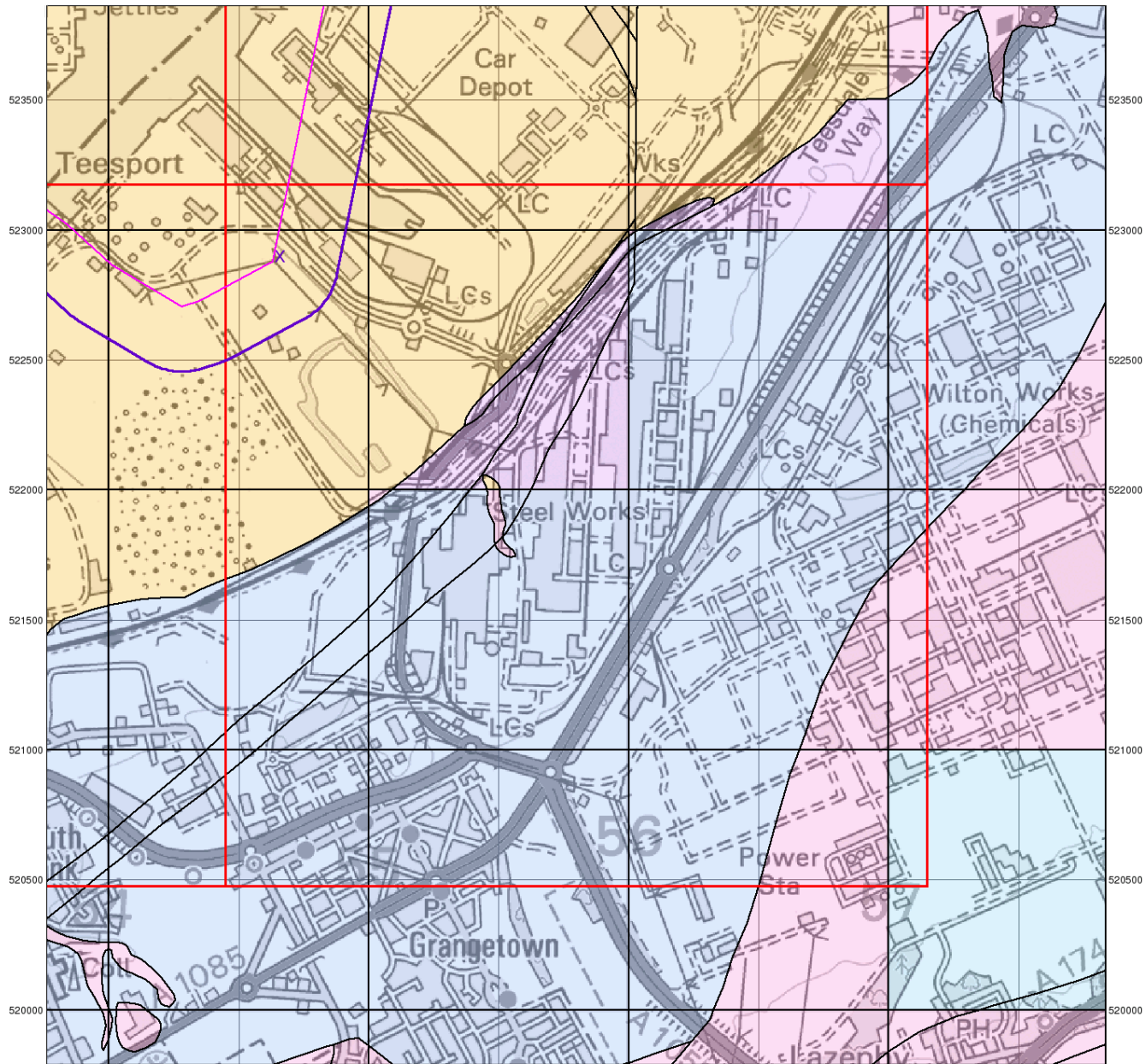


454000 454500 455000 455500 456000 456500 457000 457500



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0 1 km



## Groundwater Vulnerability

### General

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

### Agency and Hydrological

#### Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

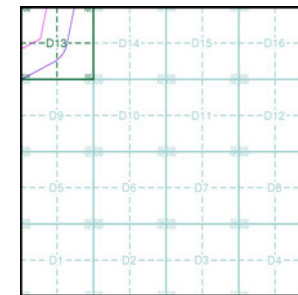
#### Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

### Site Sensitivity Context Map - Slice D



### Order Details

Order Number: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

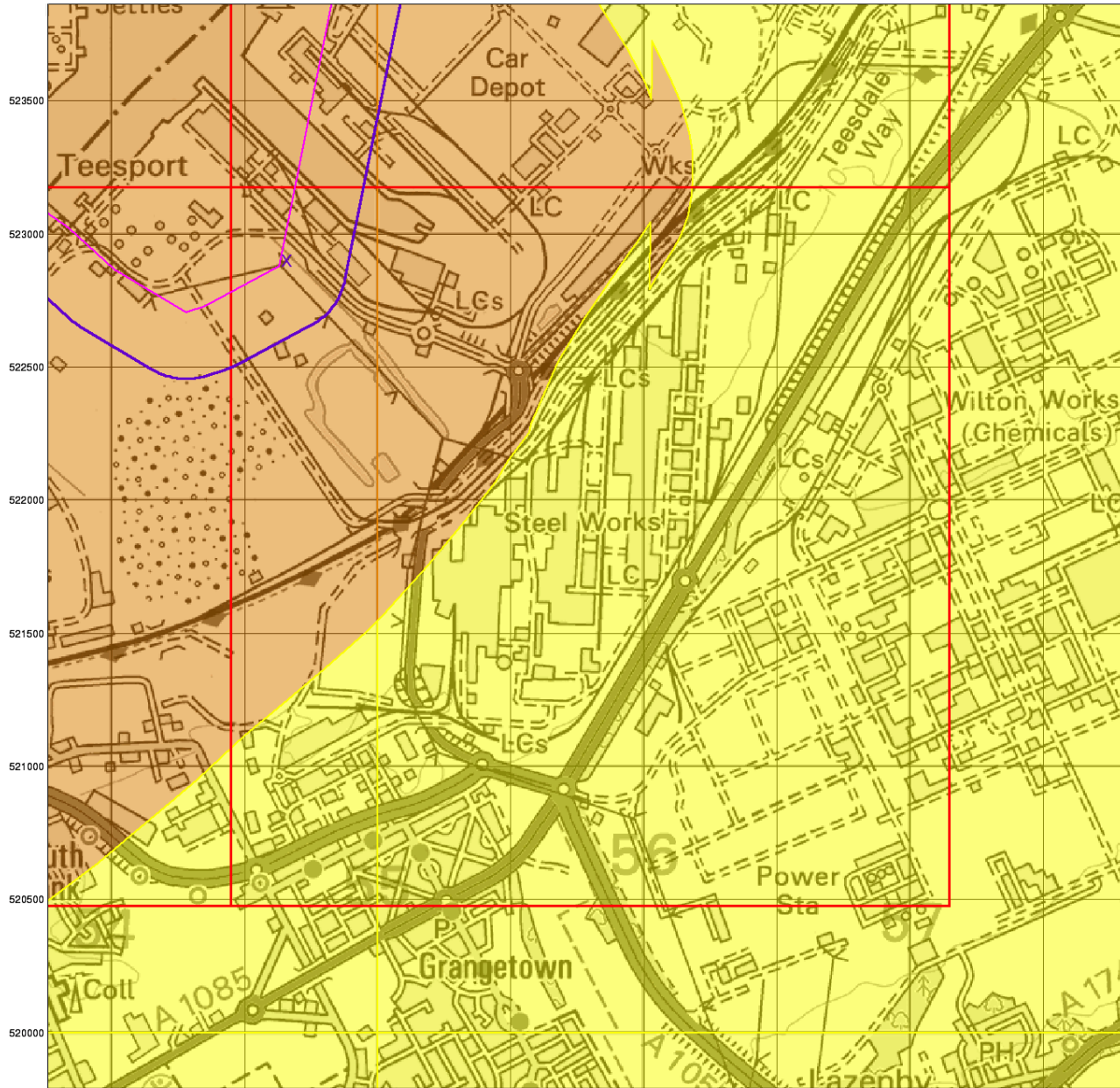
### Site Details

Teesside Clean Gas Project 1 of 2



Tel:  
 Fax:  
 Web:

454000 454500 455000 455500 456000 456500 457000 457500



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0 1 km



## Bedrock Aquifer Designation

### General

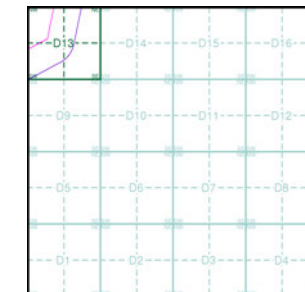
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### 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 D



### Order Details

Order Number: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

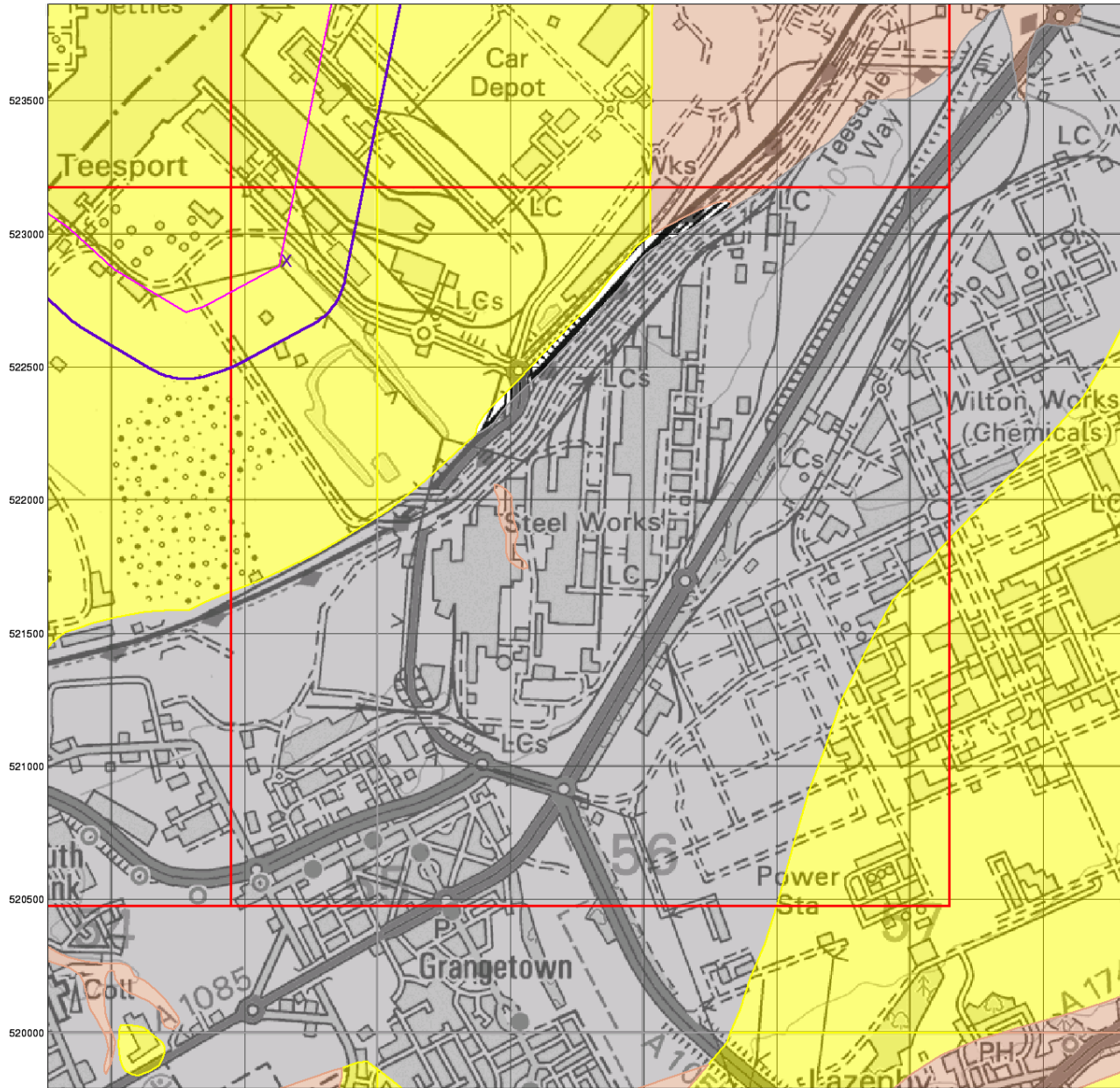
### Site Details

Teesside Clean Gas Project 1 of 2



Tel:  
 Fax:  
 Web:

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0 1 km



## Superficial Aquifer Designation

### General

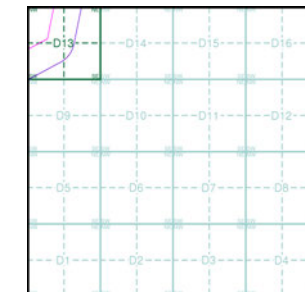
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### 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 D



### Order Details

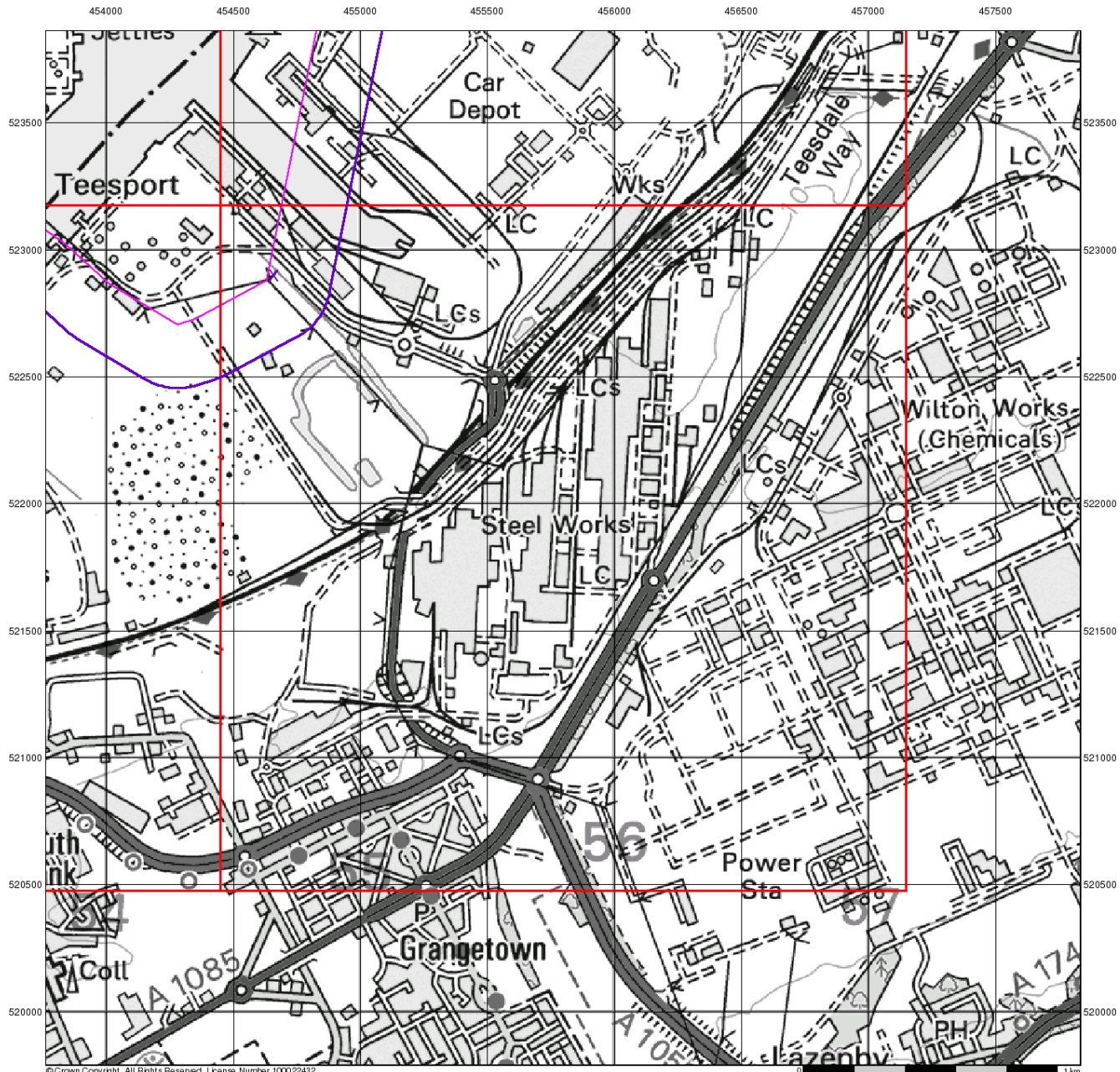
Order Number: 218629364\_1\_1  
 Customer Ref: 60559231/Teeside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

### Site Details

Teesside Clean Gas Project 1 of 2



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



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## Source Protection Zones

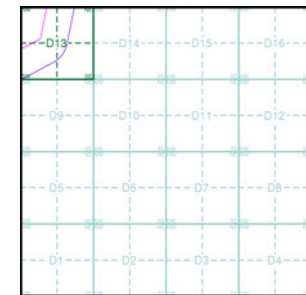
### General

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



### Order Details

Order Number: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

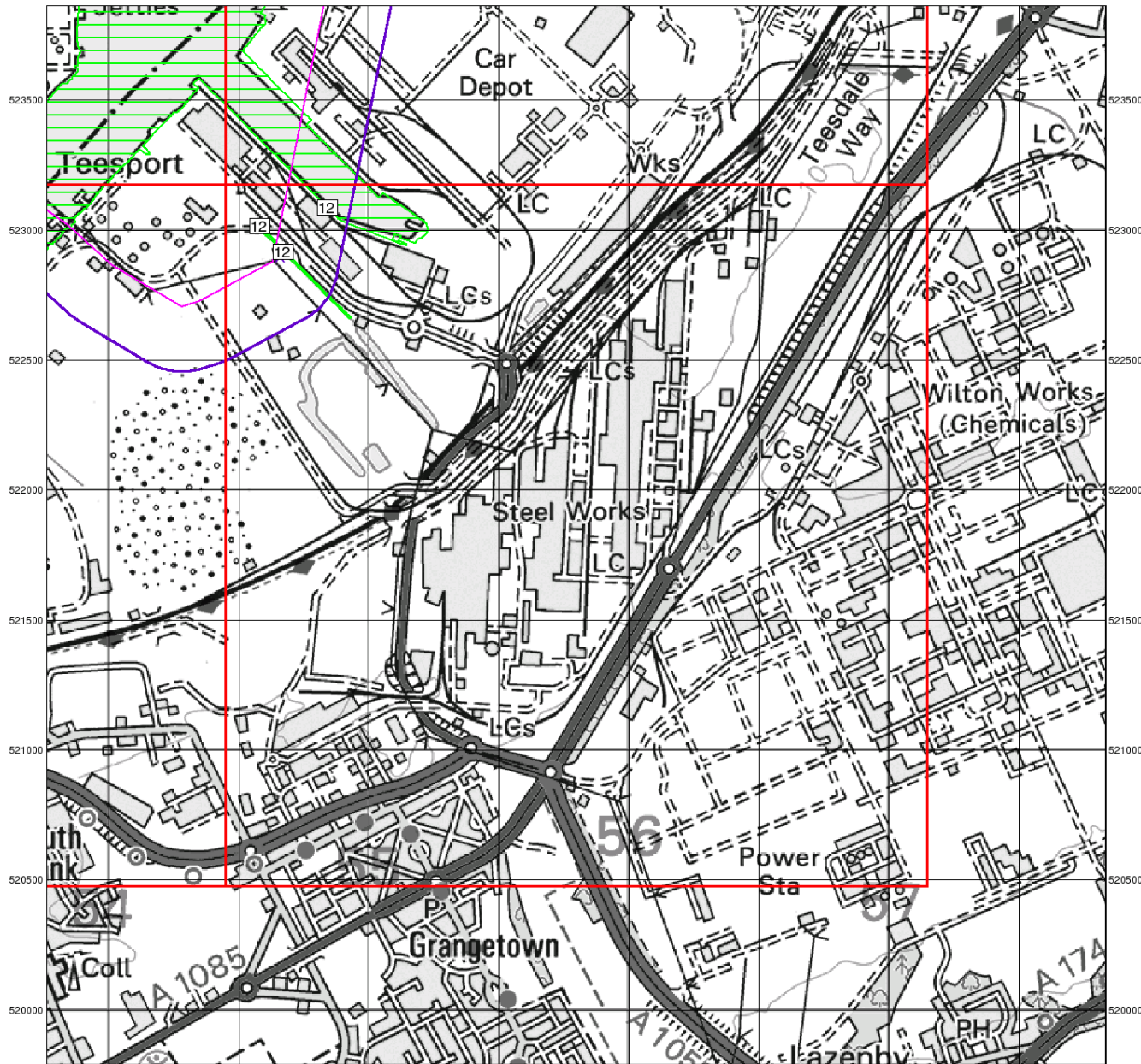
### Site Details

Teesside Clean Gas Project 1 of 2



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

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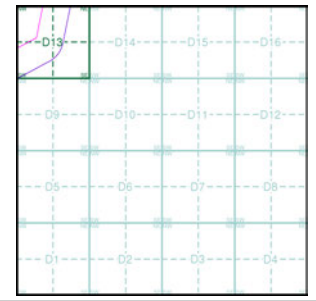


