 386011
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	490883 385000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	G6SE (SW)	0	1	492434 386011
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	492434 385000
13	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	492434 385000
14	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	G6SE (SW)	0	1	492434 386011
15	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	G1NW (SW)	0	1	491451 385445

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	491545 385000
17	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	G7SW (E)	0	1	492818 385945
18	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	490883 385000
19	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	492434 385000
20	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	G6SE (SW)	0	1	492434 386011
21	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	G6SE (S)	0	1	492361 385770
22	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	492227 385000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SE)	0	1	494227 384918
23	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	G6SE (SW)	0	1	492434 386011
24	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	492434 385000
25	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	491545 385000
26	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	G6SE (S)	0	1	492361 385770
27	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	491320 385000
28	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	492227 385000

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






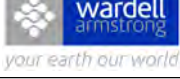

1:2,500	Mapsheet	Published Date
Ordnance Survey Plan	SK9185	1974
Ordnance Survey Plan	SK9185	1974
Ordnance Survey Plan	SK9185	1974
Ordnance Survey Plan	SK9185	1974
Ordnance Survey Plan	SK9186	1974
Ordnance Survey Plan	SK9186	1974
Ordnance Survey Plan	SK9186	1974
Ordnance Survey Plan	SK9186	1974
Ordnance Survey Plan	SK9187	1974
Ordnance Survey Plan	SK9187	1974
Ordnance Survey Plan	SK9285	1974
Ordnance Survey Plan	SK9285	1974
Ordnance Survey Plan	SK9285	1974
Ordnance Survey Plan	SK9285	1974
Ordnance Survey Plan	SK9286	1974
Ordnance Survey Plan	SK9286	1974
Ordnance Survey Plan	SK9286	1974
Ordnance Survey Plan	SK9286	1974
Ordnance Survey Plan	SK9287	1974
Ordnance Survey Plan	SK9287	1974
Ordnance Survey Plan	SK9385	1974
Ordnance Survey Plan	SK9385	1974
Ordnance Survey Plan	SK9385	1974
Ordnance Survey Plan	SK9385	1974
Ordnance Survey Plan	SK9386	1974
Ordnance Survey Plan	SK9386	1974
Ordnance Survey Plan	SK9386	1974
Ordnance Survey Plan	SK9386	1974
Ordnance Survey Plan	SK9387	1974
Ordnance Survey Plan	SK9387	1974

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

1:10,560	Mapsheets	Published Date
Lincolnshire	043_SE	1891
Lincolnshire	044_SW	1891
Lincolnshire	051_NE	1891
Lincolnshire	052_NW	1891
Lincolnshire	043_SE	1907
Lincolnshire	044_SW	1907
Lincolnshire	051_NE	1907
Lincolnshire	052_NW	1907
Lincolnshire	043_SE	1947
Lincolnshire	044_SW	1947
Lincolnshire	051_NE	1947
Lincolnshire	052_NW	1947
Ordnance Survey Plan	SK98NW	1956
1:10,000	Mapsheets	Published Date
Ordnance Survey Plan	SK98NW	1979

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2021	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Man Made Mining Cavities Stantec UK Ltd	May 2021	Bi-Annually
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Natural Cavities Stantec UK Ltd	May 2021	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features Landmark Information Group Limited	February 2020	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	As notified
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Brine Subsidence Solution Area Johnson Poole & Bloomer	December 2020	Annual Rolling Update

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	
The Coal Authority	
Ove Arup	
Stantec UK Ltd	
Wardell Armstrong	
Johnson Poole & Bloomer	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: [REDACTED]
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: [REDACTED]

General

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

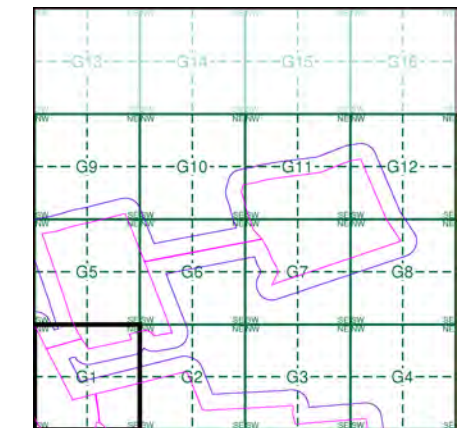
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 - 1960	▲	—	▨

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	■

Mining and Ground Stability - Segment G1

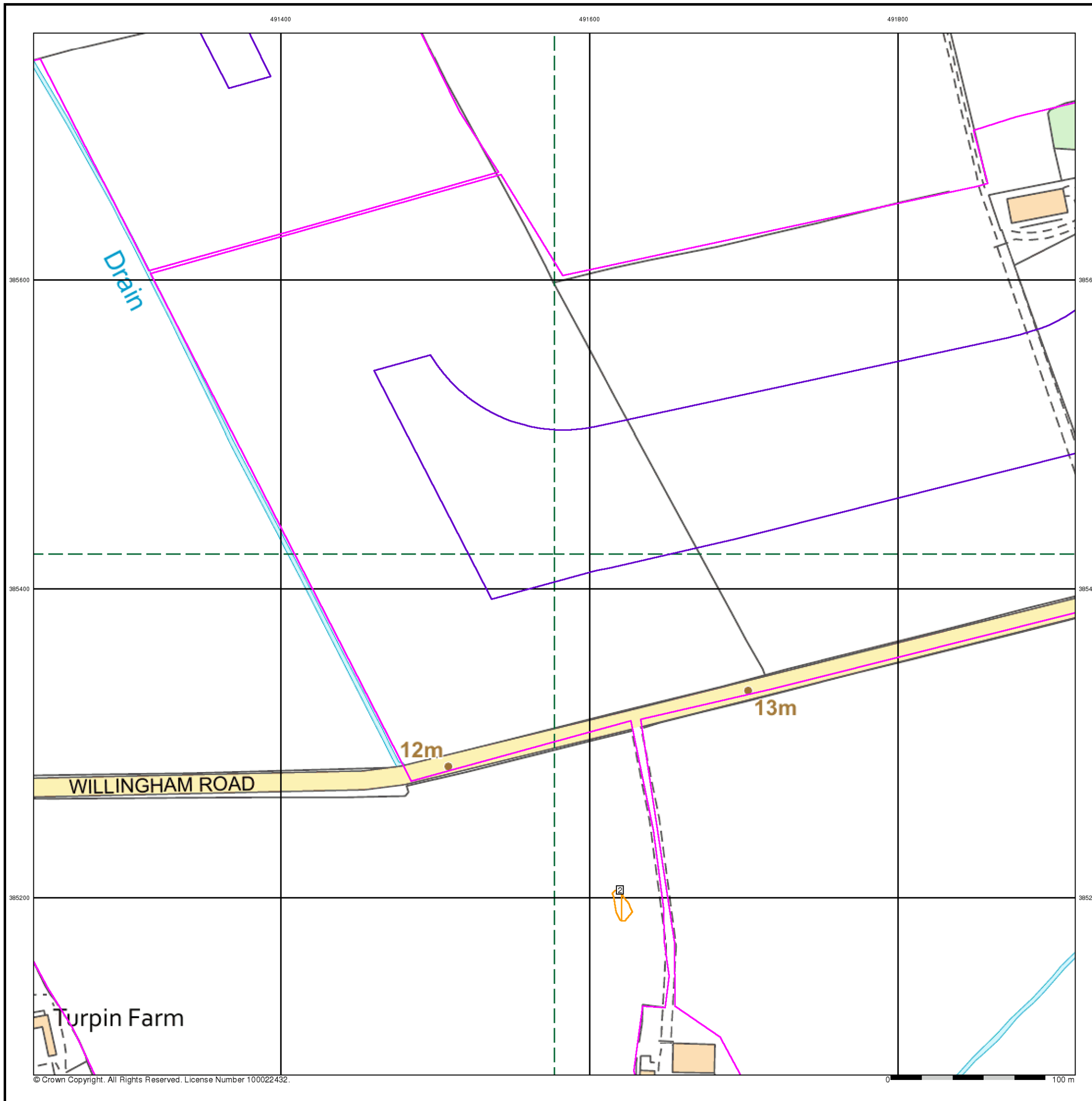


Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Plot Buffer (m): 100

Site Details

Cottam 1



General

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

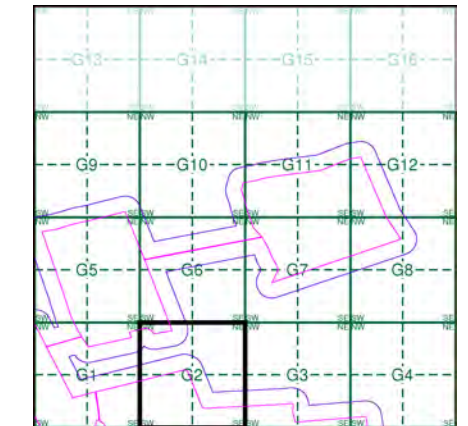
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 - 1960	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	■