### Sensitive Land Uses

- 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 D



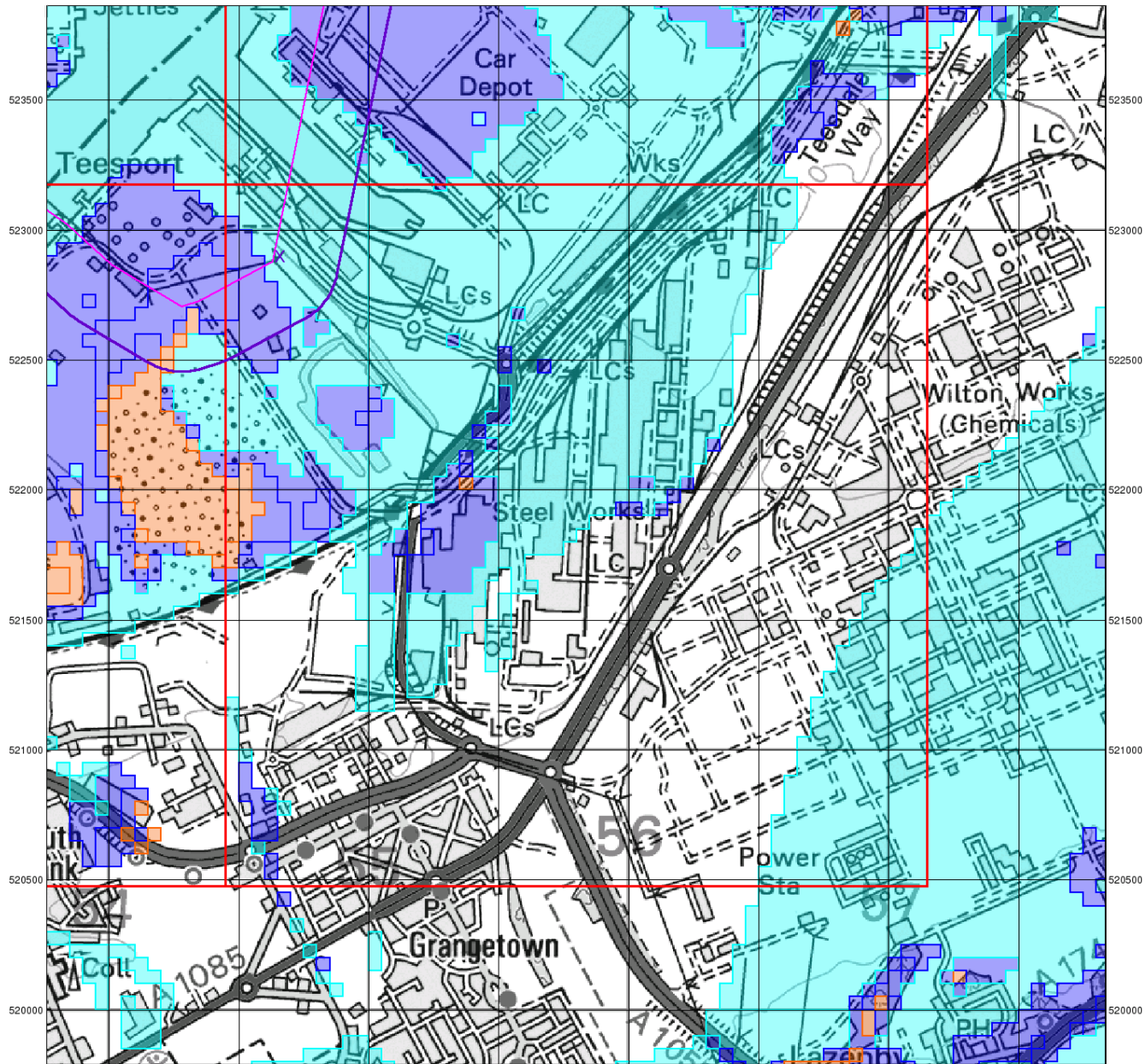
**Order Details**

Order Number: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

**Site Details**  
 Teesside Clean Gas Project 1 of 2



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**BGS Flood GFS Data**

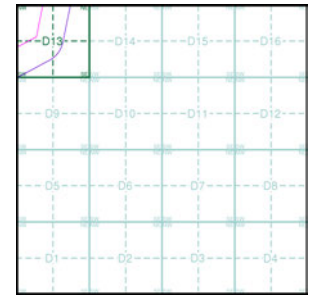
**General**

- 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 D**



**Order Details**

Order Number: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

**Site Details**

Teesside Clean Gas Project 1 of 2



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

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

218629364\_1\_1

**Customer Reference:**

60559231/Teesside Clean Gas

**National Grid Reference:**

454660, 522900

**Slice:**

D

**Site Area (Ha):**

1304.99

**Search Buffer (m):**

250

#### Site Details:

Teesside Clean Gas Project 1 of 2

#### Client Details:

Mr R Addison

AECOM Ltd

1st Floor, One Trinity Gardens

Broad Chare

Newcastle Upon Tyne

NE1 2HF

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	4
Hazardous Substances	6
Geological	7
Industrial Land Use	-
Sensitive Land Use	8
Data Currency	9
Data Suppliers	13
Useful Contacts	14

#### 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/Natural Resources Wales 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 this 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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#### Report Version v53.0



Data Type	Page Number	On Site	0 to 250m (*up to 500m)
<b>Agency &amp; Hydrological</b>			
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes
Contaminated Land Register Entries and Notices			
Discharge Consents			
Prosecutions Relating to Controlled Waters			n/a
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	1	
Local Authority Pollution Prevention and Control Enforcements			
Nearest Surface Water Feature	pg 1	Yes	
Pollution Incidents to Controlled Waters			
Prosecutions Relating to Authorised Processes			
Registered Radioactive Substances	pg 2	1	
River Quality			
River Quality Biology Sampling Points			
River Quality Chemistry Sampling Points			
Substantiated Pollution Incident Register			
Water Abstractions			
Water Industry Act Referrals			
Groundwater Vulnerability Map	pg 2	Yes	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a
Groundwater Vulnerability - Local Information			n/a
Bedrock Aquifer Designations	pg 3	Yes	n/a
Superficial Aquifer Designations	pg 3	Yes	n/a
Source Protection Zones			
Extreme Flooding from Rivers or Sea without Defences	pg 3	Yes	
Flooding from Rivers or Sea without Defences	pg 3	Yes	
Areas Benefiting from Flood Defences			
Flood Water Storage Areas			
Flood Defences			
OS Water Network Lines	pg 3	2	

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
<b>Waste</b>			
BGS Recorded Landfill Sites			
Historical Landfill Sites			
Integrated Pollution Control Registered Waste Sites			
Licensed Waste Management Facilities (Landfill Boundaries)	pg 4		2
Licensed Waste Management Facilities (Locations)			
Local Authority Landfill Coverage	pg 4	1	n/a
Local Authority Recorded Landfill Sites			
Potentially Infilled Land (Non-Water)			
Potentially Infilled Land (Water)	pg 4	3	
Registered Landfill Sites	pg 5		1
Registered Waste Transfer Sites			
Registered Waste Treatment or Disposal Sites			
<b>Hazardous Substances</b>			
Control of Major Accident Hazards Sites (COMAH)			
Explosive Sites			
Notification of Installations Handling Hazardous Substances (NIHHS)			
Planning Hazardous Substance Consents	pg 6		1
Planning Hazardous Substance Enforcements			

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
<b>Geological</b>			
BGS 1:625,000 Solid Geology	pg 7	Yes	n/a
BGS Estimated Soil Chemistry	pg 7	Yes	Yes
BGS Recorded Mineral Sites			
BGS Urban Soil Chemistry			
BGS Urban Soil Chemistry Averages			
CBSCB Compensation District			n/a
Coal Mining Affected Areas			n/a
Mining Instability			n/a
Man-Made Mining Cavities			
Natural Cavities			
Non Coal Mining Areas of Great Britain			
Potential for Collapsible Ground Stability Hazards			
Potential for Compressible Ground Stability Hazards	pg 7	Yes	
Potential for Ground Dissolution Stability Hazards			
Potential for Landslide Ground Stability Hazards	pg 7	Yes	
Potential for Running Sand Ground Stability Hazards	pg 7	Yes	
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 7	Yes	
Radon Potential - Radon Affected Areas			n/a
Radon Potential - Radon Protection Measures			n/a
<b>Industrial Land Use</b>			
Contemporary Trade Directory Entries			
Fuel Station Entries			
Points of Interest - Commercial Services			
Points of Interest - Education and Health			
Points of Interest - Manufacturing and Production			
Points of Interest - Public Infrastructure			
Points of Interest - Recreational and Environmental			
Gas Pipelines			
Underground Electrical Cables			

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
<b>Sensitive Land Use</b>			
Ancient Woodland			
Areas of Adopted Green Belt			
Areas of Unadopted Green Belt			
Areas of Outstanding Natural Beauty			
Environmentally Sensitive Areas			
Forest Parks			
Local Nature Reserves			
Marine Nature Reserves			
National Nature Reserves			
National Parks			
Nitrate Sensitive Areas			
Nitrate Vulnerable Zones			
Ramsar Sites			
Sites of Special Scientific Interest	pg 8	1	
Special Areas of Conservation			
Special Protection Areas			
World Heritage Sites			

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	0	1	453850 523700
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	0	1	454950 523400
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D13NW (W)	0	1	454500 522850
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	D13NW (NE)	0	1	454658 522899
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding to Occur at Surface	D13NE (E)	0	1	455000 522899
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D13NW (W)	0	1	454600 522899
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NW)	0	1	453850 523600
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	12	1	454350 522700
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	20	1	455100 523300
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	56	1	454300 522650
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	106	1	454300 522600
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	132	1	453950 522750
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	132	1	454200 522600
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	159	1	454250 522550
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	208	1	454250 522500
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	D13SW (SE)	214	1	454750 522700
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	221	1	454200 522500
	<b>BGS Groundwater Flooding Susceptibility</b> Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(NE)	228	1	454950 523250
1	<b>Local Authority Pollution Prevention and Controls</b> Name: East Coast Slag Products Location: Teesside Slag Products, Teesport Works, Grangetown, MIDDLESBROUGH, Cleveland, TS6 7RU Authority: Middlesbrough Council, Environmental Health Department Permit Reference: Not Given Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/8 Quarry processes including roadstone plants and the size reduction of bricks, tiles and concrete <b>Status: Authorisation revoked</b> Positional Accuracy: Manually positioned within the geographical locality	D13NW (NW)	0	3	454600 523016
	<b>Nearest Surface Water Feature</b>	D13NW (NE)	0	-	454677 522918

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	<p><b>Registered Radioactive Substances</b></p> <p>Name: Veolia Es (UK) Limited            Location: Pd Teesport, Tees Dock At Grangetown, Middlesbrough, Ts6 6ud            Authority: Environment Agency, North East Region            Permit Reference: VB3339DM            Dated: Not Supplied            Process Type: Not Supplied            Description: Not Supplied  <b>Status: Application has been determined by the EA</b>            Positional Accuracy: Automatically positioned to the address</p>	D13NW (NW)	0	2	454535 523052
	<p><b>Groundwater Vulnerability Map</b></p> <p>Combined Classification: Secondary Superficial Aquifer - High Vulnerability            Combined Vulnerability: High            Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer            Pollutant Speed: High            Bedrock Flow: Well Connected Fractures            Dilution: &lt;300 mm/year            Baseflow Index: &gt;70%            Superficial Patchiness: &gt;90%            Superficial Thickness: &gt;10m            Superficial Recharge: High</p>	(W)	0	4	454000 522899
	<p><b>Groundwater Vulnerability Map</b></p> <p>Combined Classification: Secondary Superficial Aquifer - High Vulnerability            Combined Vulnerability: High            Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer            Pollutant Speed: High            Bedrock Flow: Well Connected Fractures            Dilution: &lt;300 mm/year            Baseflow Index: &gt;70%            Superficial Patchiness: &gt;90%            Superficial Thickness: &gt;10m            Superficial Recharge: High</p>	D13NW (NE)	0	4	454658 522899
	<p><b>Groundwater Vulnerability Map</b></p> <p>Combined Classification: Secondary Superficial Aquifer - High Vulnerability            Combined Vulnerability: High            Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer            Pollutant Speed: High            Bedrock Flow: Well Connected Fractures            Dilution: &lt;300 mm/year            Baseflow Index: &gt;70%            Superficial Patchiness: &gt;90%            Superficial Thickness: &gt;10m            Superficial Recharge: No Data</p>	(W)	0	4	454000 523000
	<p><b>Groundwater Vulnerability Map</b></p> <p>Combined Classification: Secondary Superficial Aquifer - High Vulnerability            Combined Vulnerability: High            Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer            Pollutant Speed: High            Bedrock Flow: Well Connected Fractures            Dilution: &lt;300 mm/year            Baseflow Index: &gt;70%            Superficial Patchiness: &gt;90%            Superficial Thickness: 3-10m            Superficial Recharge: No Data</p>	D13NW (N)	0	4	454658 523000
	<p><b>Groundwater Vulnerability - Soluble Rock Risk</b></p> <p>None</p>				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - B	D13NW (NE)	0	4	454658 522899
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - B	D13NE (E)	0	4	455000 522899
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - Undifferentiated	D13NW (NE)	0	4	454658 522899
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	D13NE (NE)	0	2	454825 523073
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	D13NE (NE)	0	2	454827 523092
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				
3	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 499.9 Watercourse Level: Underground Permanent: True Watercourse Name: Knitting Wife Beck Catchment Name: Tees Primacy: 1	D13NW (NW)	0	5	454572 523019
4	<b>OS Water Network Lines</b> Watercourse Form: Tidal river Watercourse Length: 496.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Knitting Wife Beck Catchment Name: Tees Primacy: 1	D13NW (NE)	0	5	454674 522915

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Name: B S Cleveland Landfill Licence Number: 60135 Location: Teesside Division, Steel House, Redcar, Cleveland, TS10 5QW Licence Holder: Corus Construction & Industrial ( British Steel Plc ) Authority: Environment Agency - North East Region, North East Area Site Category: Other Landfill Sites Taking Special Waste Max Input Rate: Not Supplied <b>Licence Status: PPC</b> Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	(SW)	21	2	454369 522703
6	<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Name: Ici No 3 Teesport Epr/Dp3331dj Licence Number: 0 Location: ICI No 3 (Teesport) Landfill, Grangetown, Middlesbrough, TS6 6UG Licence Holder: Highfield Environmental Limited Authority: Environment Agency - North East Region, North East Area Site Category: Waste Landfilling; >10 T/D with Capacity >25,000T Excluding Inert Waste Max Input Rate: Not Supplied <b>Licence Status: Transfer Effective</b> Issued: 27th January 2017 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	(SW)	51	2	454370 522680
	<b>Local Authority Landfill Coverage</b> Name: Redcar and Cleveland Unitary Council - Has no landfill data to supply		0	6	454658 522899
7	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1953	D13NW (NE)	0	-	454679 522920
8	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	D13NW (NE)	0	-	454658 522899
9	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	D13SW (SW)	0	-	454473 522572



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	<p><b>Registered Landfill Sites</b></p> <p>Licence Holder: I.C.I. Chemicals &amp; Polymers Ltd            Licence Reference: CLE 170/6            Site Location: I.C.I. No 2 (Teessport), Grangetown, Middlesbrough, Cleveland            Licence Easting: Not Supplied            Licence Northing: Not Supplied            Operator Location: PO.Box 90, Wilton, MIDDLESBROUGH, Cleveland, TS6 8JE            Authority: Environment Agency - North East Region, Dales Area            Site Category: Landfill            Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)            Waste Source: Only waste produced on site            Restrictions:            Status: Record supersededSuperseded            Dated: 10th November 1986            Preceded By: Not Given            Licence:            Superseded By: CLE 170/7            Licence:            Positional Accuracy: Positioned by the supplier            Boundary Accuracy: Moderate            Authorised Waste            Alkalis            All Inorganic Compounds            Asbestos            Canteen Waste            Commercial Waste            Construction Ind. Wastes            Contaminated Materials \$            Fuels, Oils, Greases            Ind. Non-Haz. Inert, Non-Flammable            Ind. Non-Haz. Potentially Combustible            Interceptor Waste, Tar, Paint Etc \$            Max.Waste Permitted By Licence            Metal Oxides            Metals As Trace Contam.Of Group J            Miscellaneous Chemical Waste            Miscellaneous Wastes            Non-Toxic Metal Compounds            Organic Acids + Related Cmpds            Organic Compounds            Other Inorganic Materials            Polymeric Materials And Precursors            Toxic Metal Compounds            Prohibited Waste            Arsenates &amp; Arsenites            Fellmongers Waste            Ferro And Ferri Cyanides            Fluorides Etc \$            Hypochlorites And Chlorites            Inorganic Peroxides            Liable To Cause Environmental Hazards            Organic Peroxides            Other Halogenated Organics            Pcb'S And Analogues            Sodium/Potassium Cyanides            Soluble Complex Cyanides            Sulphides, Selen'S, Tell'S, Arsen'S \$            Tannery Waste            Tetra Ethyl Lead            Tetra Methyl Lead            Waste N.O.S.            Waste Reacts W/Water Prod. Airb. Haz.            Wastes Likely To Cause Odour Emission</p>	(SW)	46	2	454357 522680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: Pd Teesport Ltd            Location: Tees Dock, Grangetown, TS6 6UD            Authority: Redcar and Cleveland Borough Council, Planning Department            Application Ref: R/2010/0696/HD            Hazardous Substance: Ammonium nitrate and ammonium nitrate compounds (where nitrogen content is more than 28% by weight) or aqueous ammonium nitrate solutions (where concentration of ammonium nitrate is more than 90% by weight)            Maximum Quantity: 0            Application date: 8th September 2010  <b>Decision: Unknown at time of report</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	D13NW (NE)	74	7	454738 523027

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: Triassic Rocks (Undifferentiated)	D13NW (NE)	0	1	454658 522899
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	D13NW (NE)	0	1	454658 522899
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	D10NE (SE)	165	1	455654 522463
	<b>BGS Measured Urban Soil Chemistry</b> No data available				
	<b>BGS Urban Soil Chemistry Averages</b> No data available				
	<b>Coal Mining Affected Areas</b> In an area that might not be affected by coal mining				
	<b>Non Coal Mining Areas of Great Britain</b> No Hazard				
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D13NW (NE)	0	1	454658 522899
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D13NW (NE)	0	1	454658 522899
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D13NE (NE)	0	1	454858 523105
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D13NW (NE)	0	1	454658 522899
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D13NW (NE)	0	1	454658 522899
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D13NW (NE)	0	1	454658 522899
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D13NE (NE)	0	1	454858 523105
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D13NW (NE)	0	1	454658 522899
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	D13NW (NE)	0	1	454658 522899
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D13NW (NE)	0	1	454658 522899

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	<p><b>Sites of Special Scientific Interest</b></p> <p>Name: Teesmouth And Cleveland Coast</p> <p>Multiple Areas: Y</p> <p>Total Area (m2): 29770346.879999984</p> <p>Source: Natural England</p> <p>Reference: 1000263</p> <p>Designation Details: Geological Conservation Review</p> <p>Designation Date: 1st November 1984</p> <p>Date Type: Notified</p> <p>Designation Details: Ramsar Site</p> <p>Designation Date: 1st November 1984</p> <p>Date Type: Notified</p> <p>Designation Details: Special Protection Area</p> <p>Designation Date: 1st November 1984</p> <p>Date Type: Notified</p> <p>Designation Details: Site Of Special Scientific Interest</p> <p>Designation Date: 1st November 1984</p> <p>Date Type: Notified</p>	D13NW (NW)	0	9	454581 523015

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Redcar and Cleveland Borough Council - Development Department	September 2014	Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - North East Region	July 2019	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - North East Region	March 2013	Annual Rolling Update
<b>Integrated Pollution Controls</b> Environment Agency - North East Region	October 2008	Variable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - North East Region	July 2019	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Redcar and Cleveland Borough Council - Environmental Health Department	December 2014	Variable
<b>Local Authority Pollution Prevention and Controls</b> Redcar and Cleveland Borough Council - Environmental Health Department Middlesbrough Council - Environmental Health Department	December 2014 June 2015	Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Redcar and Cleveland Borough Council - Environmental Health Department	December 2014	Variable
<b>Nearest Surface Water Feature</b> Ordnance Survey	January 2019	
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - North East Region	December 1998	Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - North East Region	March 2013	Annual Rolling Update
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - North East Region	March 2013	Annual Rolling Update
<b>Registered Radioactive Substances</b> Environment Agency - North East Region	June 2016	
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency - North East Region - Dales Area Environment Agency - North East Region - North East Area	July 2019 July 2019	Quarterly Quarterly
<b>Water Abstractions</b> Environment Agency - North East Region	July 2019	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - North East Region	October 2017	Quarterly
<b>Groundwater Vulnerability Map</b> Environment Agency - Head Office	June 2018	Annually
<b>Bedrock Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually
<b>Superficial Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually
<b>Source Protection Zones</b> Environment Agency - Head Office	July 2019	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	August 2019	Quarterly





Agency & Hydrological	Version	Update Cycle
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	August 2019	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	August 2019	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	August 2019	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	August 2019	Quarterly
<b>OS Water Network Lines</b> Ordnance Survey	April 2019	Quarterly
<b>Surface Water 1 in 30 year Flood Extent</b> Environment Agency - Head Office	October 2013	Annually
<b>Surface Water 1 in 100 year Flood Extent</b> Environment Agency - Head Office	October 2013	Annually
<b>Surface Water 1 in 1000 year Flood Extent</b> Environment Agency - Head Office	October 2013	Annually
<b>Surface Water Suitability</b> Environment Agency - Head Office	October 2013	Annually
<b>BGS Groundwater Flooding Susceptibility</b> British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - Head Office	July 2019	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - North East Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - North East Region - Dales Area Environment Agency - North East Region - North East Area	July 2018 July 2018	Quarterly Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - North East Region - Dales Area Environment Agency - North East Region - North East Area	July 2019 July 2019	Quarterly Quarterly
<b>Local Authority Landfill Coverage</b> Redcar and Cleveland Borough Council	May 2000	Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Redcar and Cleveland Borough Council	May 2000	Not Applicable
<b>Potentially Infilled Land (Non-Water)</b> Landmark Information Group Limited	December 1999	Not Applicable
<b>Potentially Infilled Land (Water)</b> Landmark Information Group Limited	December 1999	Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - North East Region - Dales Area Environment Agency - North East Region - North East Area	March 2003 March 2003	Not Applicable Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - North East Region - Dales Area Environment Agency - North East Region - North East Area	March 2003 March 2003	Not Applicable Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - North East Region - Dales Area Environment Agency - North East Region - North East Area	March 2003 March 2003	Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	April 2018	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	March 2017	Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Redcar and Cleveland Borough Council - Planning Department	April 2016	Variable
<b>Planning Hazardous Substance Consents</b> Redcar and Cleveland Borough Council - Planning Department	April 2016	Variable
Geological	Version	Update Cycle
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
<b>BGS Estimated Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	October 2015	Annually
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	April 2019	Bi-Annually
<b>CBSCB Compensation District</b> Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Property Searches	March 2014	Annual Rolling Update
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
<b>Contemporary Trade Directory Entries</b> Thomson Directories	July 2019	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	September 2019	Quarterly
<b>Gas Pipelines</b> National Grid	July 2014	
<b>Points of Interest - Commercial Services</b> PointX	September 2019	Quarterly
<b>Points of Interest - Education and Health</b> PointX	September 2019	Quarterly
<b>Points of Interest - Manufacturing and Production</b> PointX	September 2019	Quarterly
<b>Points of Interest - Public Infrastructure</b> PointX	September 2019	Quarterly
<b>Points of Interest - Recreational and Environmental</b> PointX	September 2019	Quarterly
<b>Underground Electrical Cables</b> National Grid	December 2015	
Sensitive Land Use	Version	Update Cycle
<b>Ancient Woodland</b> Natural England	August 2018	Bi-Annually
<b>Areas of Outstanding Natural Beauty</b> Natural England	June 2019	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	January 2017	
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	March 2019	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	July 2019	Bi-Annually
<b>National Nature Reserves</b> Natural England	July 2019	Bi-Annually
<b>National Parks</b> Natural England	April 2017	Bi-Annually
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	
<b>Ramsar Sites</b> Natural England	April 2019	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	March 2019	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	June 2019	Bi-Annually
<b>Special Protection Areas</b> Natural England	April 2019	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	 <b>British Geological Survey</b> <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 <b>Centre for Ecology &amp; Hydrology</b> <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: [REDACTED] Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: [REDACTED] Email: enquiries@environment-agency.gov.uk
3	<b>Middlesbrough Council - Environmental Health Department</b> P O Box 65, Vancouver House, Central Mews, Gurney Street, Middlesbrough, TS1 1QS	Telephone: [REDACTED] Website: www.middlesbrough.gov.uk
4	<b>Environment Agency - Head Office</b> Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: [REDACTED]
5	<b>Ordnance Survey</b> Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: [REDACTED] Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	<b>Redcar and Cleveland Borough Council</b> Town Hall, Fabian Road, South Bank, Middlesbrough, Cleveland, TS6 9AR	Telephone: [REDACTED] Website: www.redcar-cleveland.gov.uk
7	<b>Redcar and Cleveland Borough Council - Planning Department</b> Belmont House, Rectory Lane, Guisborough, Cleveland, TS14 6FD	Telephone: [REDACTED] Website: www.redcar-cleveland.gov.uk
8	<b>PointX</b> 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	<b>Natural England</b> County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: [REDACTED] Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	<b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: [REDACTED] Email: radon@phe.gov.uk Website: www.ukradon.org
-	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: [REDACTED] Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk









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

## Geology 1:50,000 Maps Legends




### Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene

### Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	TFD	Tidal Flat Deposits	Sand, Silt and Clay	Not Supplied - Holocene
	TFD	Tidal Flat Deposits	Sand and Silt	Not Supplied - Holocene
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	GLLDD	Glaciolacustrine Deposits, Devensian	Clay and Silt	Not Supplied - Devensian
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GLLDD	Glaciolacustrine Deposits, Devensian	Sand	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	BSA	Blown Sand	Sand	Not Supplied - Quaternary

### Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	RMU	Redcar Mudstone Formation	Mudstone	Not Supplied - Hettangian
	PNG	Penarth Group	Mudstone	Not Supplied - Rhaetian
	MMG	Mercia Mudstone Group	Mudstone	Not Supplied - Early Triassic



### Geology 1:50,000 Maps

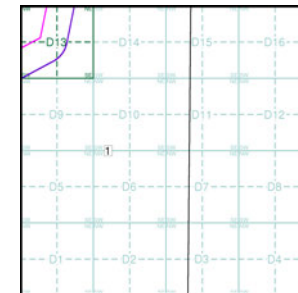
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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:	033
Map Name:	Stockton
Map Date:	1987
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