Mining and Ground Stability - Segment G2

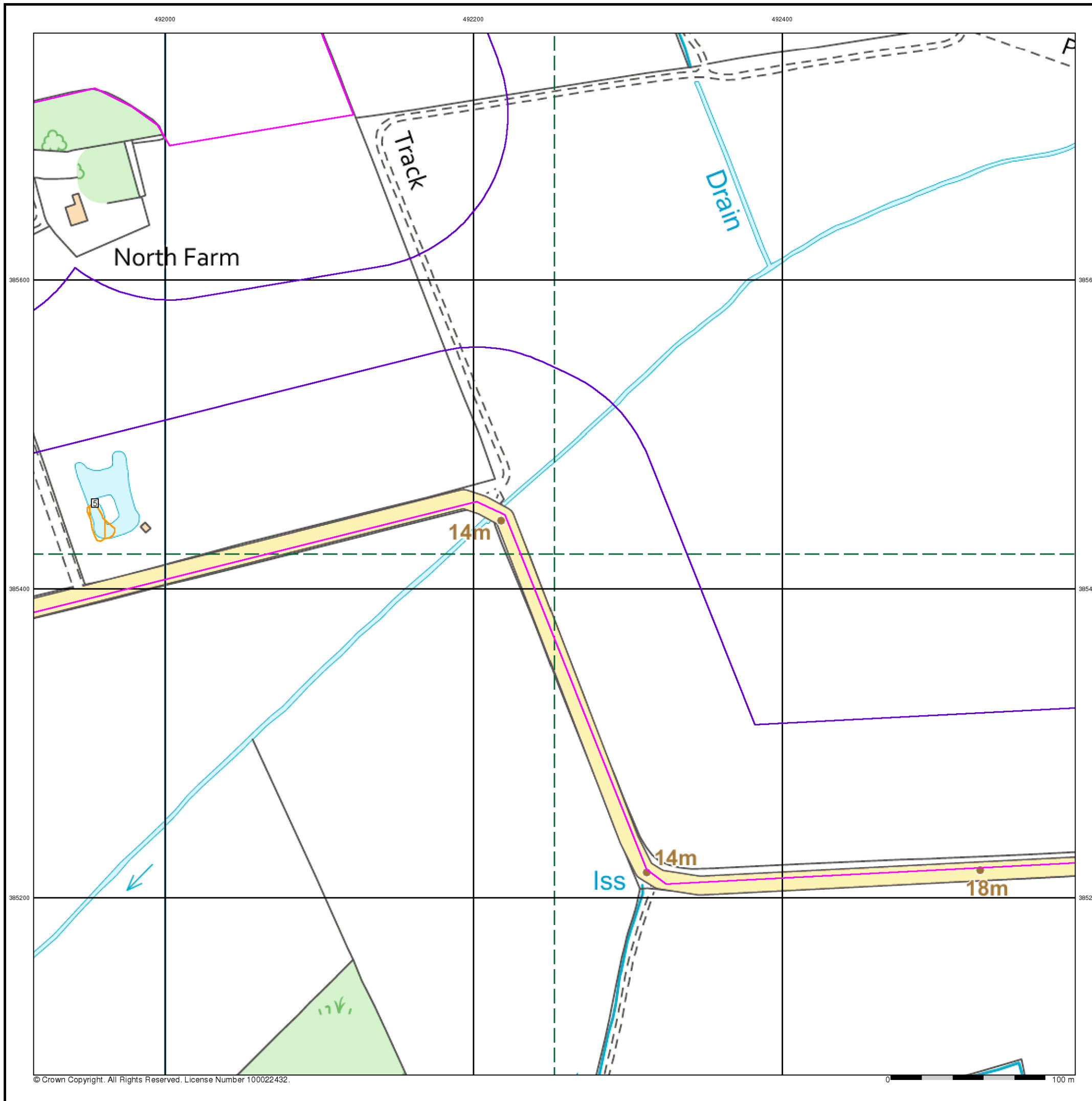


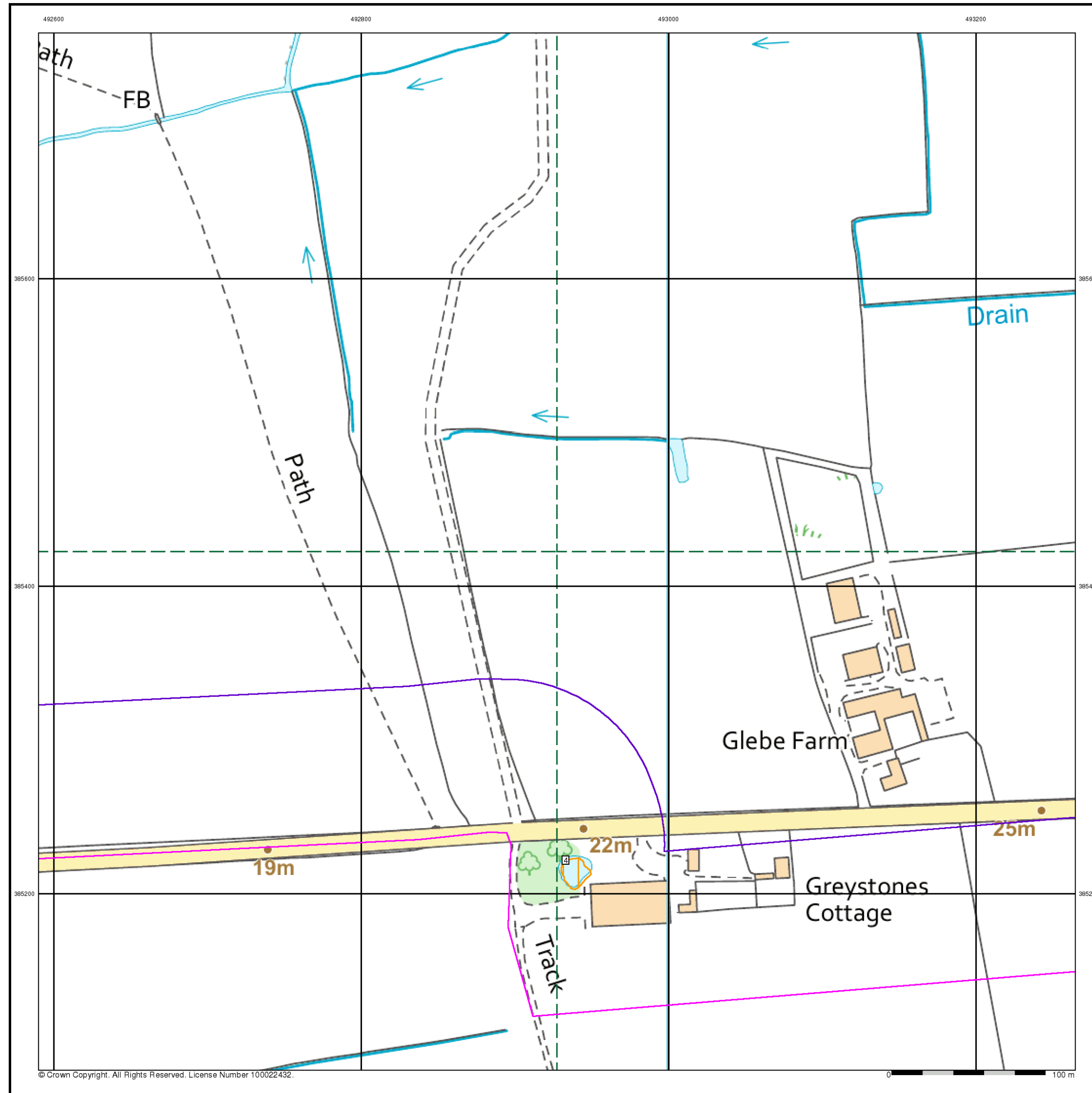
Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Plot Buffer (m): 100

Site Details

Cottam 1





Historical Land Use Information (1:2,500)

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

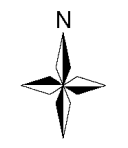
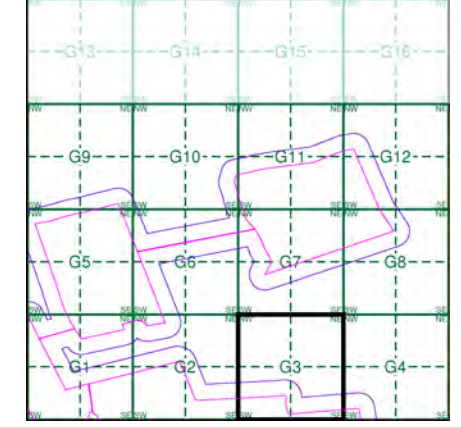
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 - 1960	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	■

Mining and Ground Stability - Segment G3



Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Plot Buffer (m): 100

Site Details
 Cottam 1



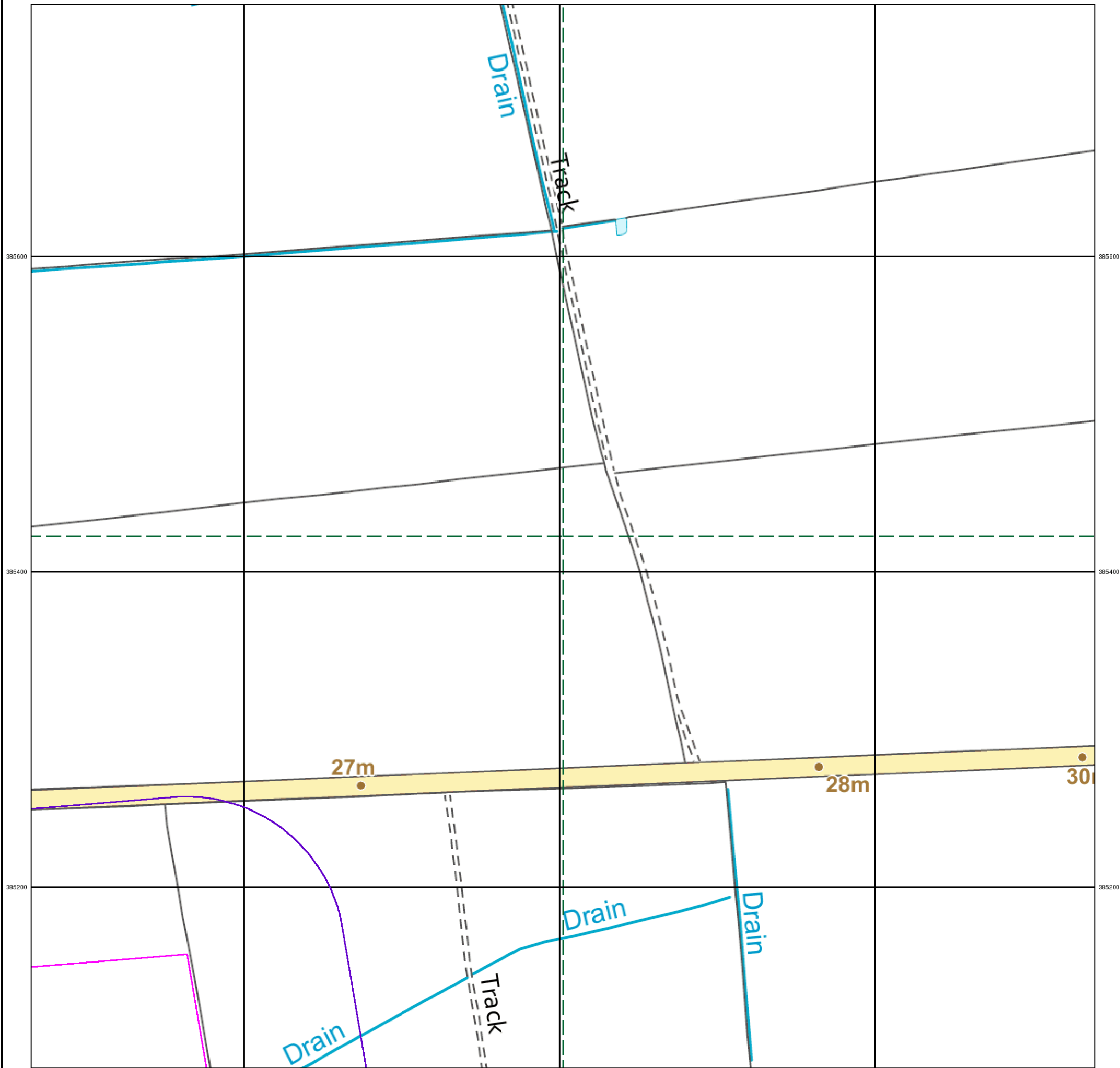
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493400

493600

493800



Historical Land Use Information (1:2,500)

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

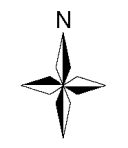
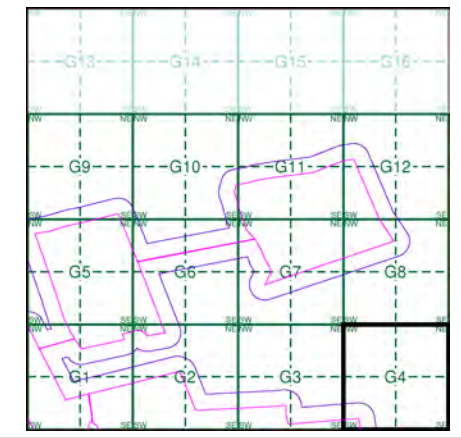
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 - 1960	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	■

Mining and Ground Stability - Segment G4



Order Details






Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Plot Buffer (m): 100

Site Details
 Cottam 1















Historical Land Use Information (1:2,500)

General

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

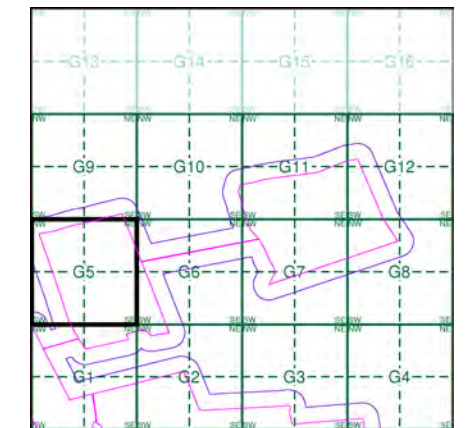
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 G5

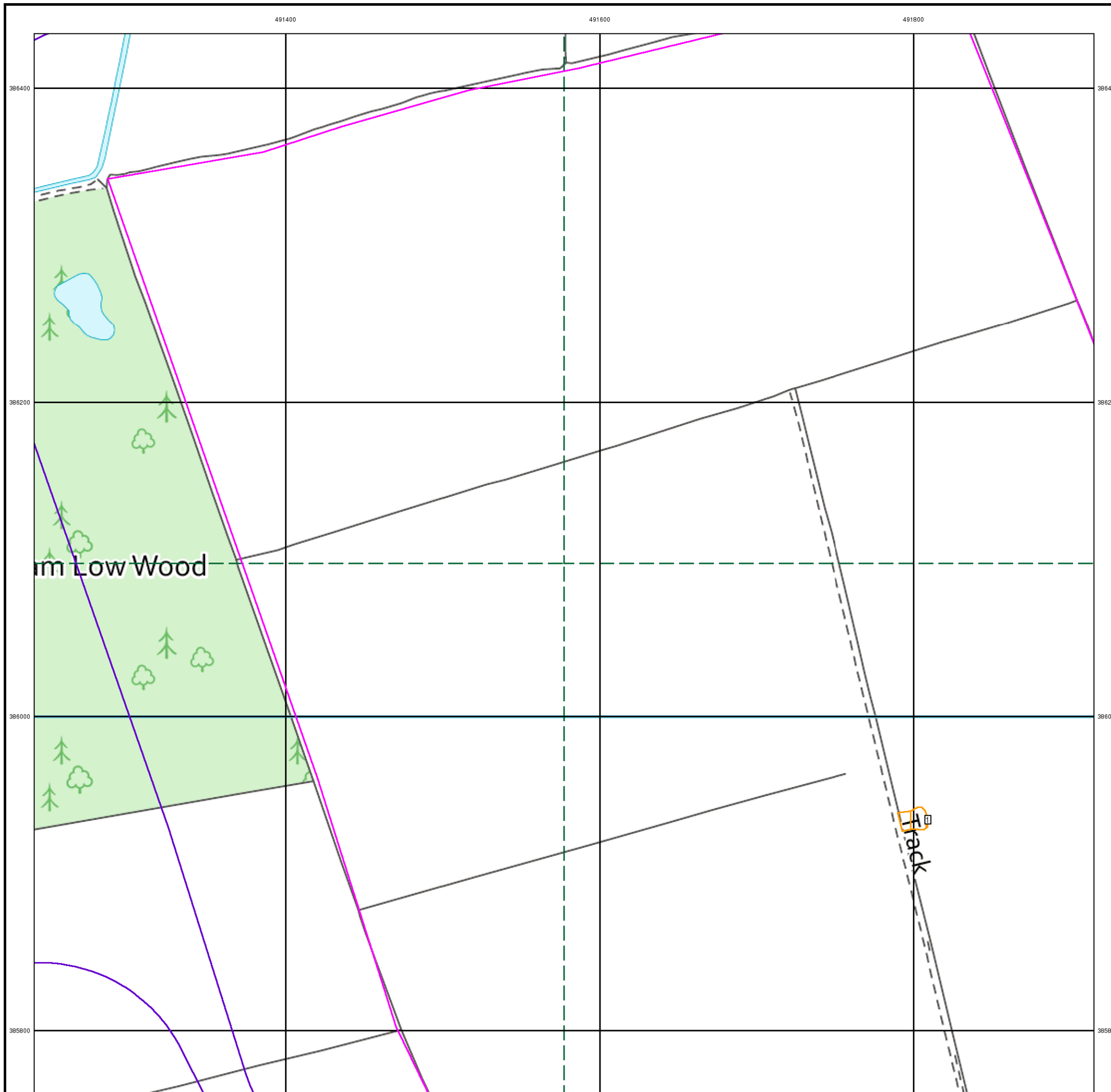


Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Plot Buffer (m): 100

Site Details

Cottam 1



General

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

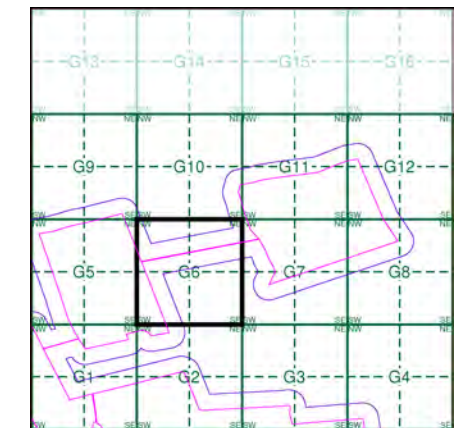
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 - 1960	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	■

Mining and Ground Stability - Segment G6

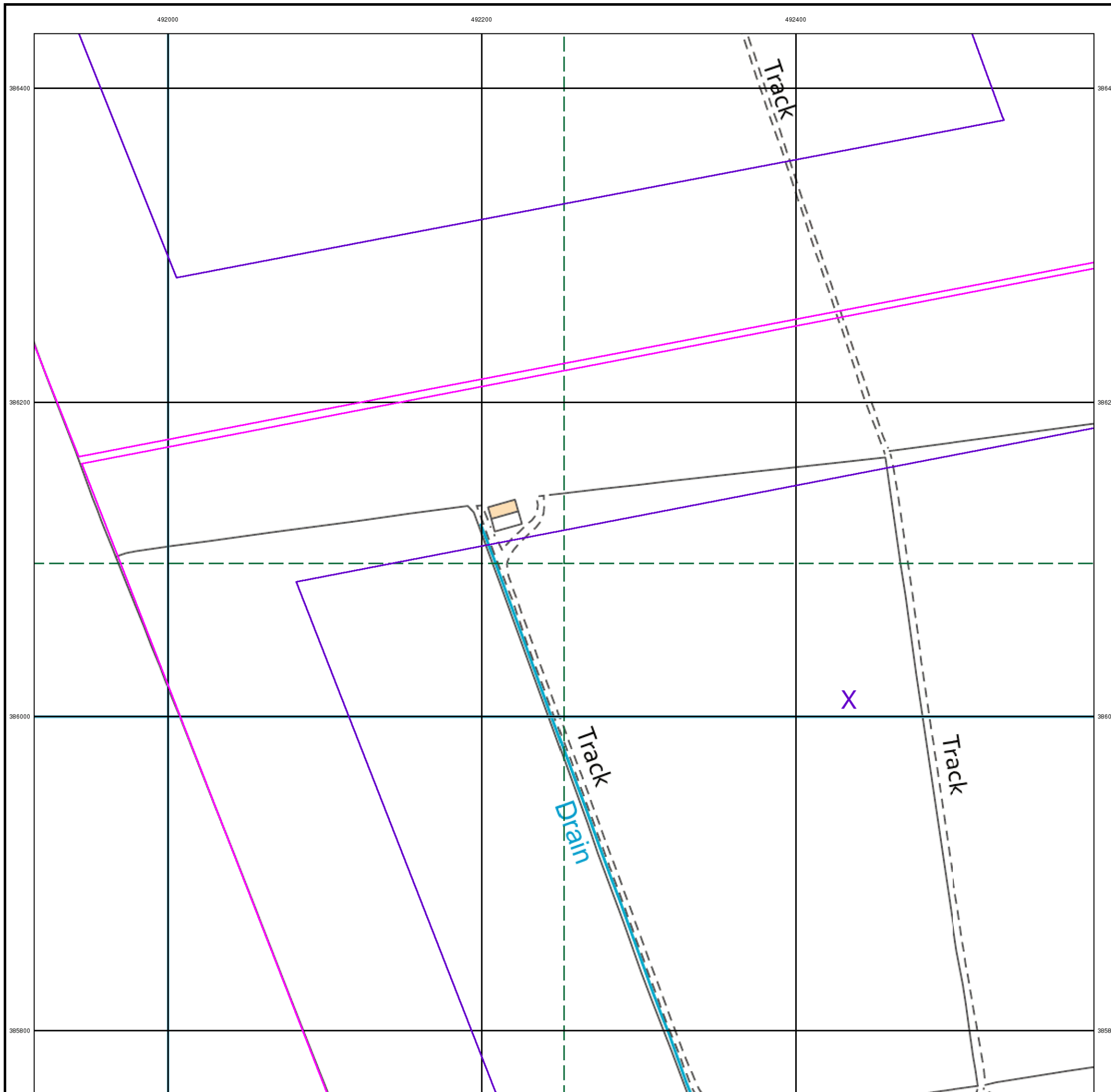


Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Plot Buffer (m): 100

Site Details

Cottam 1



General

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

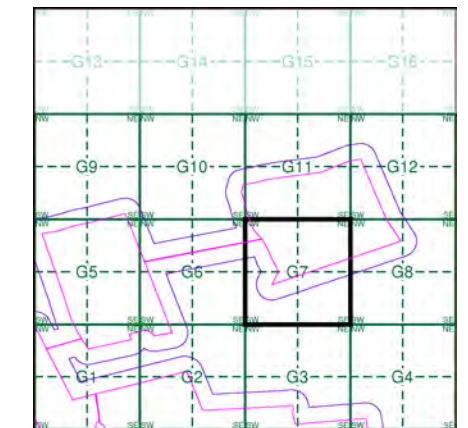
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 - 1960	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	■

Mining and Ground Stability - Segment G7

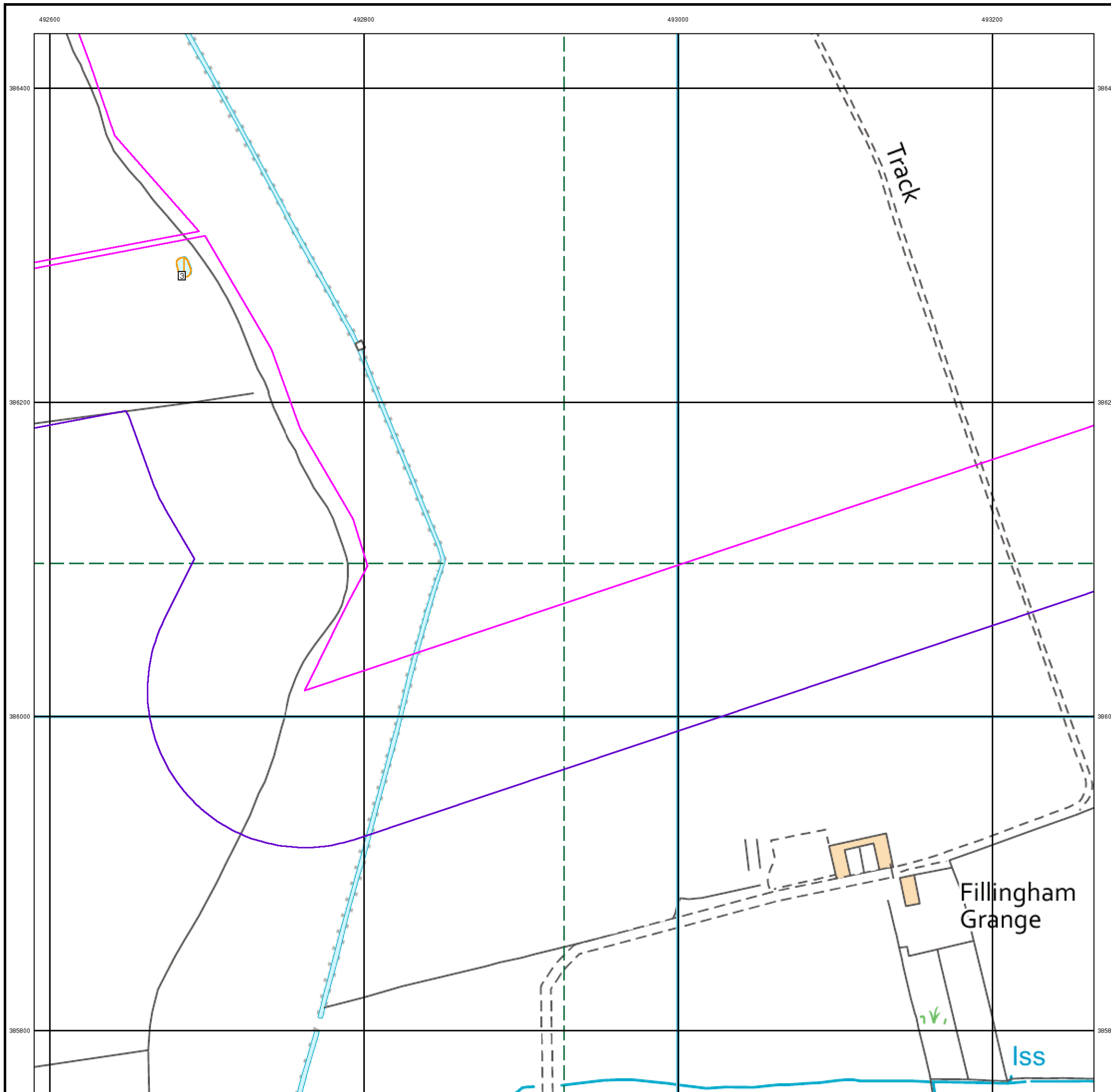


Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Plot Buffer (m): 100

Site Details

Cottam 1



General

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

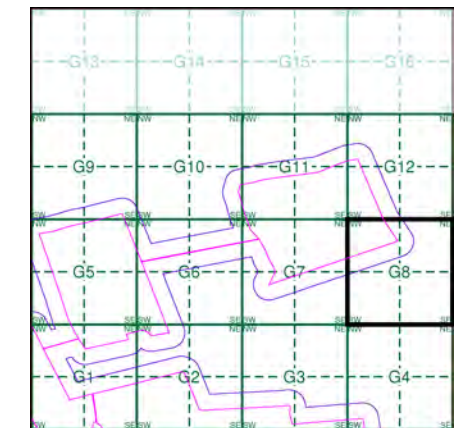
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 G8

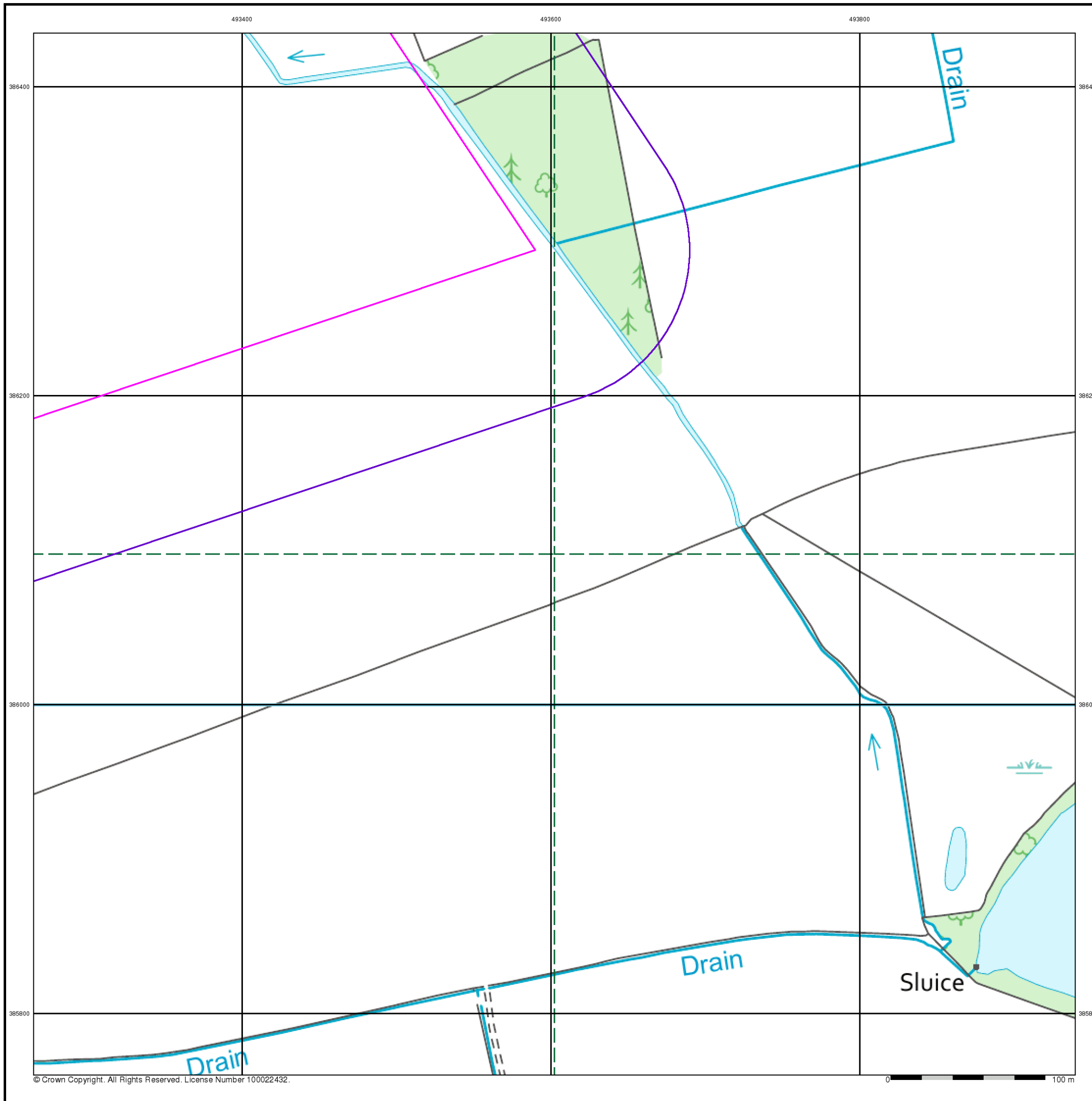


Order Details






Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Plot Buffer (m): 100

Site Details
















Cottam 1



General

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

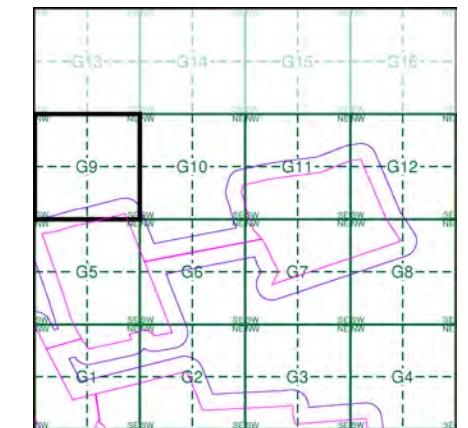
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 G9