### Geology 1:50,000 Maps - Slice D



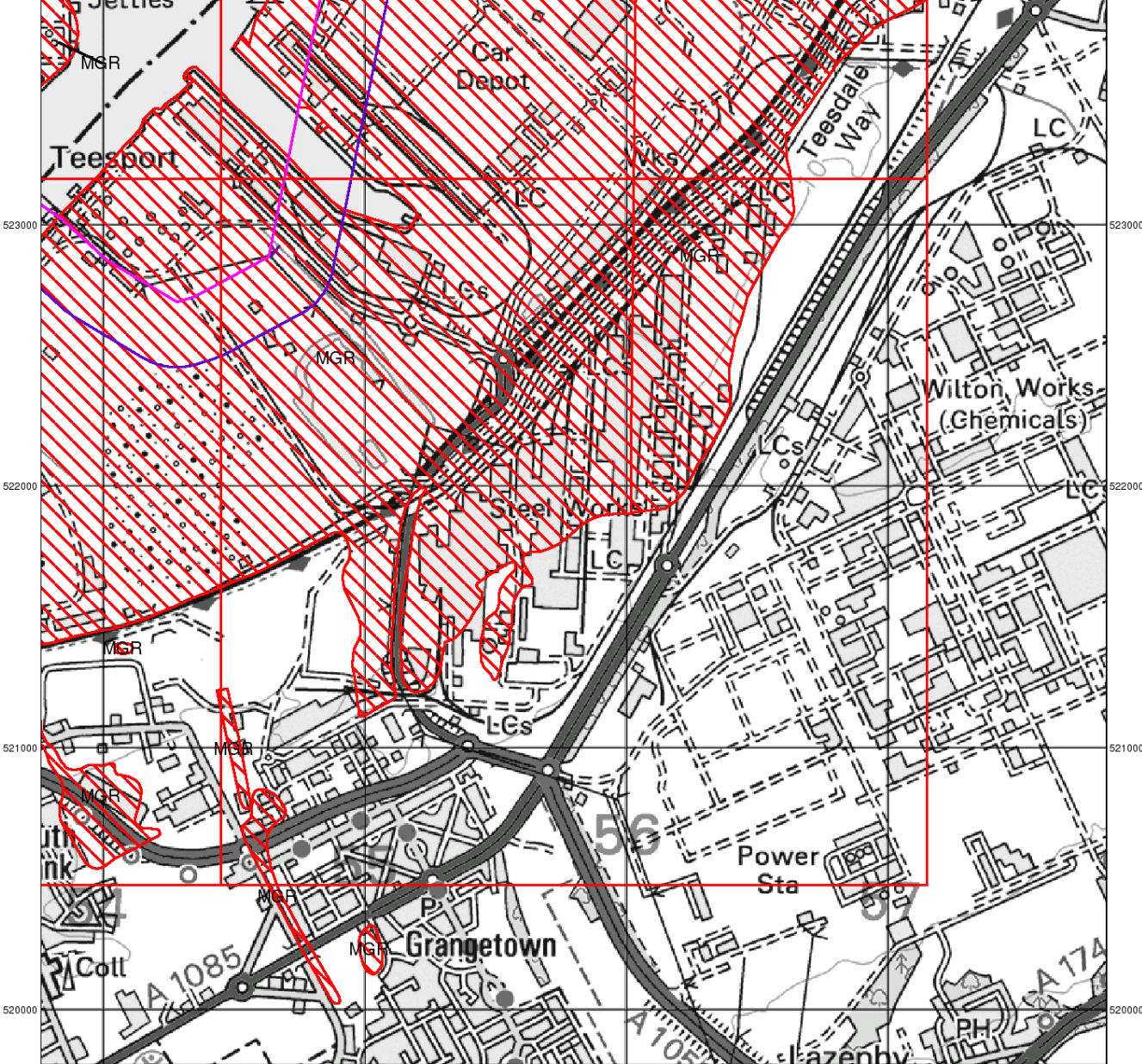
### Order Details:

Order Number:	218629364_1_1
Customer Reference:	60559231/Teesside Clean Gas
National Grid Reference:	454660, 522900
Slice:	D
Site Area (Ha):	1304.99
Search Buffer (m):	250

### Site Details:

Teesside Clean Gas Project 1 of 2

454000 455000 456000 457000



523000 522000 521000 520000

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**Artificial Ground and Landslip**

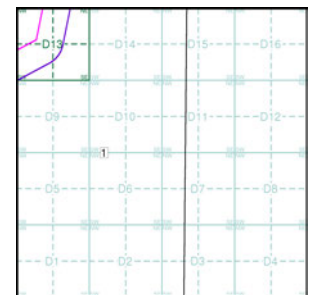
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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



**Order Details:**

Order Number: 218629364\_1\_1  
 Customer Reference: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

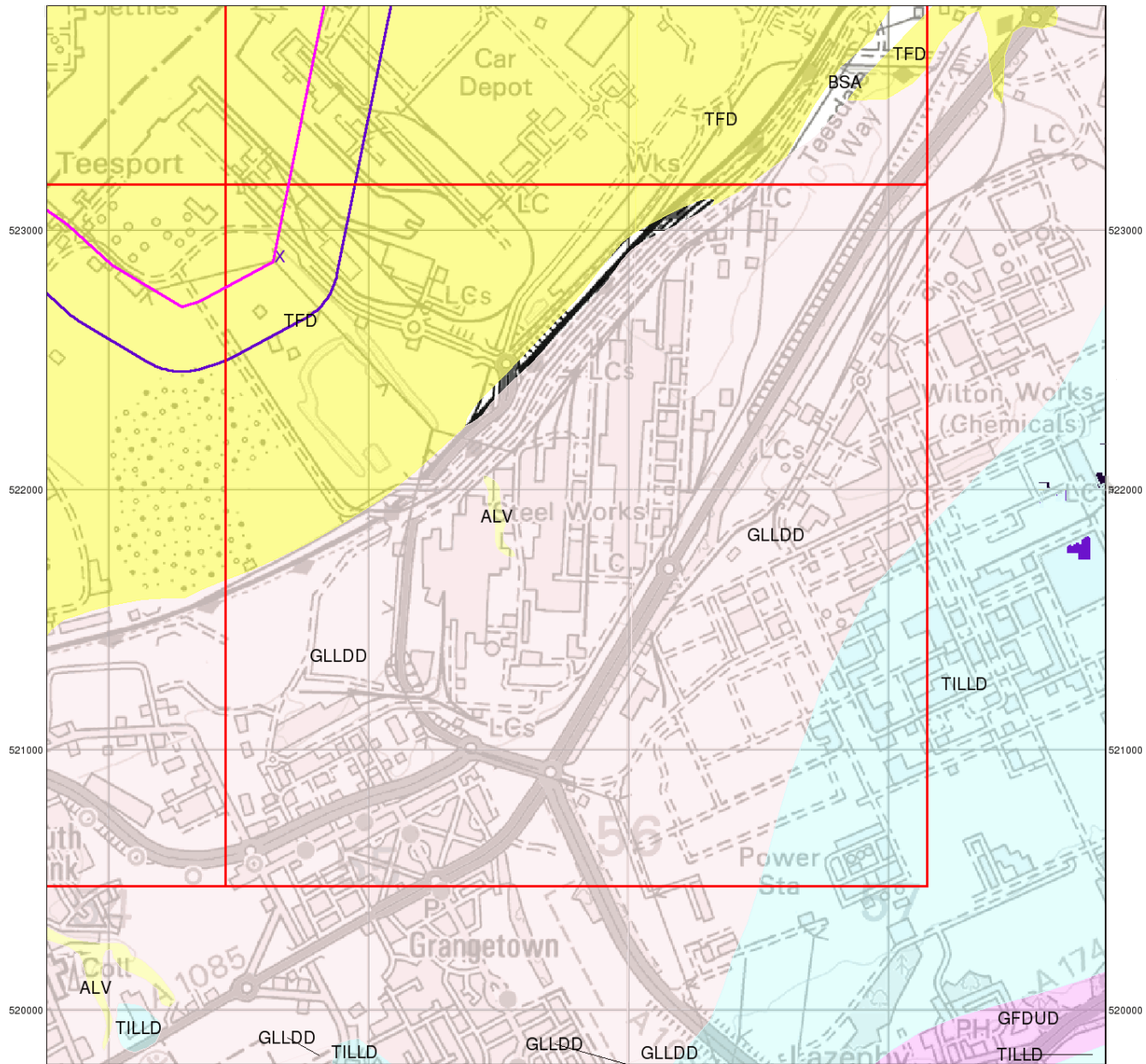
**Site Details:**

Teesside Clean Gas Project 1 of 2



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

454000 455000 456000 457000



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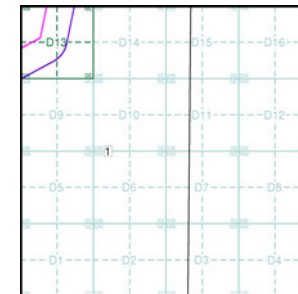
### Superficial Geology

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 D



### Order Details:

Order Number: 218629364\_1\_1  
 Customer Reference: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

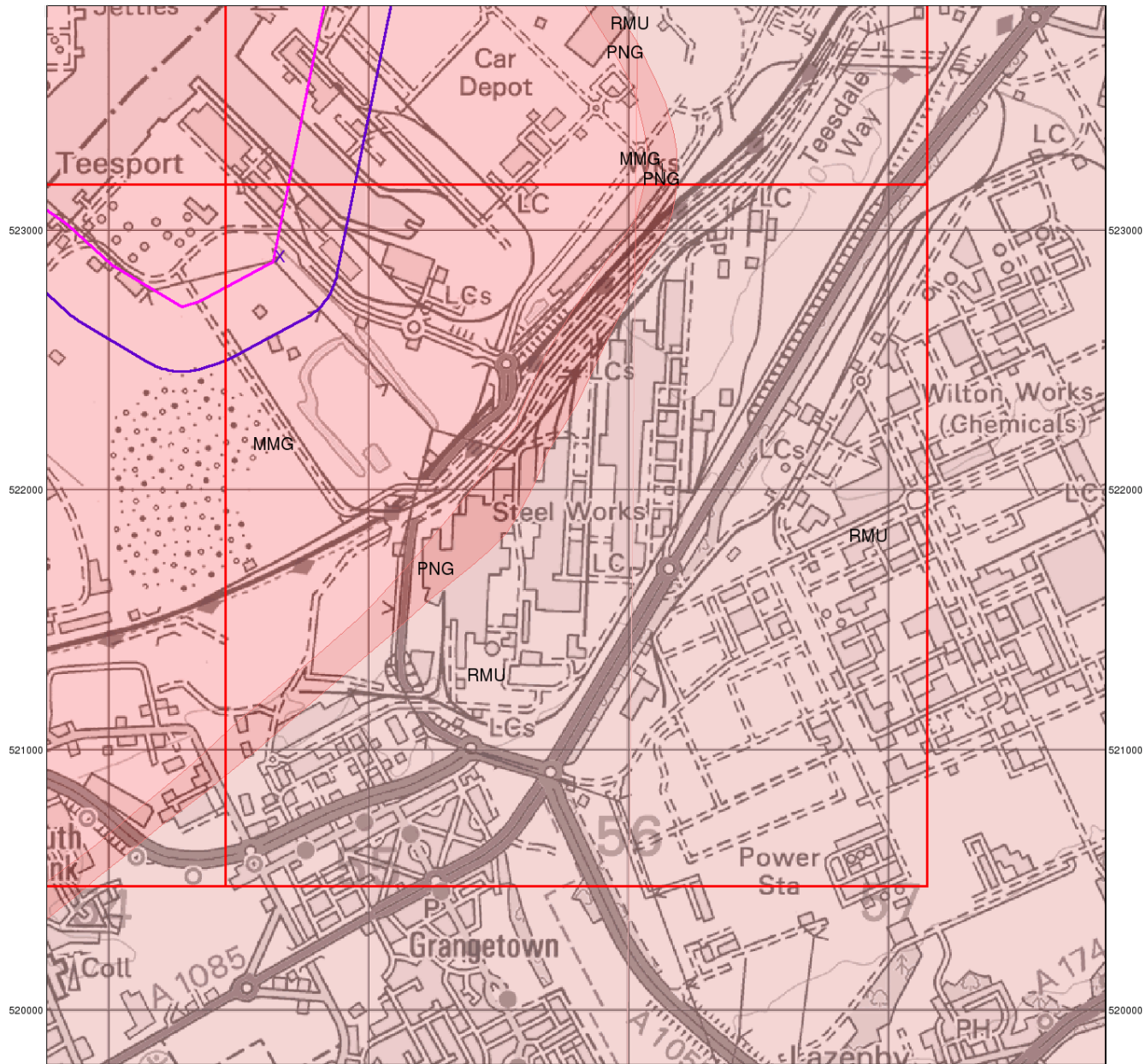
### Site Details:

Teesside Clean Gas Project 1 of 2



Tel: [Redacted]  
 Fax: [Redacted]  
 Web: [Redacted].uk

454000 455000 456000 457000



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### Bedrock and Faults

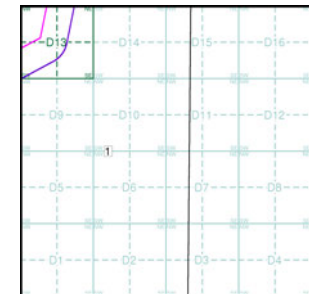
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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 D



### Order Details:

Order Number: 218629364\_1\_1  
 Customer Reference: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

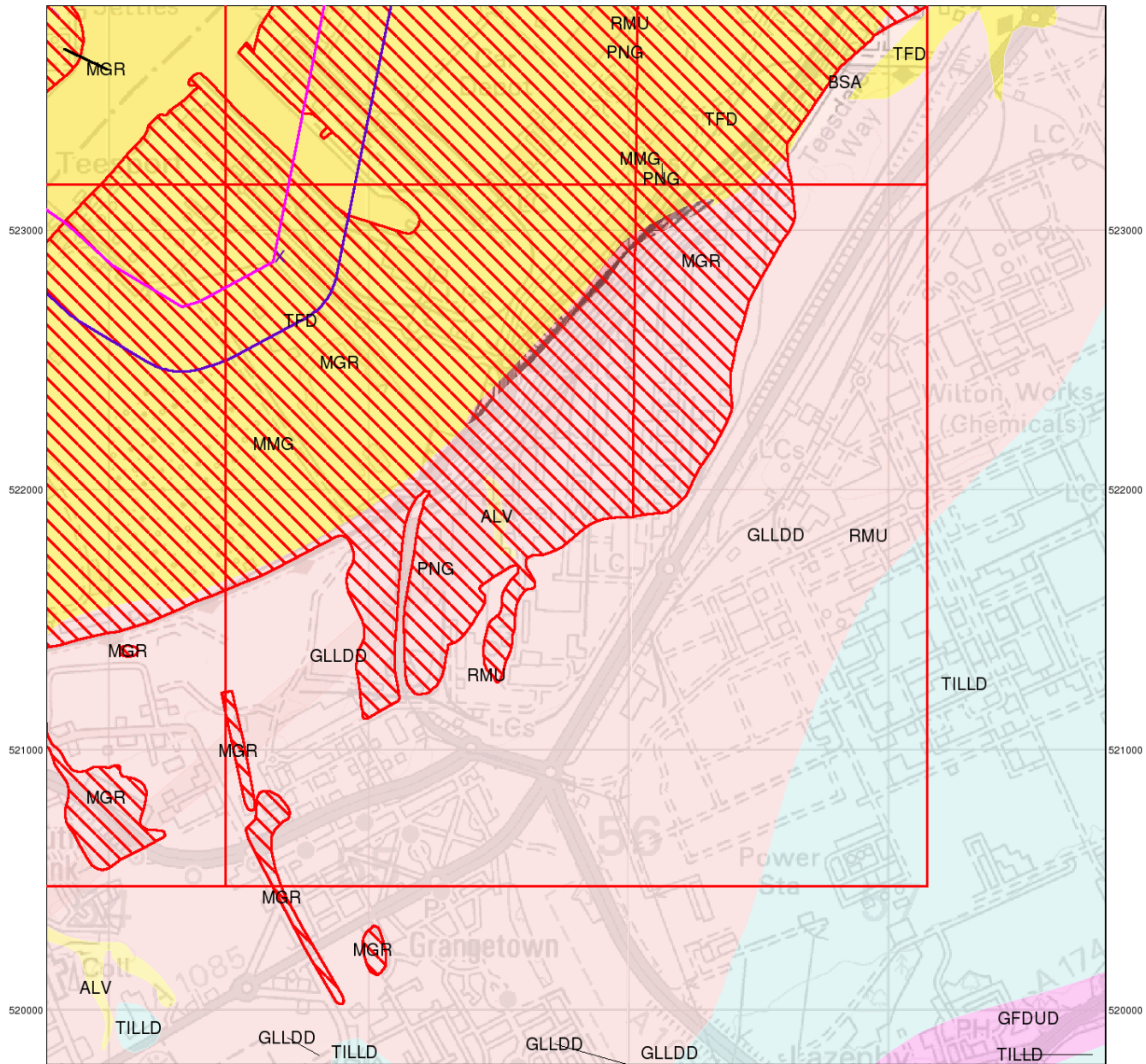
### Site Details:

Teesside Clean Gas Project 1 of 2



Tel: [Redacted]  
 Fax: [Redacted]  
 Web: [Redacted].co.uk

454000 455000 456000 457000



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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

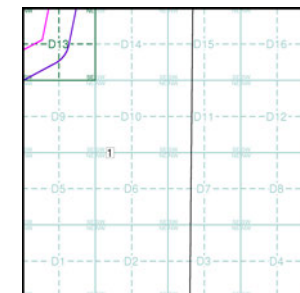
More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

### Contact

British Geological Survey  
 Kingsley Dunham Centre  
 Keyworth  
 Nottingham  
 NG12 5G

email: [enquiries@bgs.ac.uk](mailto:enquiries@bgs.ac.uk)  
 website: [www.bgs.ac.uk](http://www.bgs.ac.uk)

### Combined Geology Map - Slice D



### Order Details:

Order Number:	218629364_1_1
Customer Reference:	60559231/Teesside Clean Gas
National Grid Reference:	454660, 522900
Slice:	D
Site Area (Ha):	1304.99
Search Buffer (m):	250

### Site Details:

Teesside Clean Gas Project 1 of 2

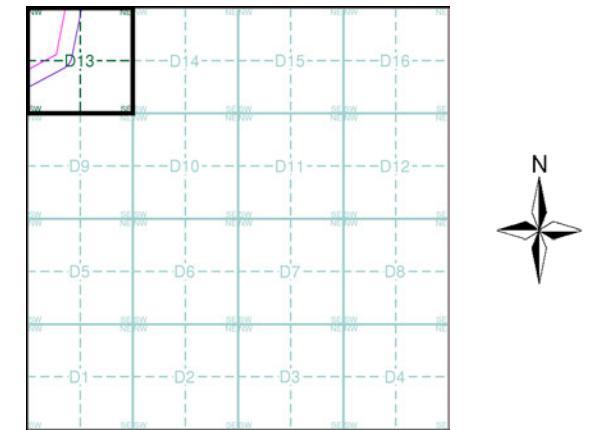


Tel:  
 Fax:  
 Web:

## General

- Specified Site
  - Specified Buffer(s)
  - Bearing Reference Point
  - Map ID
  - Several of Type at Location
  - Pylon
  - Overhead Transmission Line
- ## 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 Enforcement
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Prosecution Relating to Controlled Waters
  - Registered Radioactive Substance
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- ## Waste
- BGS Recorded Landfill Site (Location)
  - BGS Recorded Landfill Site
  - EA Historic Landfill (Buffered Point)
  - EA Historic Landfill (Polygon)
  - Integrated Pollution Control Registered Waste Site
  - Licensed Waste Management Facility (Landfill Boundary)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Potentially Infilled Land (Non-water)
  - Potentially Infilled Land (Non-water)
  - Potentially Infilled Land (Non-water)
  - Potentially Infilled Land (Water)
  - Potentially Infilled Land (Water)
  - Potentially Infilled Land (Water)
  - 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

## Site Sensitivity Map - Segment D13

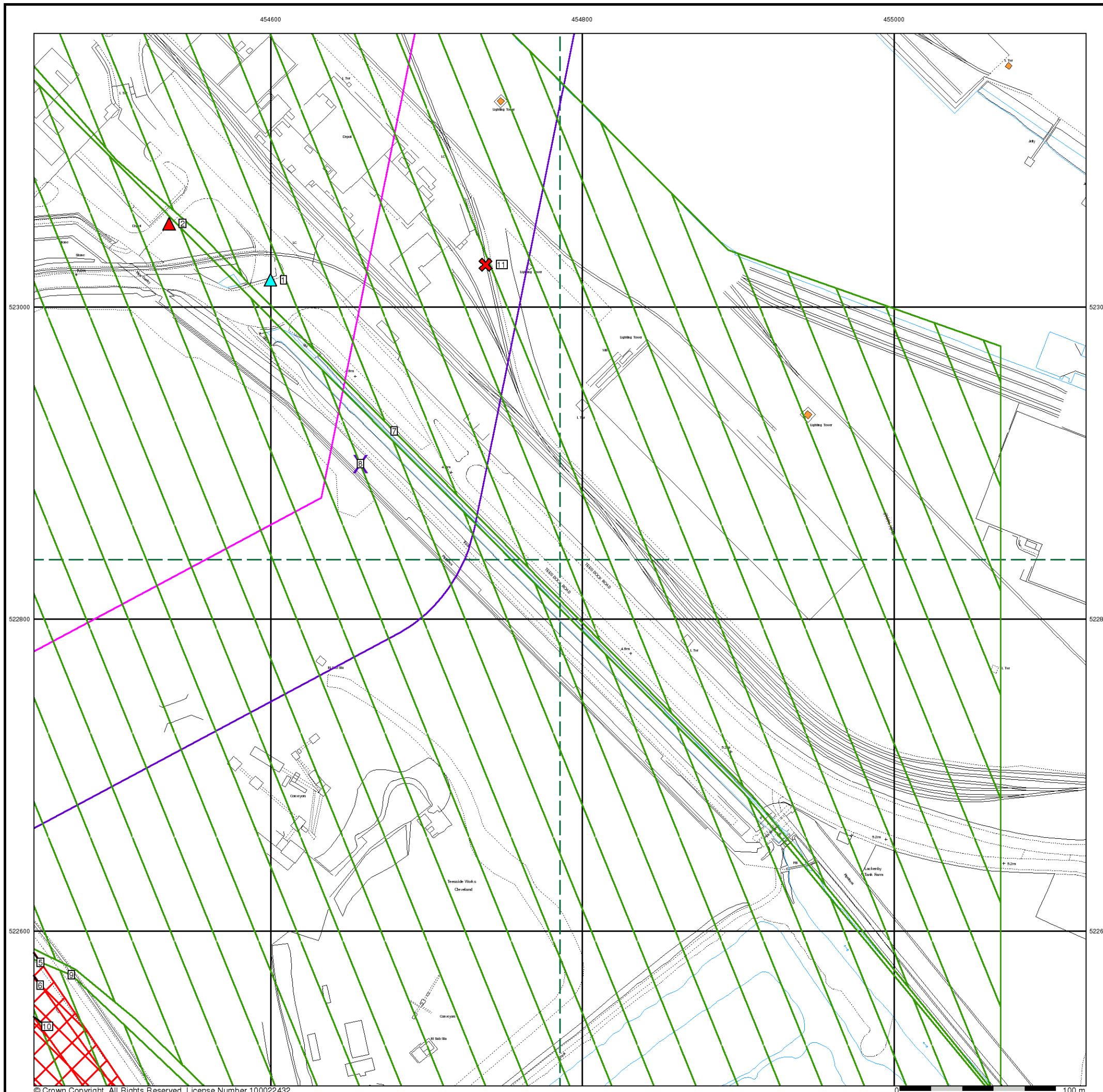


## Order Details

Order Number: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Plot Buffer (m): 100