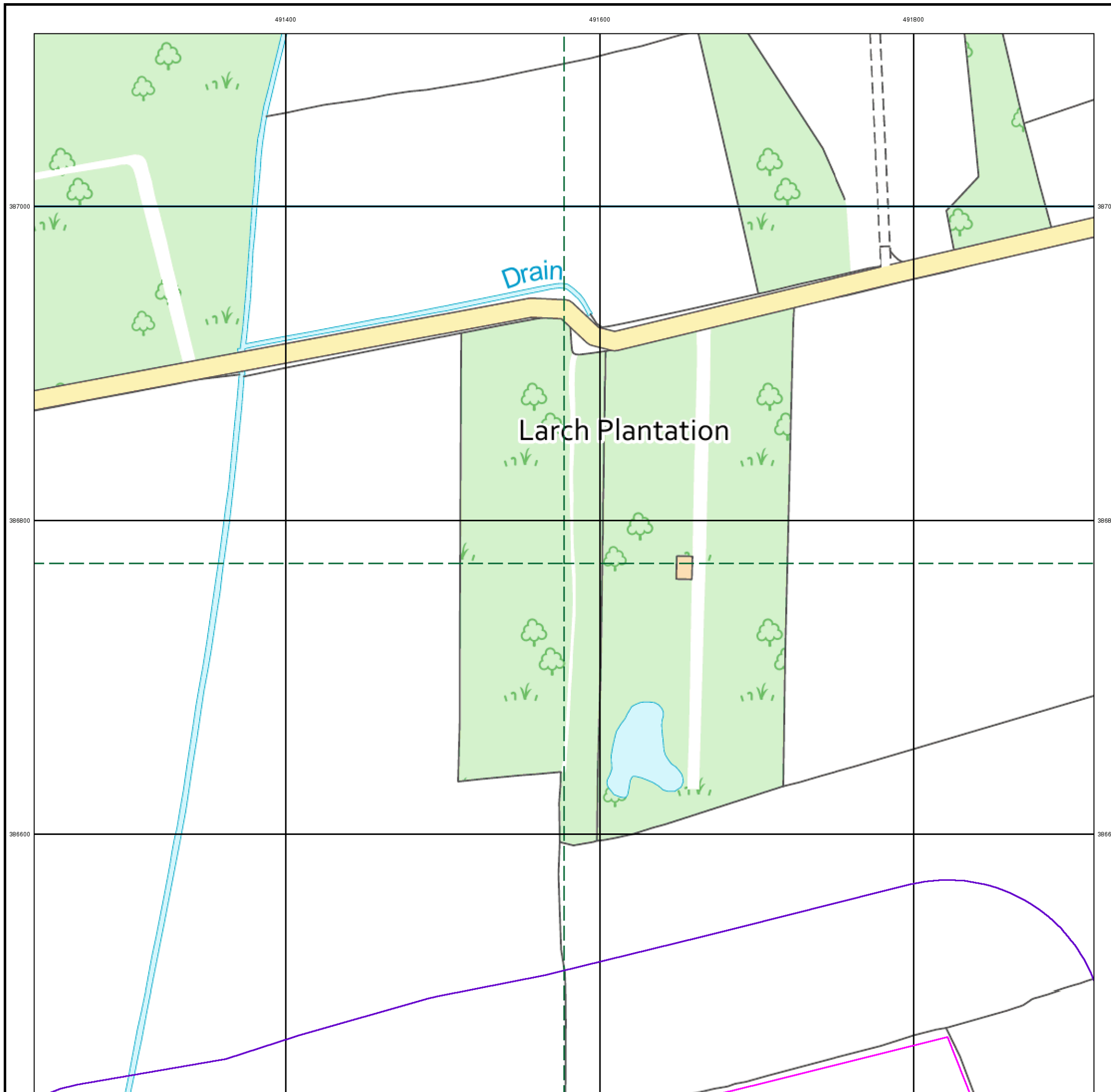


Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Plot Buffer (m): 100

Site Details

Cottam 1



General

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

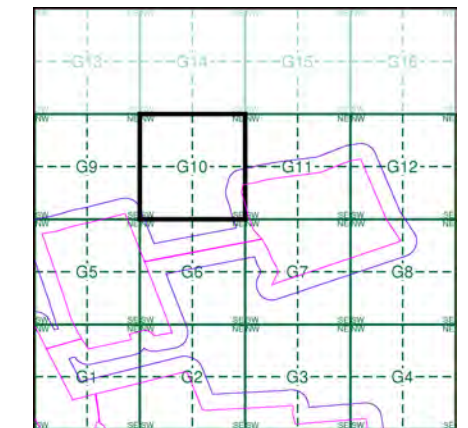
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 - 1960	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	■

Mining and Ground Stability - Segment G10

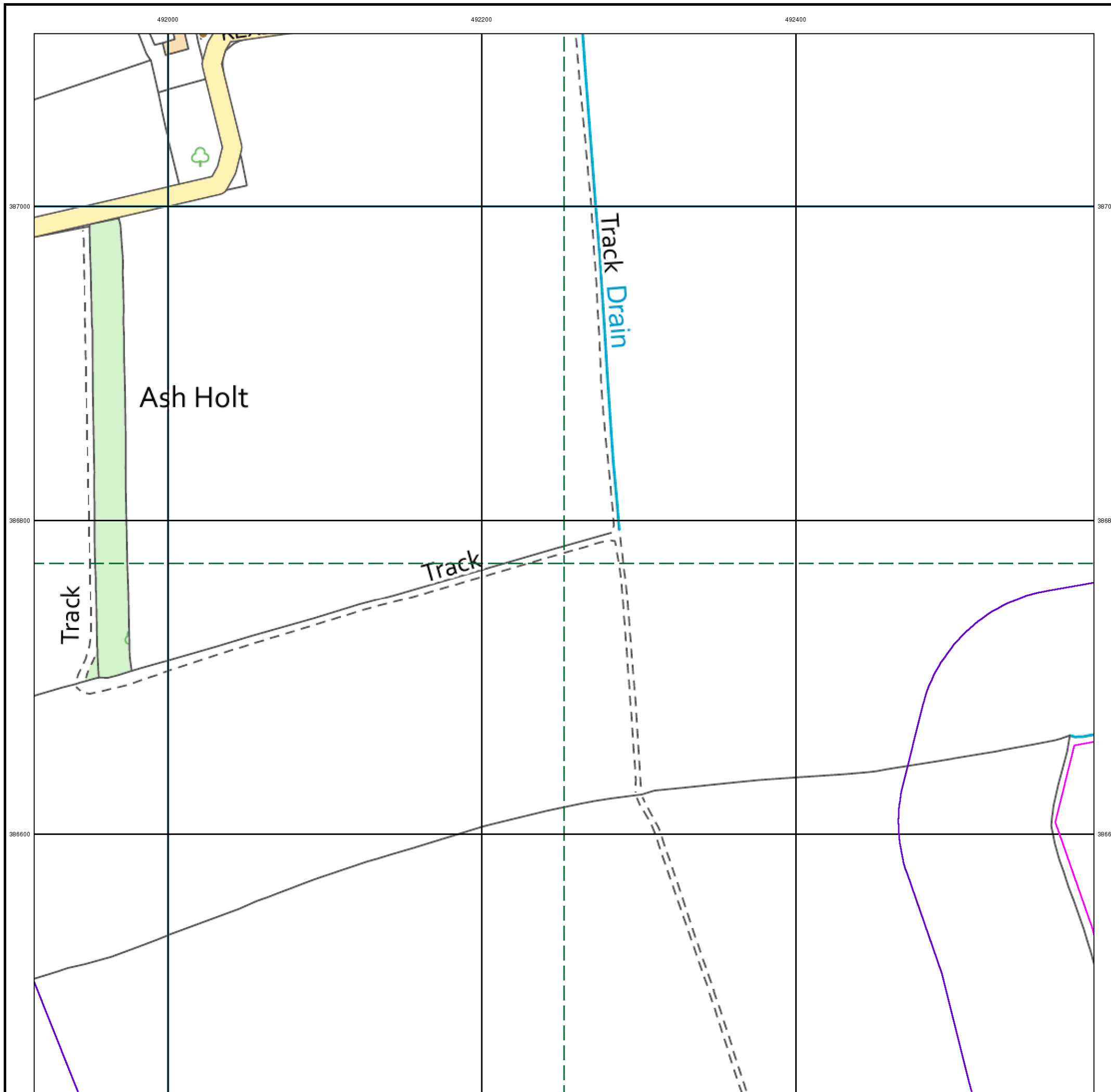


Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Plot Buffer (m): 100

Site Details

Cottam 1



General

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

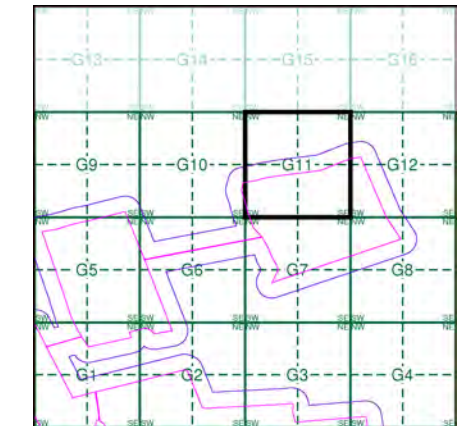
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 - 1960	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	■

Mining and Ground Stability - Segment G11

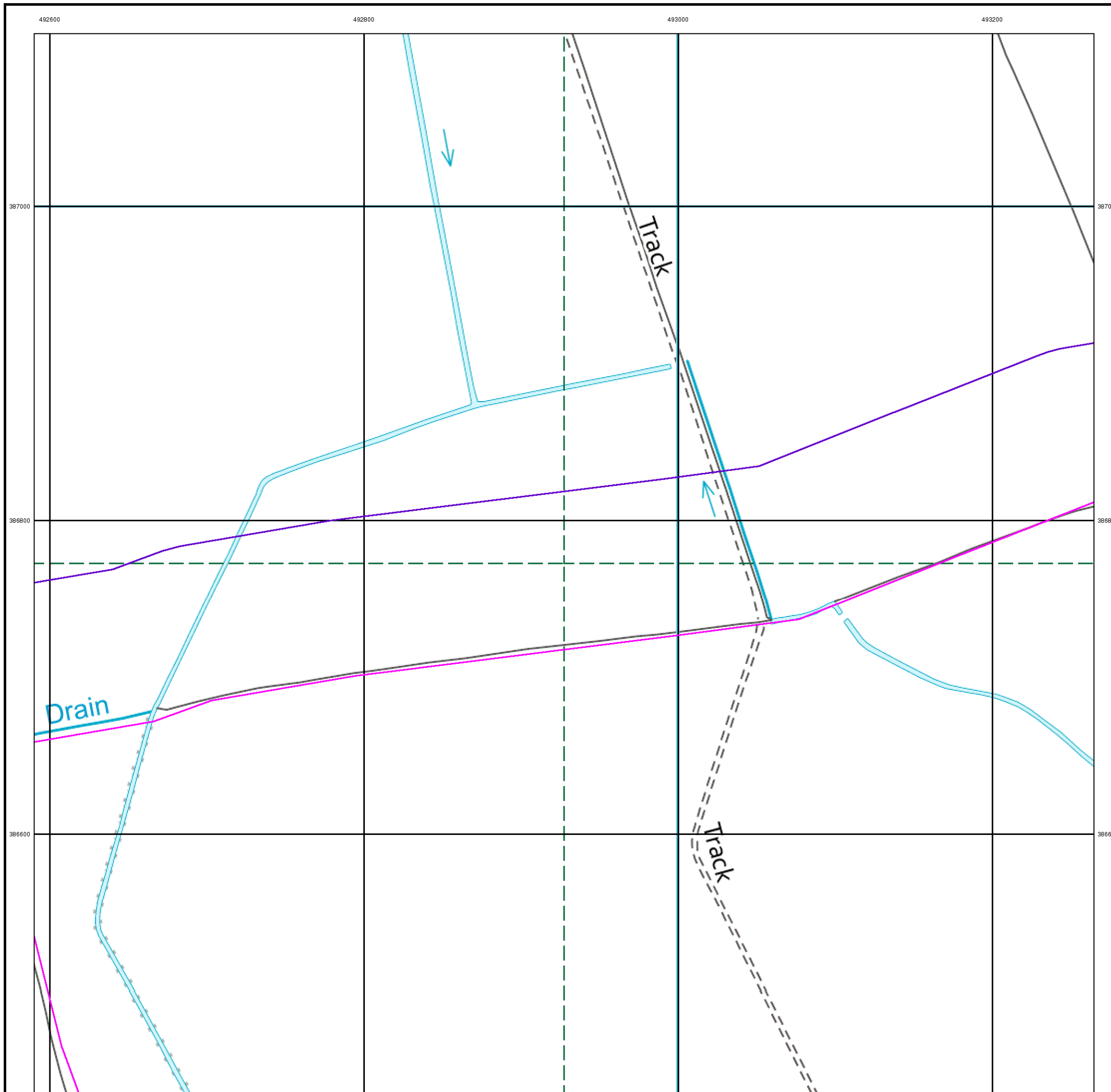


Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Plot Buffer (m): 100

Site Details

Cottam 1



General

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

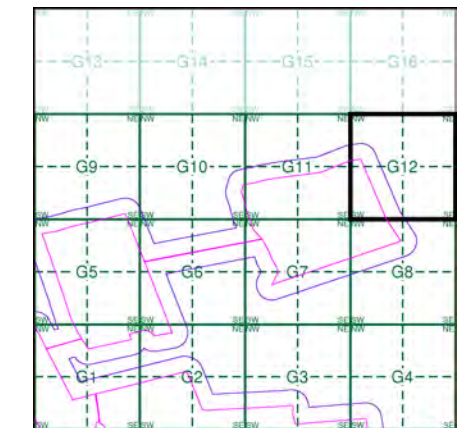
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	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 - 1960	▲	—	▪

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	■

Mining and Ground Stability - Segment G12

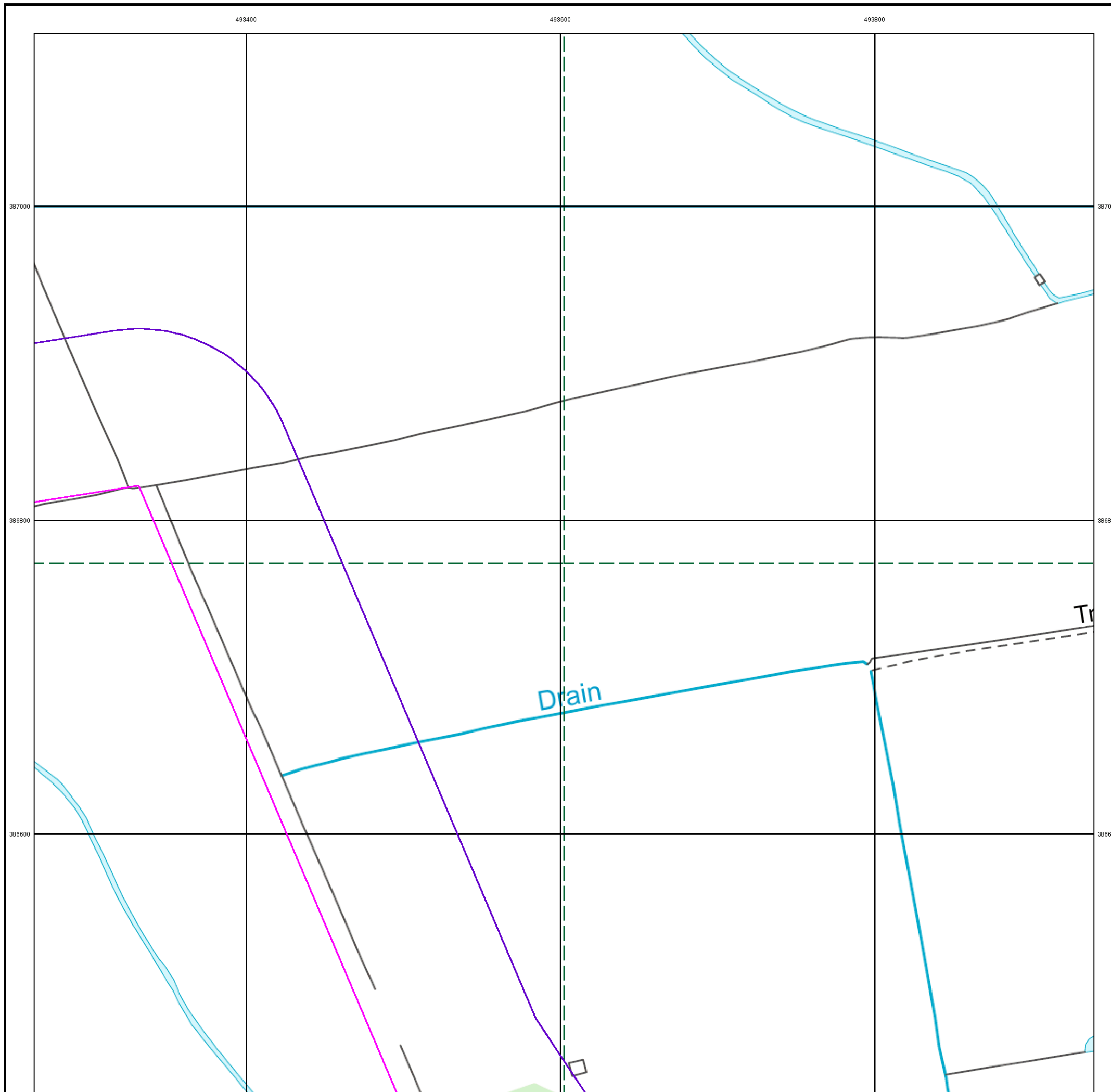


Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Plot Buffer (m): 100




Site Details

Cottam 1






Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILMP	Till, Mid Pleistocene	Diamicton	Not Supplied - Cromerian
	GFDMP	Glaciofluvial Deposits, Mid Pleistocene	Sand and Gravel	Not Supplied - Cromerian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WHM	Whitby Mudstone Formation	Mudstone	Not Supplied - Toarcian
	MRB	Marlstone Rock Formation	Ferruginous Limestone and Ferruginous Sandstone	Not Supplied - Pliensbachian
	CHAM	Chamouth Mudstone Formation	Mudstone	Not Supplied - Sinemurian



Geology 1:50,000 Maps

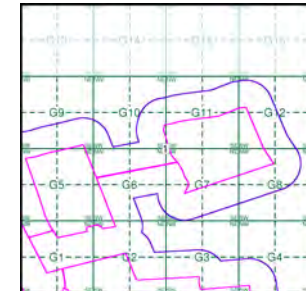
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	102
Map Name:	Market Rasen
Map Date:	1999
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Not Available
Faults:	Not Supplied
Landslip:	Not Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice G

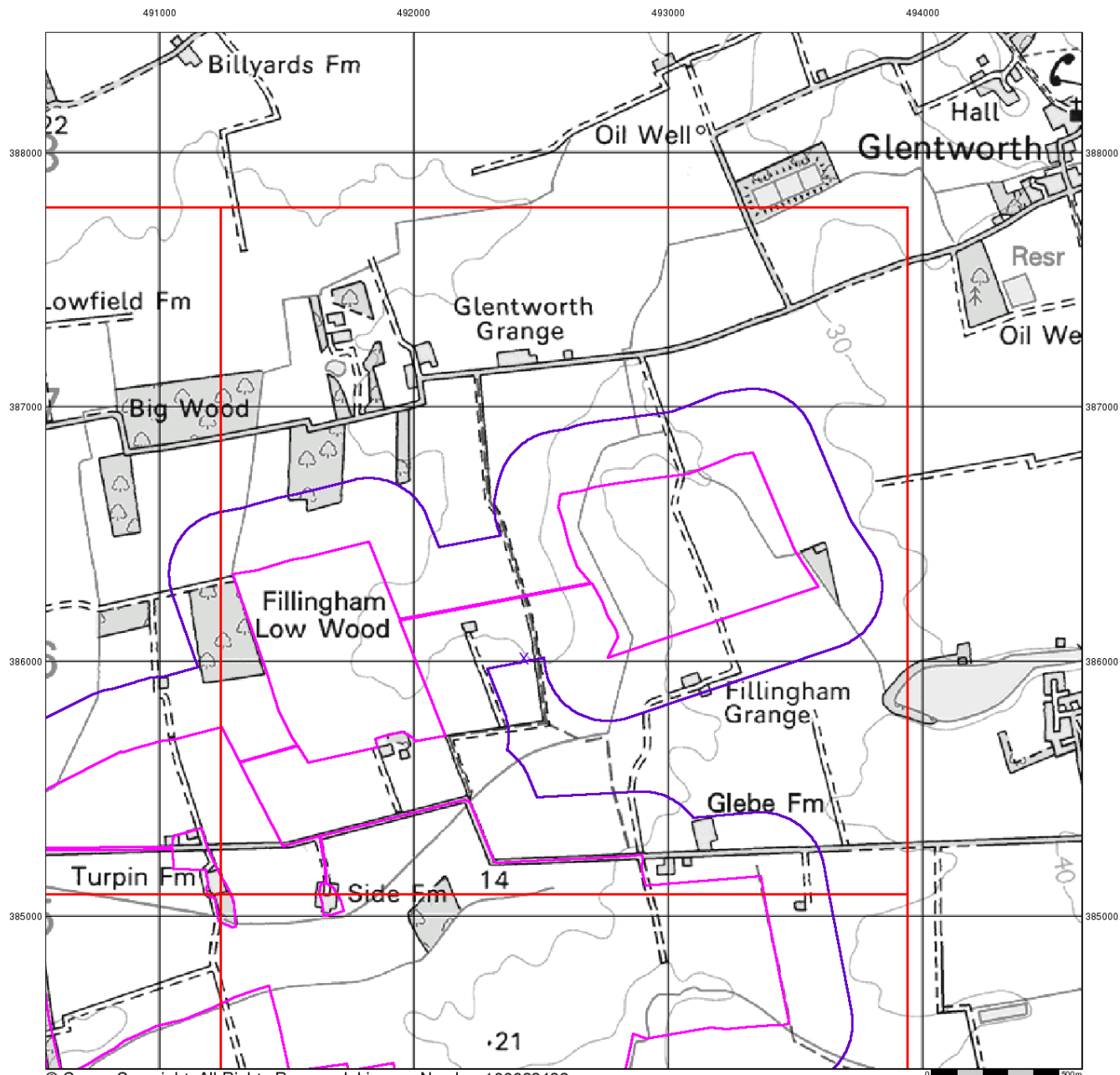


Order Details:

Order Number:	287330989_1_1
Customer Reference:	21-1088.02
National Grid Reference:	492430, 386010
Slice:	G
Site Area (Ha):	884.45
Search Buffer (m):	250

Site Details:

Cottam 1



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Artificial Ground and Landslip

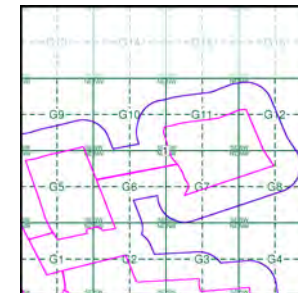
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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



Order Details:

Order Number:	287330989_1_1
Customer Reference:	21-1088.02
National Grid Reference:	492430, 386010
Slice:	G
Site Area (Ha):	884.45
Search Buffer (m):	250

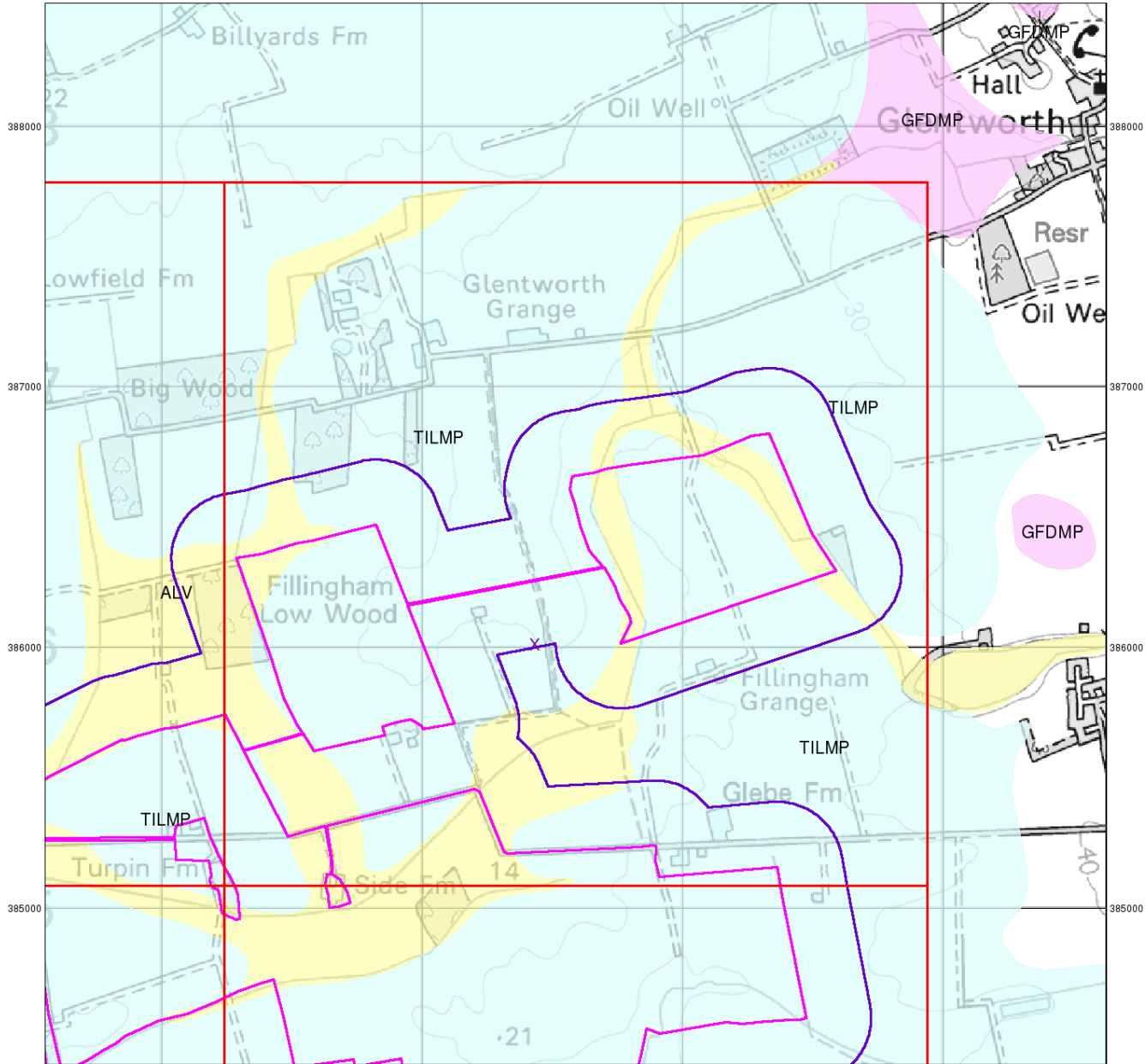
Site Details:

Cottam 1



Tel: [Redacted]
Fax: [Redacted]
Web: [Redacted]

491000 492000 493000 494000



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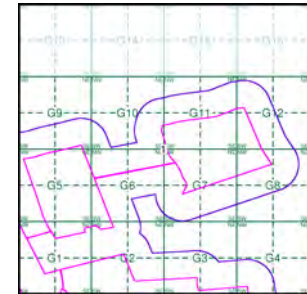
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, 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 G



Order Details:

Order Number: 287330989_1_1
 Customer Reference: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Search Buffer (m): 250

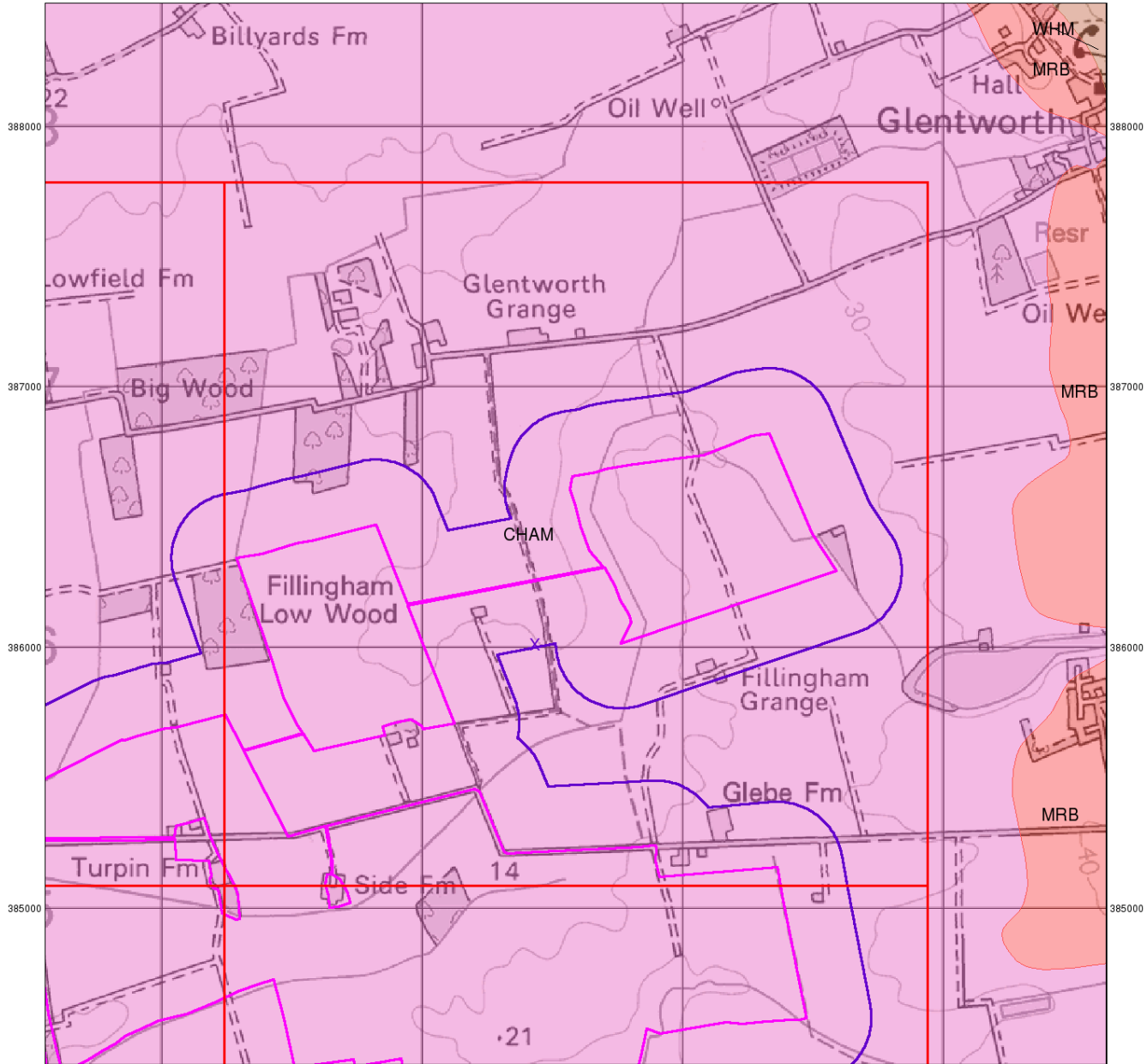
Site Details:

Cottam 1



Tel: [Redacted]
 Fax: [Redacted]
 Web: [Redacted]

491000 492000 493000 494000



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Bedrock and Faults

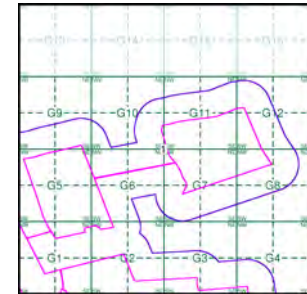
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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 (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice G



Order Details:

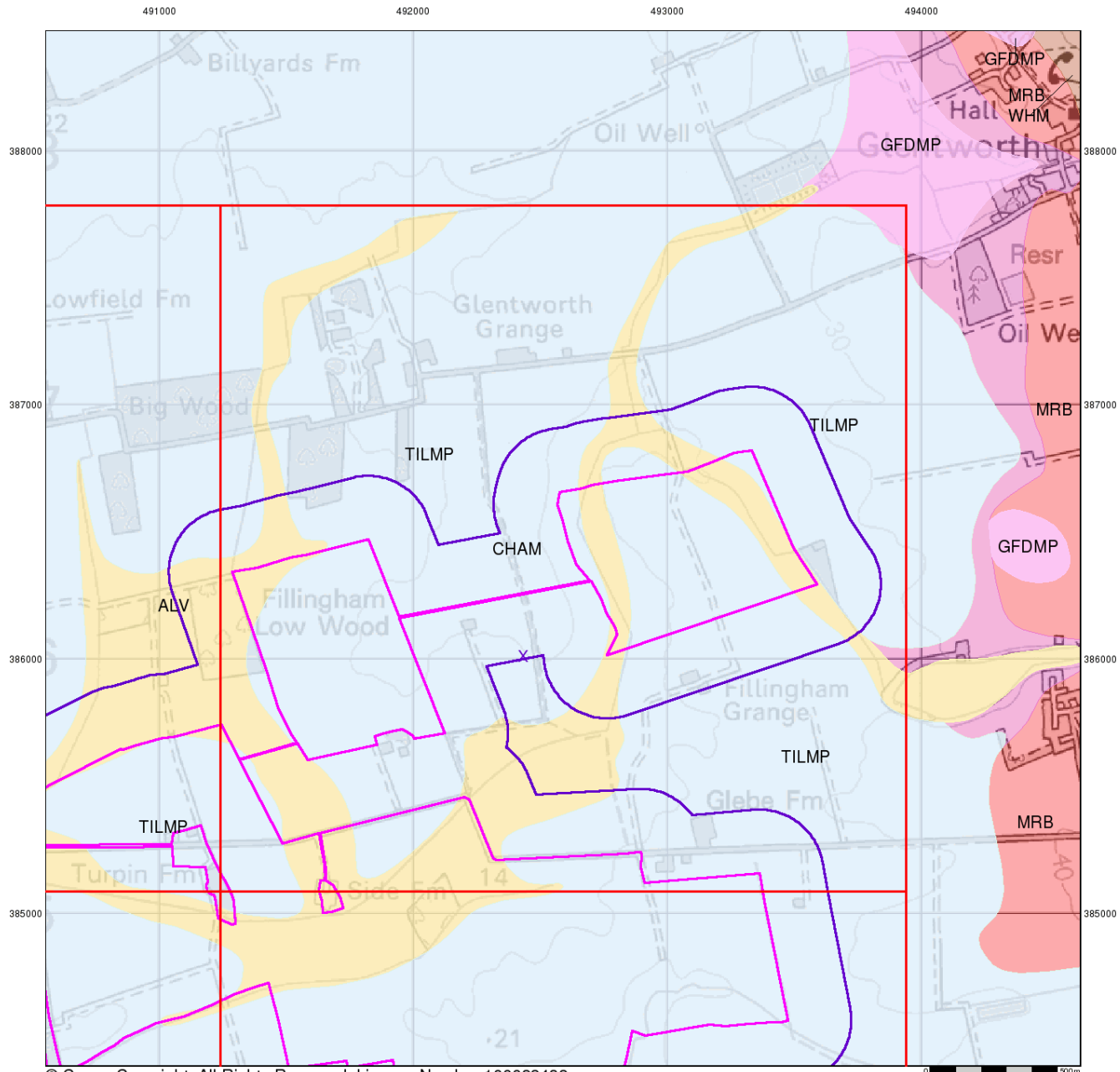
Order Number: 287330989_1_1
 Customer Reference: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Search Buffer (m): 250

Site Details:

Cottam 1



Tel: [Redacted]
 Fax: [Redacted]
 Web: [Redacted]



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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.

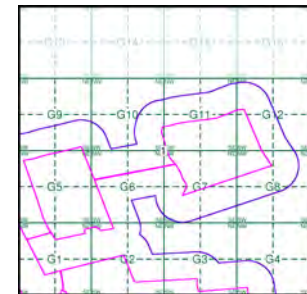
Additional Information

More information on 1:50,000 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 G



Order Details:

Order Number:	287330989_1_1
Customer Reference:	21-1088.02
National Grid Reference:	492430, 386010
Slice:	G
Site Area (Ha):	884.45
Search Buffer (m):	250

Site Details:

Cottam 1



Tel: [Redacted]
 Fax: [Redacted]
 Web: [Redacted]

Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr A Howells, Delta Simons, 3 Henley Office Park, Doddington Road, Lincoln, LN6 3QR