## Site Details

Teesside Clean Gas Project 1 of 2

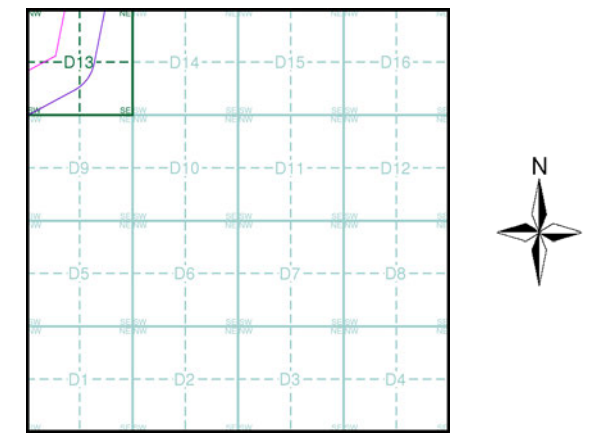






- General**
- Specified Site
  - Specified Buffer(s)
  - Bearing Reference Point
  - Map ID
  - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
  - Contaminated Land Register Entry or Notice
  - Discharge Consent
  - Enforcement or Prohibition 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
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NIHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
  - BGS Recorded Mineral Site
- Waste**
- BGS Recorded Landfill Site (Location)
  - BGS Recorded Landfill Site
  - EA Historic Landfill (Buffered Point)
  - EA Historic Landfill (Polygon)
  - Integrated Pollution Control Registered Waste Site
  - Licensed Waste Management Facility (Landfill Boundary)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Potentially Infilled Land (Non-water)
  - Potentially Infilled Land (Non-water)
  - Potentially Infilled Land (Non-water)
  - Potentially Infilled Land (Water)
  - Potentially Infilled Land (Water)
  - Potentially Infilled Land (Water)
  - Potentially Infilled Land (Water)
  - Registered Landfill Site
  - 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

**Site Sensitivity Map - Slice D**



**Order Details**

Order Number: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250






**Site Details**

Teesside Clean Gas Project 1 of 2







### Industrial Land Use Map

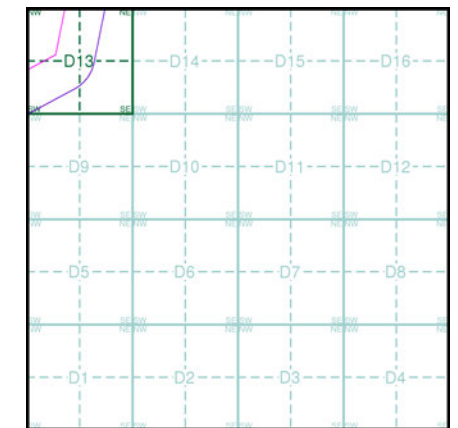
#### General

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

#### Industrial Land Use

-  Contemporary Trade Directory Entry
-  Fuel Station Entry
-  Gas Pipeline
-  Points of Interest - Commercial Services
-  Points of Interest - Education and Health
-  Points of Interest - Manufacturing and Production
-  Points of Interest - Public Infrastructure
-  Points of Interest - Recreational and Environmental
-  Underground Electrical Cables

### Industrial Land Use Map - Slice D



#### Order Details

Order Number: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

#### Site Details

Teesside Clean Gas Project 1 of 2



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



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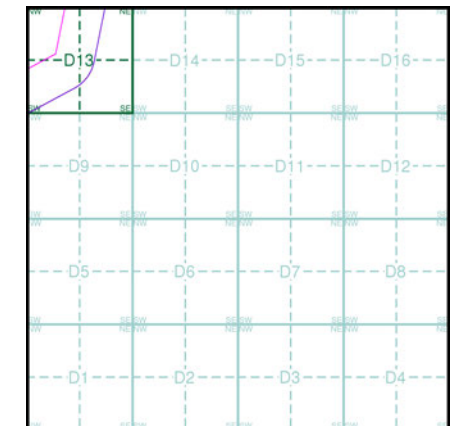
### General

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

### Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

### Flood Map - Slice D



### Order Details

Order Number: 218629364\_1\_1  
Customer Ref: 60559231/Teesside Clean Gas  
National Grid Reference: 454660, 522900  
Slice: D  
Site Area (Ha): 1304.99  
Search Buffer (m): 250

### Site Details

Teesside Clean Gas Project 1 of 2



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



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**General**

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

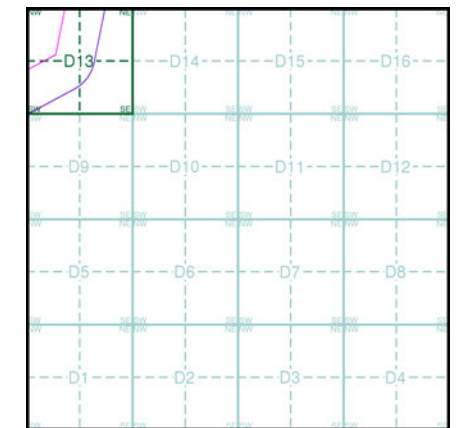
**Agency and Hydrological (Boreholes)**

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

For Borehole information please refer to the Borehole .csv file 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](http://www.envirocheck.co.uk).

**Borehole Map - Slice D**



**Order Details**

Order Number: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

**Site Details**

Teesside Clean Gas Project 1 of 2



**General**

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

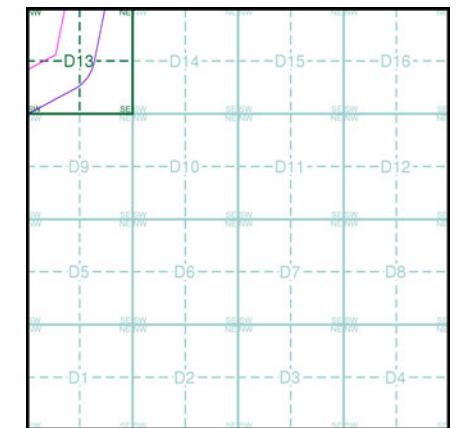
**OS Water Network Data**

- |  |              |  |                         |
|--|--------------|--|-------------------------|
|  | Canal        |  | Drain                   |
|  | Reservoir    |  | Other                   |
|  | Foreshore    |  | Lake                    |
|  | Marsh        |  | Transfer                |
|  | Tidal River  |  | Lock Or Flight Of Locks |
|  | Inland River |  | Sea                     |

**Contours (height in meters)**

- Standard Contour 105 Mean Low Water
- Master Contour 100 Mean High Water
- Spot Height 167.3

**OS Water Network Map - Slice D**



**Order Details**

Order Number: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

**Site Details**

Teesside Clean Gas Project 1 of 2



Tel:   
 Fax:   
 Web:



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### General

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

### Risk of Flooding from Surface Water

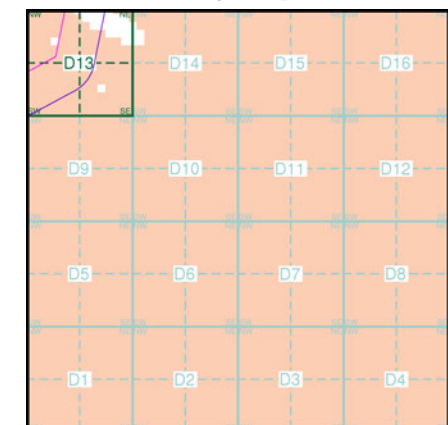
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

### Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

### EANRW Suitability Map - Slice D



### Order Details

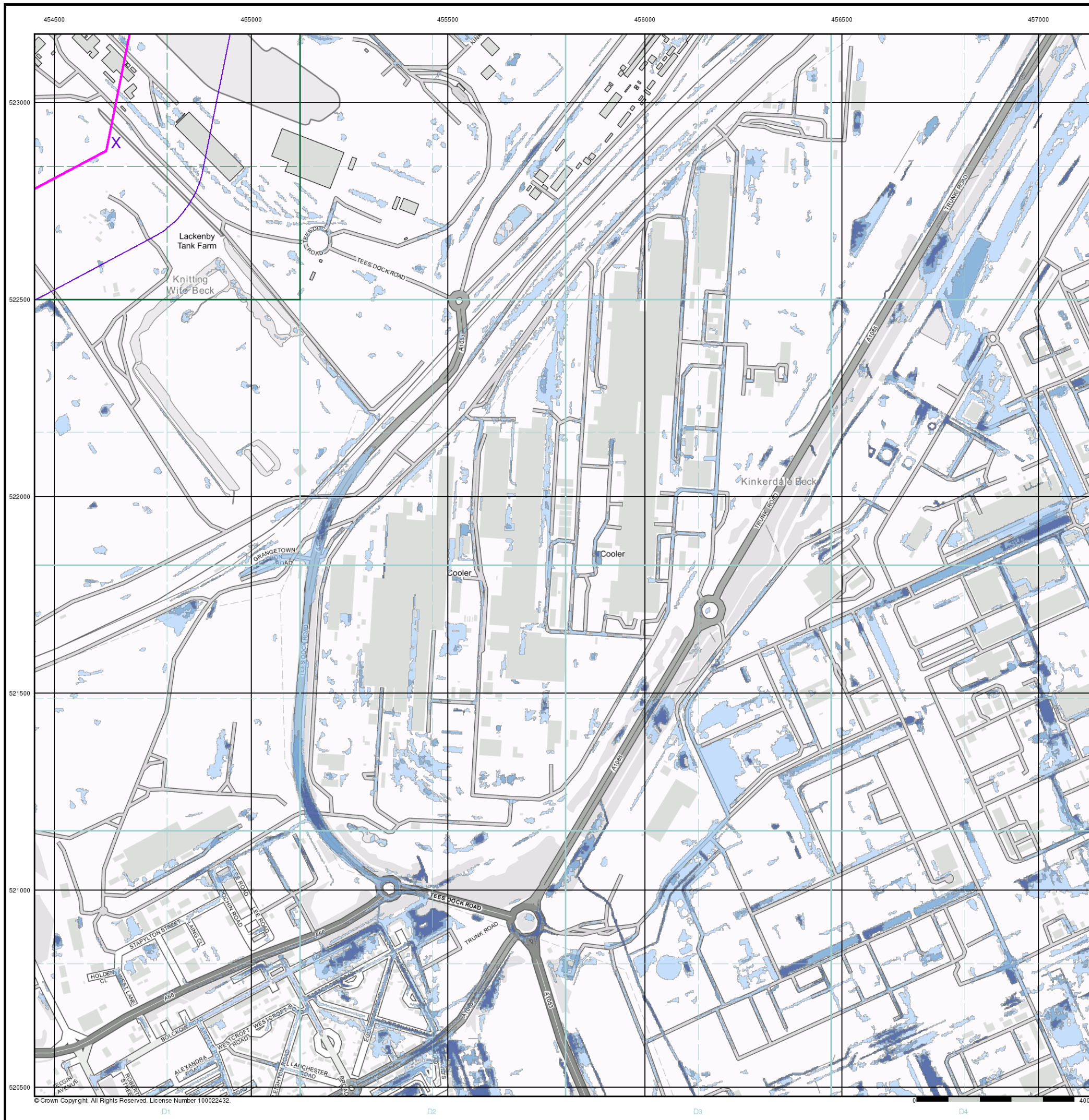
Order Number: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

### Site Details

Teesside Clean Gas Project 1 of 2



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



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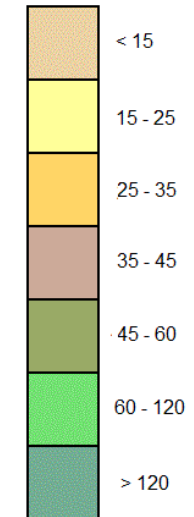


**General**

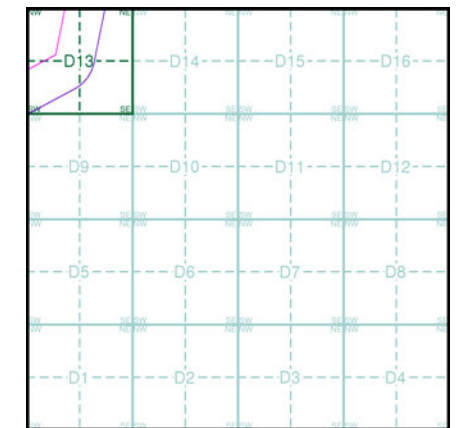
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