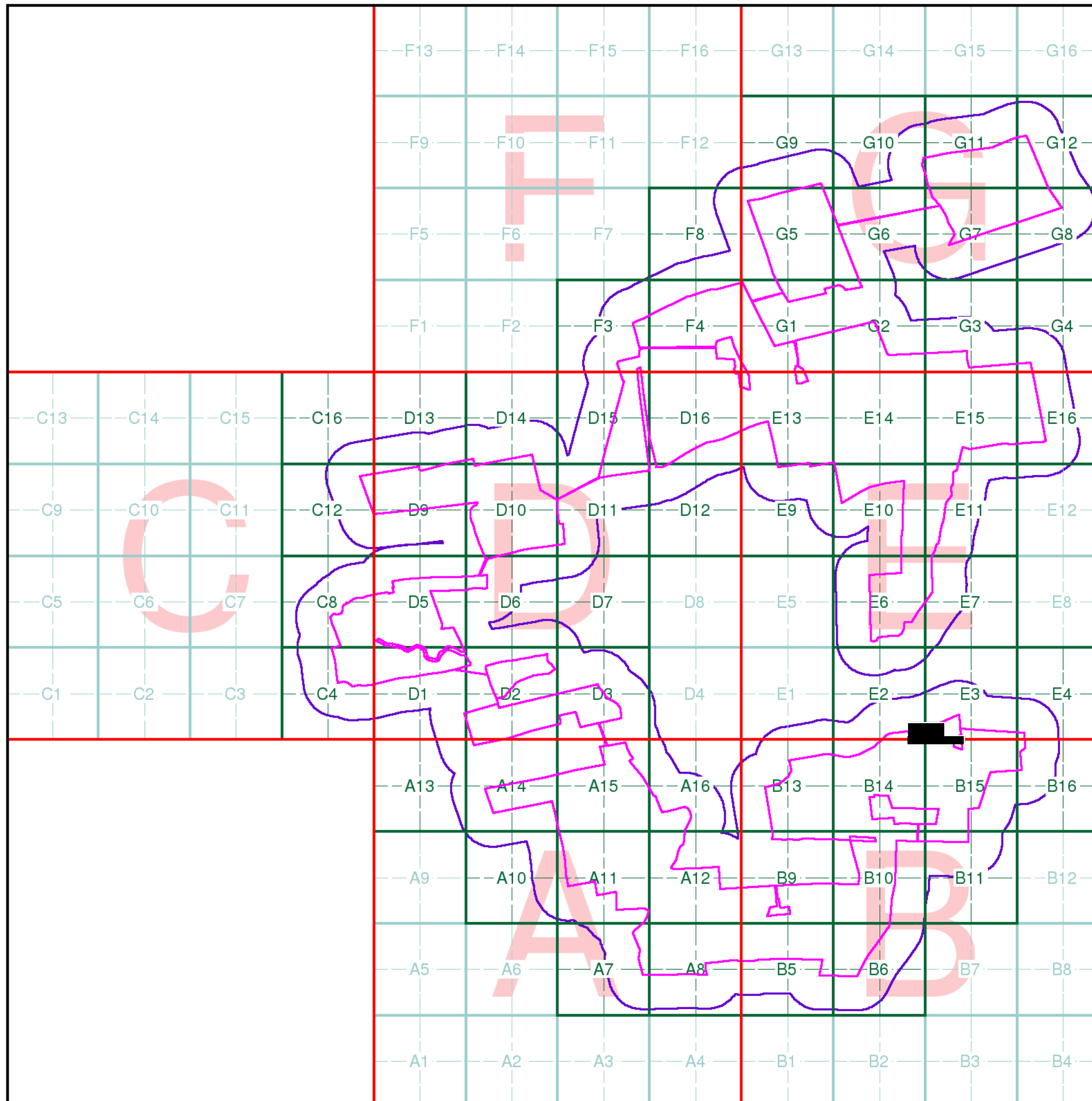
Order Details

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 Customer Ref: 21-1088.02
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 Site Area (Ha): 884.45
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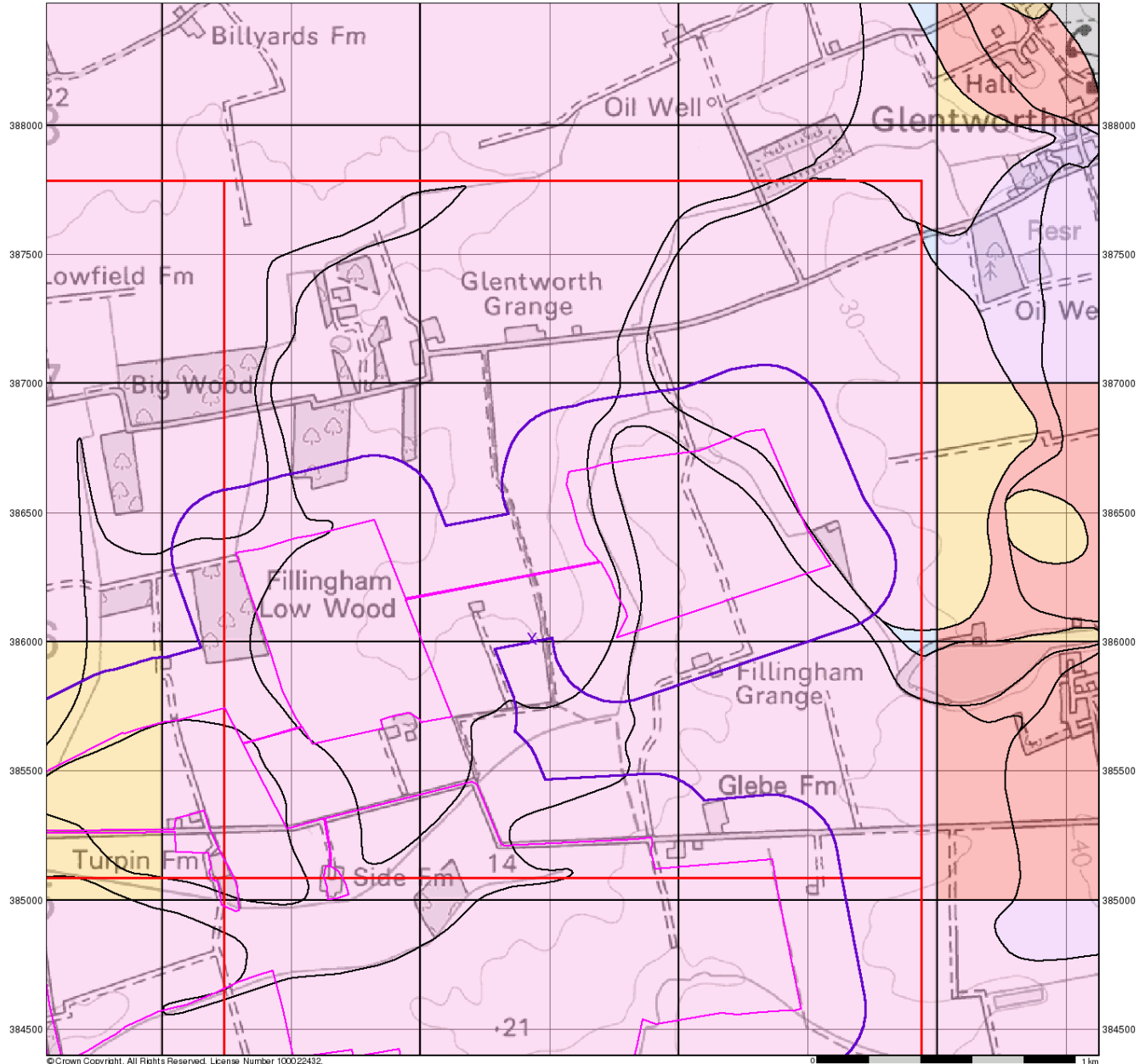
Site Details

Cottam 1

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>



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Groundwater Vulnerability

General

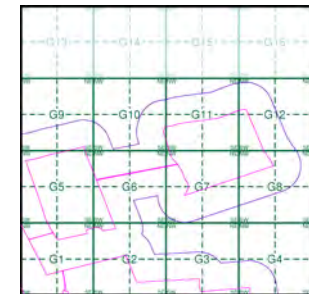
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- | Bedrock Aquifers | Superficial Aquifers |
|---|---|
| High Vulnerability, Principal Aquifer | High Vulnerability, Principal Aquifer |
| High Vulnerability, Secondary Aquifer | High Vulnerability, Secondary Aquifer |
| Medium Vulnerability, Principal Aquifer | Medium Vulnerability, Principal Aquifer |
| Medium Vulnerability, Secondary Aquifer | Medium Vulnerability, Secondary Aquifer |
| Low Vulnerability, Principal Aquifer | Low Vulnerability, Principal Aquifer |
| Low Vulnerability, Secondary Aquifer | Low Vulnerability, Secondary Aquifer |

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice G



Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Search Buffer (m): 250

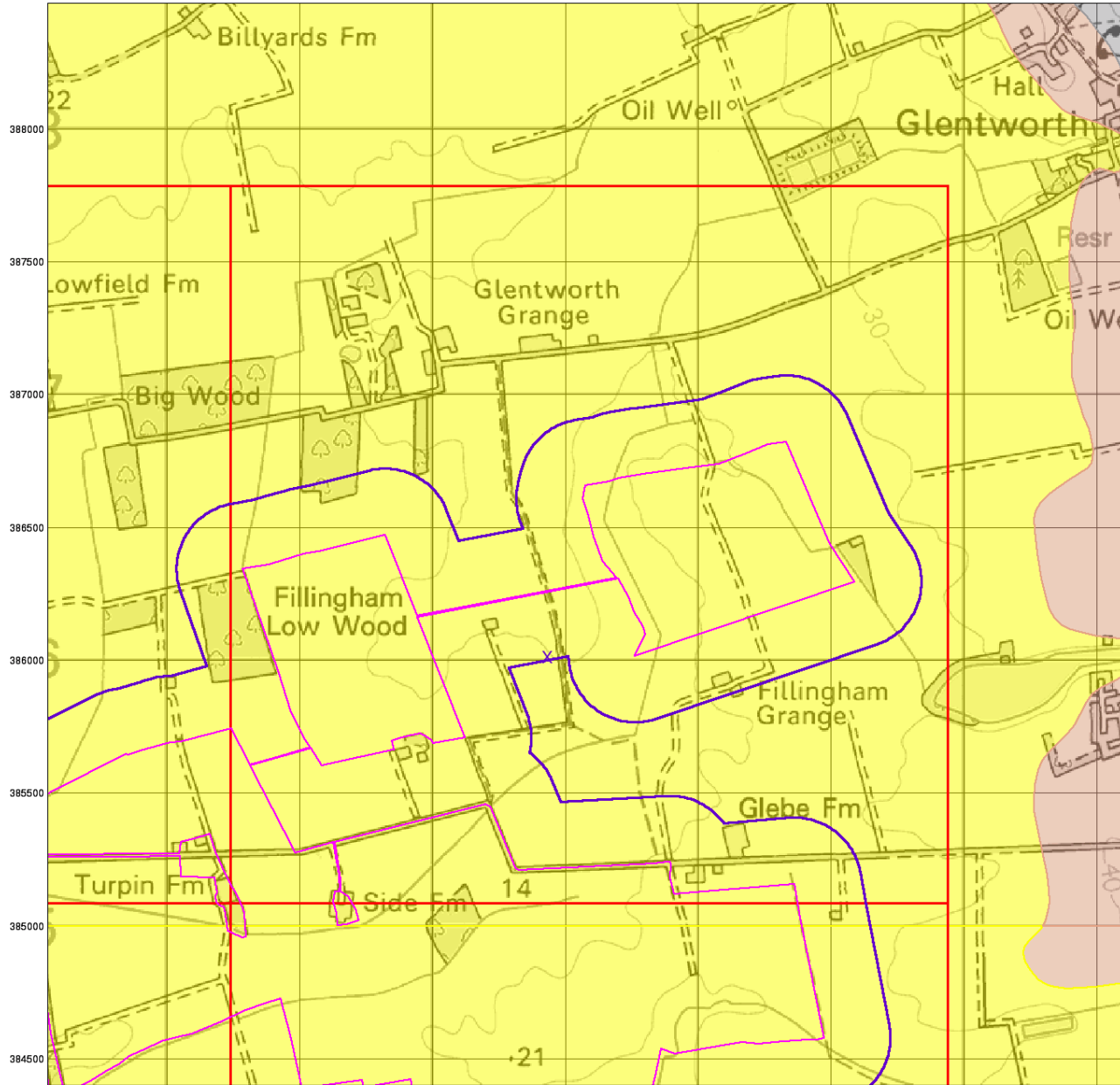
Site Details

Cottam 1



Tel: [Redacted]
 Fax: [Redacted]
 Web: [Redacted]

491000 491500 492000 492500 493000 493500 494000 494500



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0 1 km



Bedrock Aquifer Designation

General

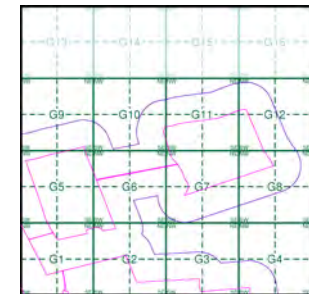
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice G



Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Search Buffer (m): 250

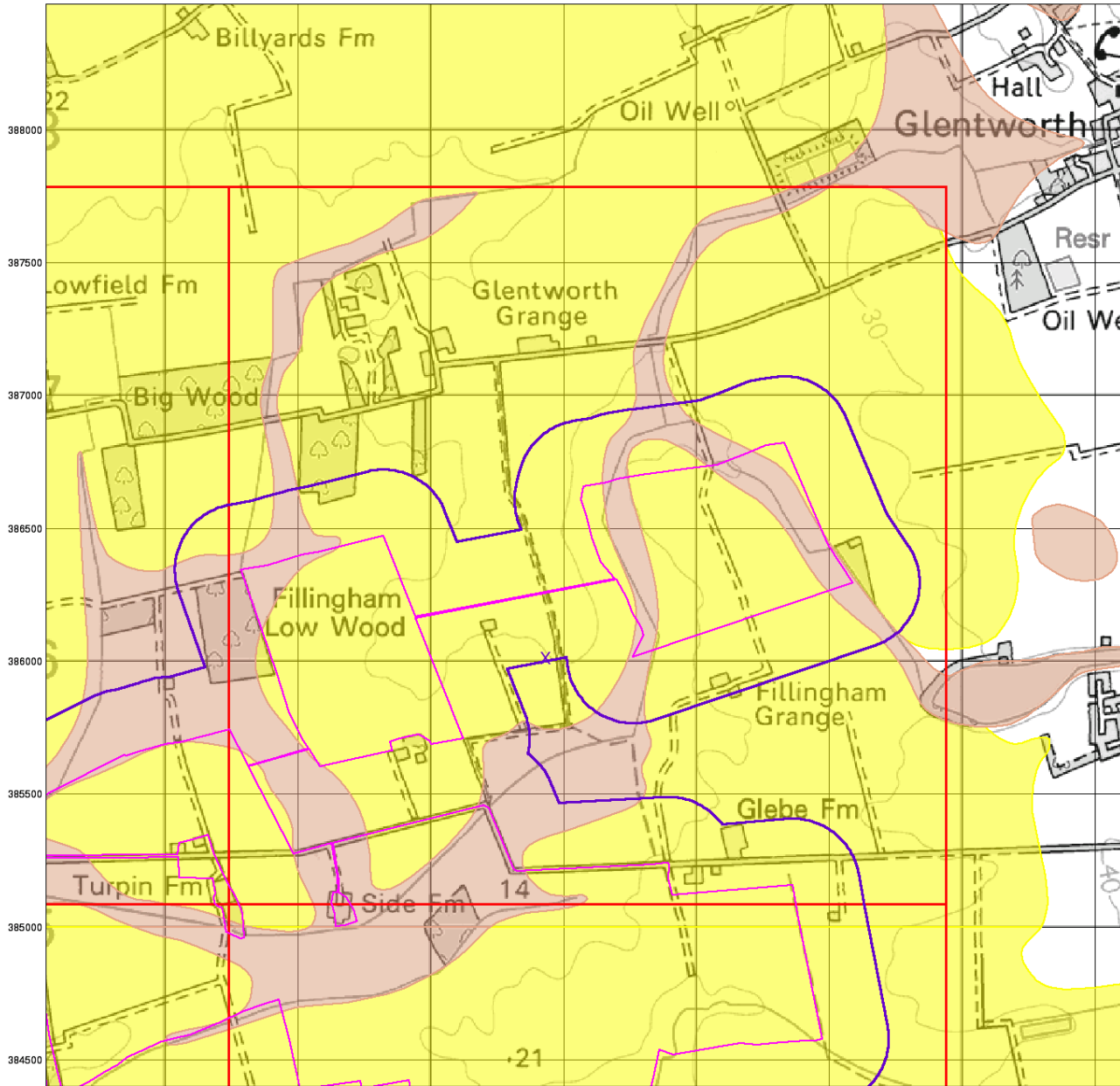
Site Details

Cottam 1



Tel: [Redacted]
 Fax: [Redacted]
 Web: [Redacted]

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0 1 km



Superficial Aquifer Designation

General

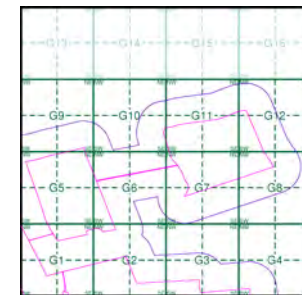
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice G



Order Details

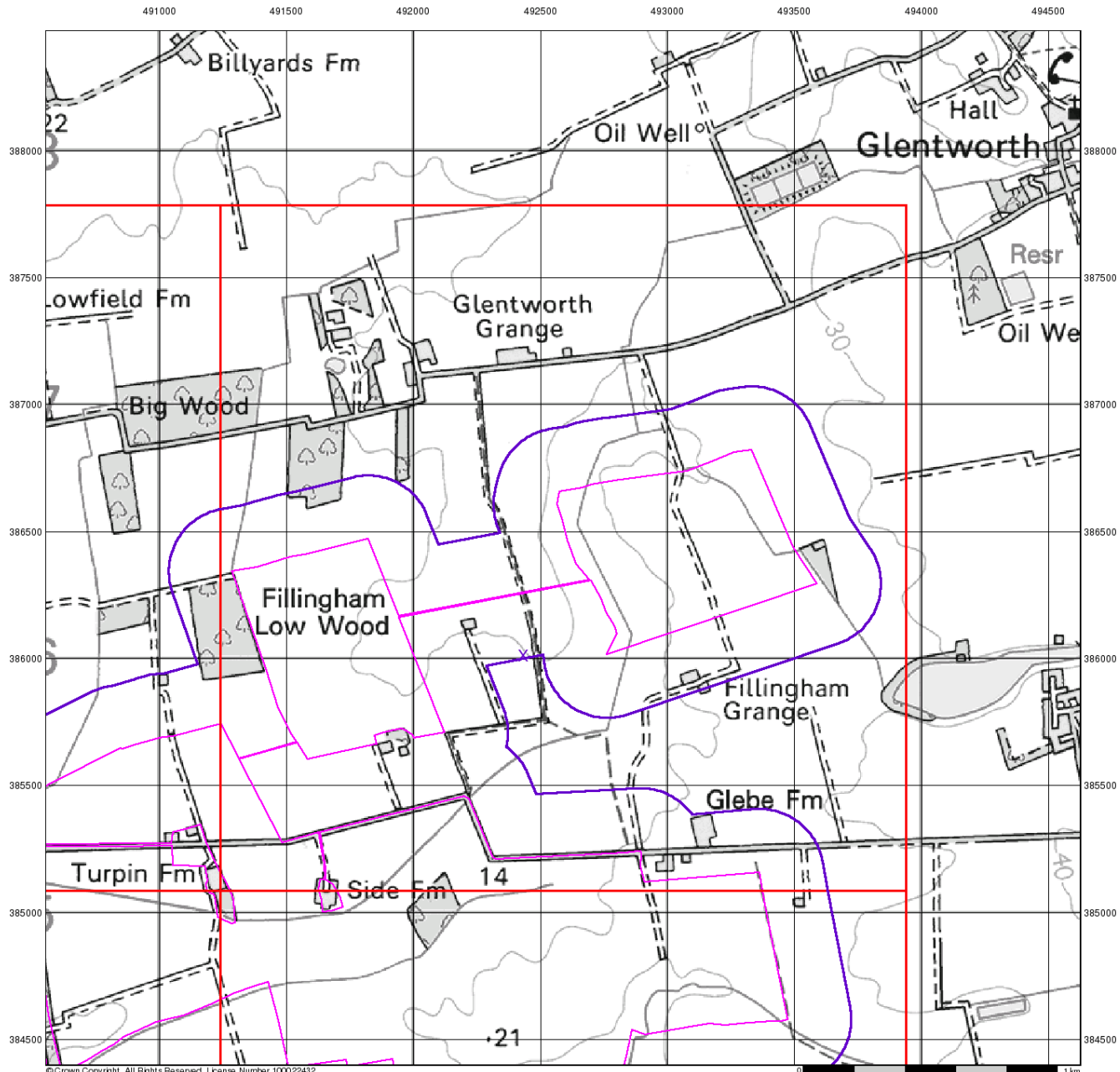
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 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Search Buffer (m): 250

Site Details

Cottam 1



Tel: [Redacted]
 Fax: [Redacted]
 Web: [Redacted]



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Source Protection Zones

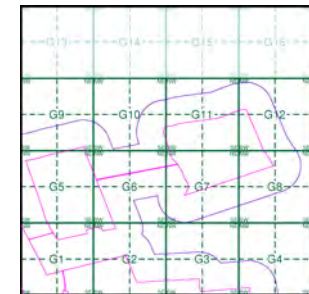
General

- ▭ Specified Site
- ▭ Specified Buffer(s)
- X Bearing Reference Point
- ▭ Slice
- B Map ID

Agency and Hydrological

- ▭ Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice G



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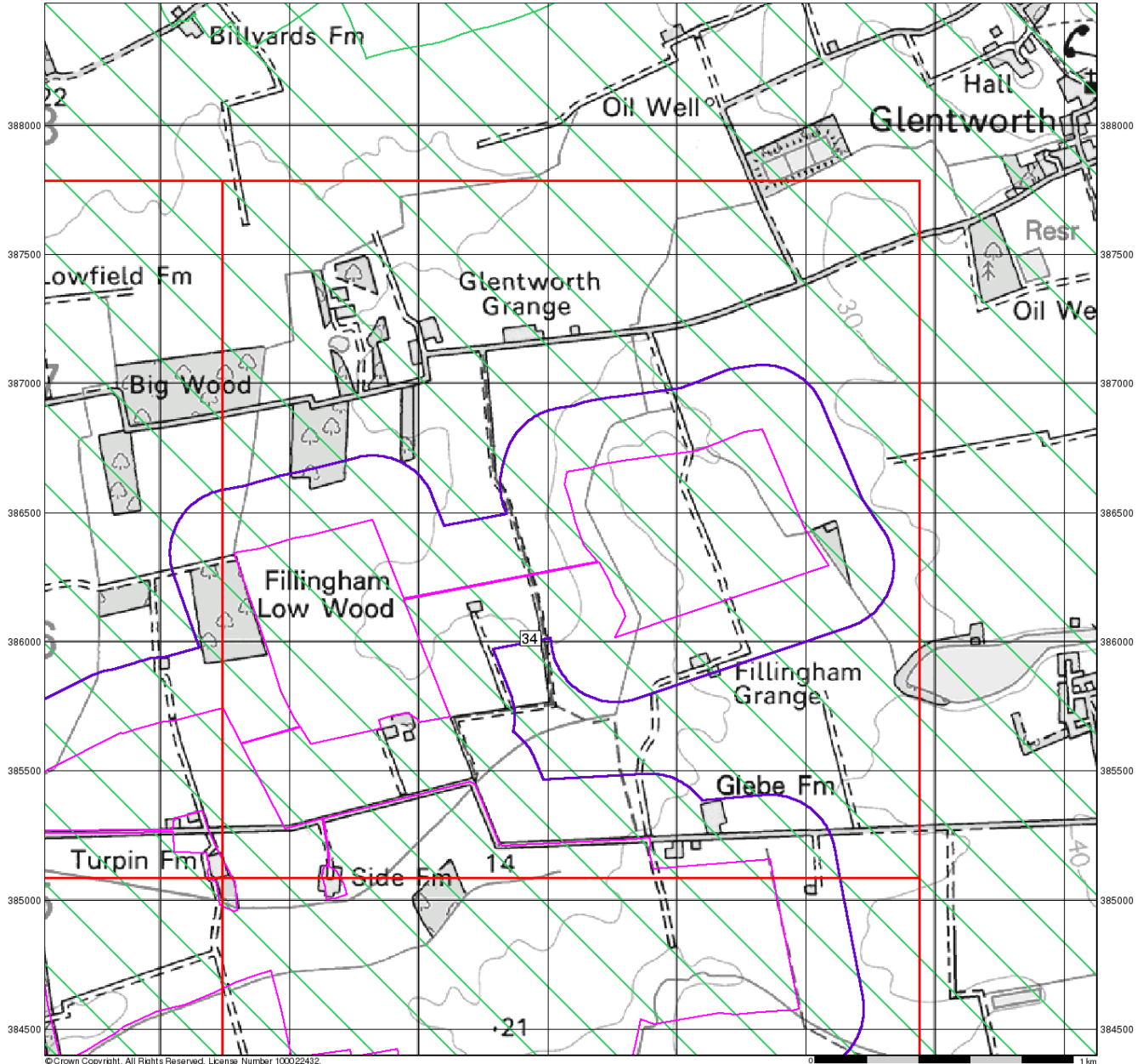
Site Details

Cottam 1



Tel: [REDACTED]
 Fax: [REDACTED]
 Web: [REDACTED]

491000 491500 492000 492500 493000 493500 494000 494500



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Sensitive Land Uses

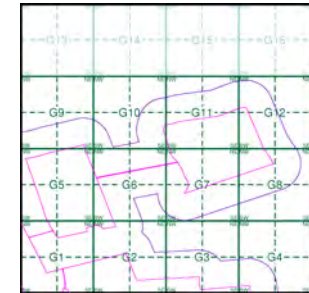
General

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

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice G



Order Details

Order Number: 287330989_1_1
 Customer Ref: 21-1088.02
 National Grid Reference: 492430, 386010
 Slice: G
 Site Area (Ha): 884.45
 Search Buffer (m): 250

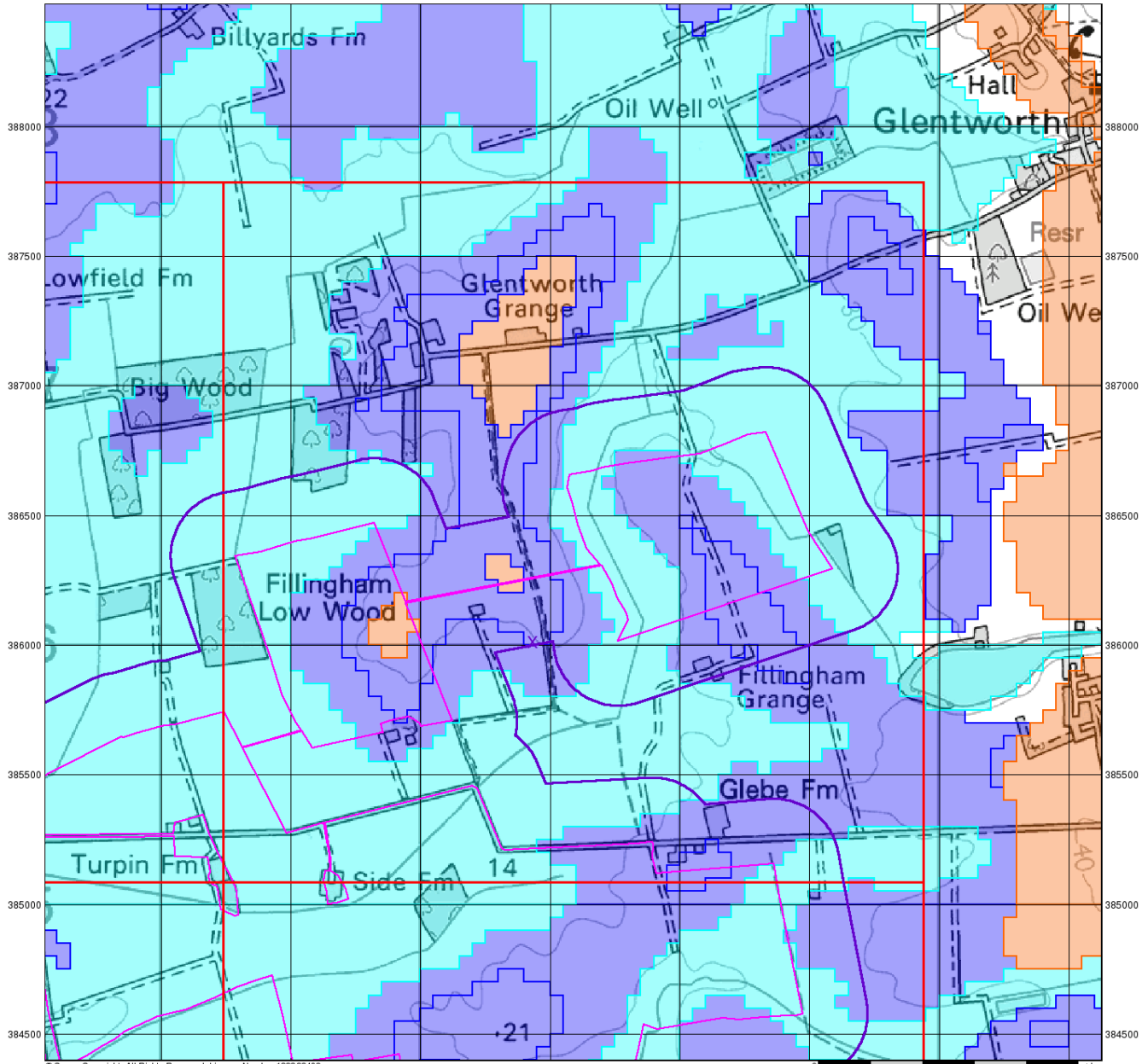
Site Details

Cottam 1



Tel: [Redacted]
 Fax: [Redacted]
 Web: [Redacted]

491000 491500 492000 492500 493000 493500 494000 494500



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0 1 km



BGS Flood GFS Data

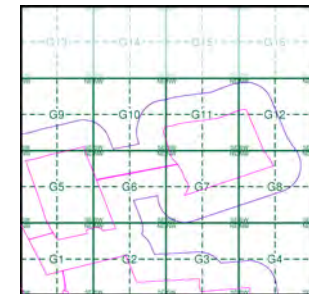
General

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

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice G



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Order Number: 287330989_1_1
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 Slice: G
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Site Details

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