**Estimated Soil Chemistry Arsenic**

Arsenic Concentrations mg/kg



**Estimated Soil Chemistry Arsenic - Slice D**



**Order Details**

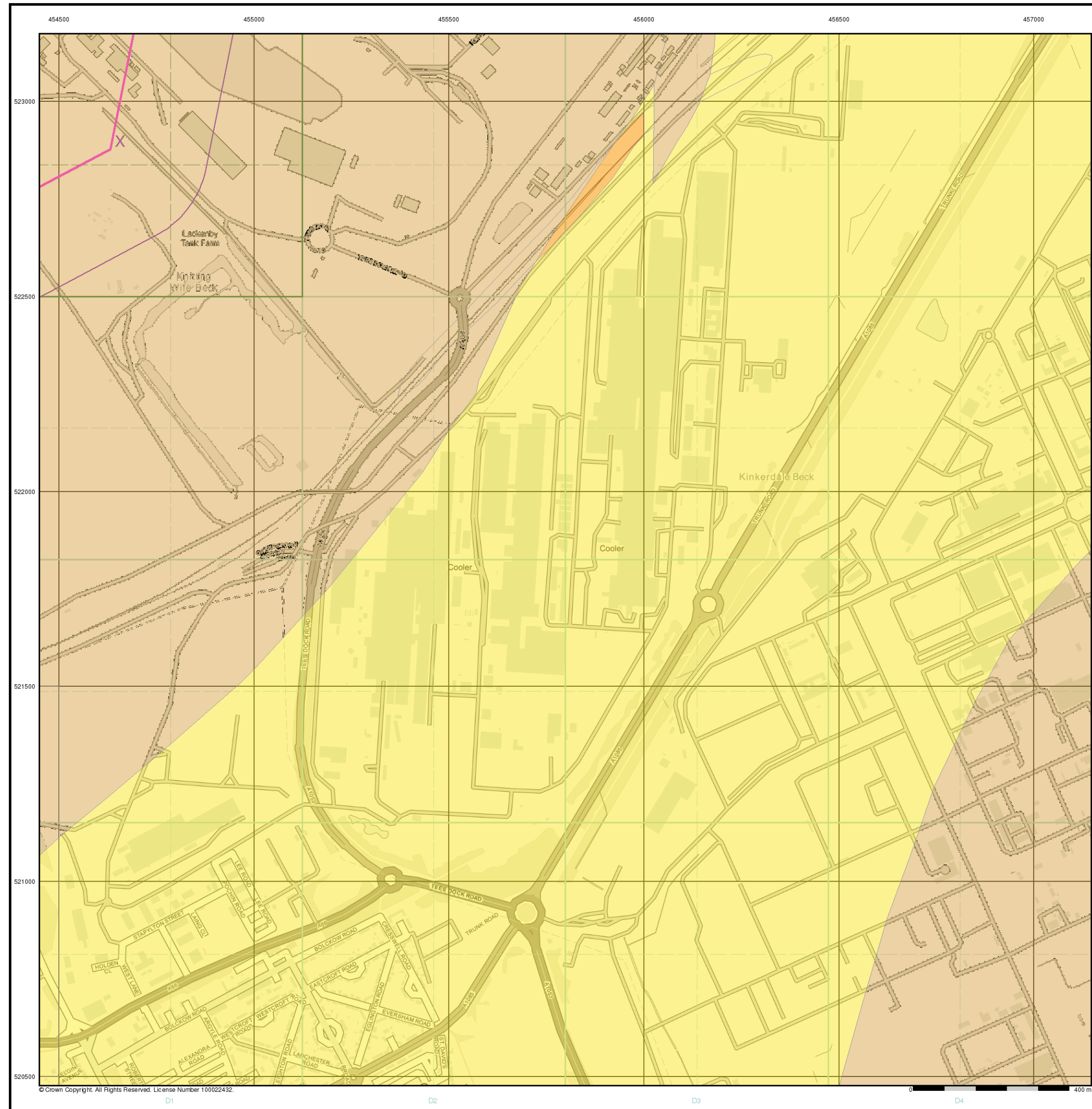
Order Details: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

**Site Details**

Teesside Clean Gas Project 1 of 2



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



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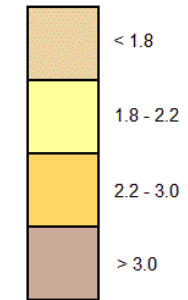


**General**

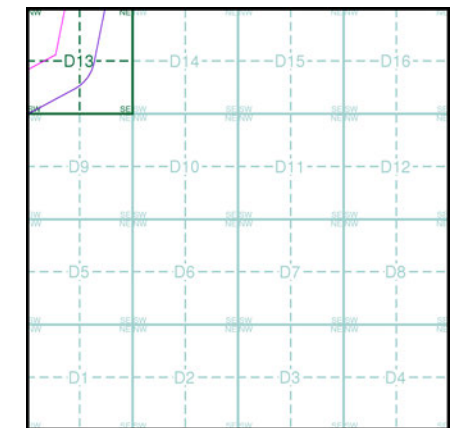
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

**Estimated Soil Chemistry Cadmium**

Cadmium Concentrations mg/kg



**Estimated Soil Chemistry Cadmium - Slice D**



**Order Details**

Order Details: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

**Site Details**

Teesside Clean Gas Project 1 of 2



Tel:   
 Fax:   
 Web:





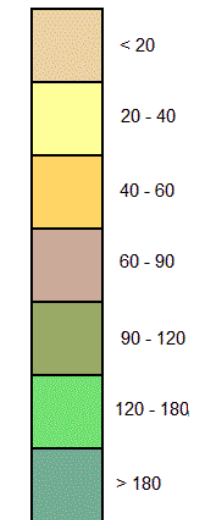


### General

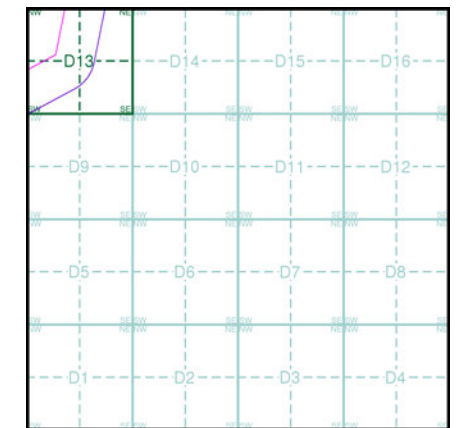
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

### Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



### Estimated Soil Chemistry Chromium - Slice D



### Order Details

Order Details: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

### Site Details

Teesside Clean Gas Project 1 of 2



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



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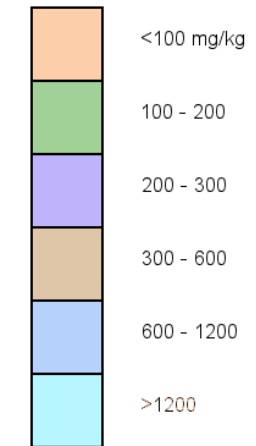


**General**

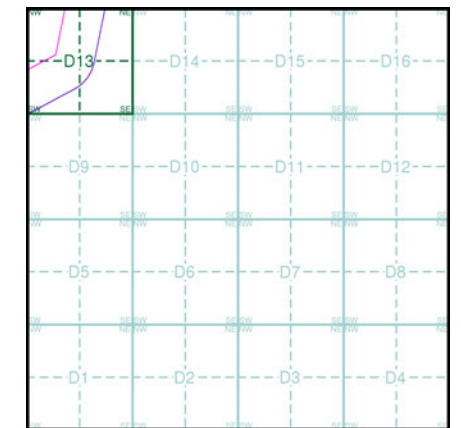
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

**Estimated Soil Chemistry Lead**

Lead Concentrations mg/kg



**Estimated Soil Chemistry Lead - Slice D**



**Order Details**

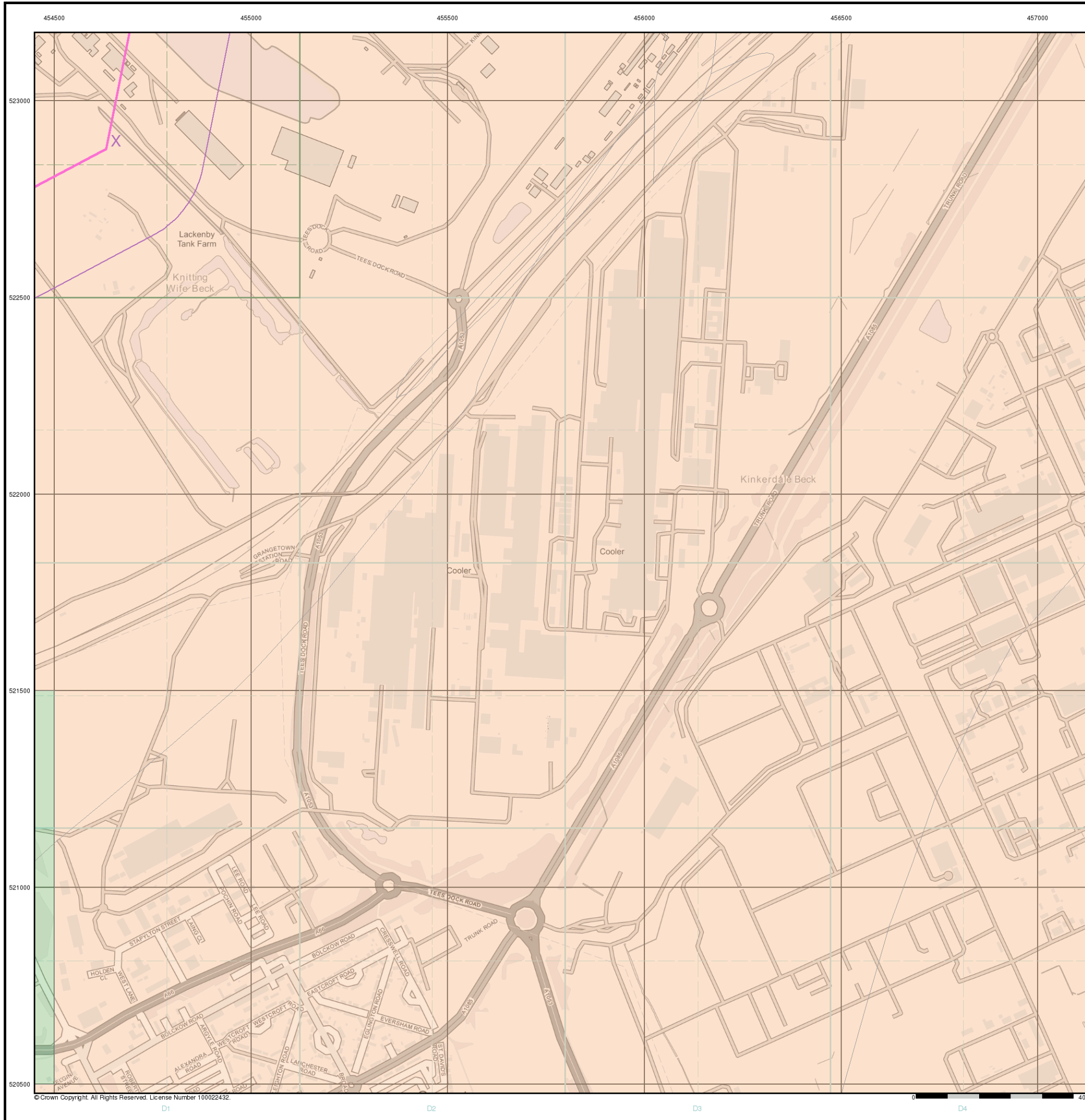
Order Details: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

**Site Details**

Teesside Clean Gas Project 1 of 2



Tel:   
 Fax:   
 Web:



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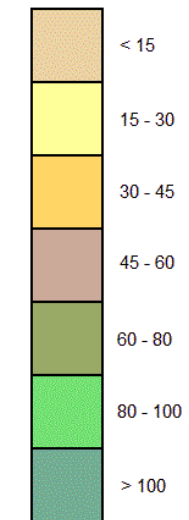


**General**

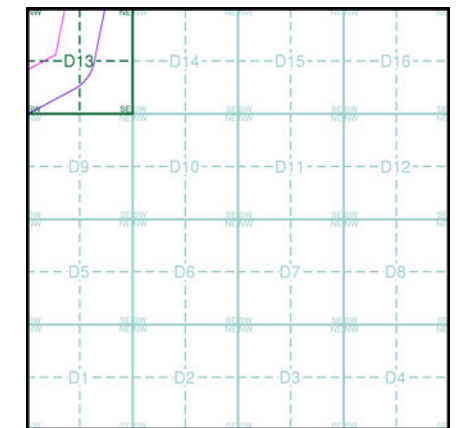
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

**Estimated Soil Chemistry Nickel**

Nickel Concentrations mg/kg



**Estimated Soil Chemistry Nickel - Slice D**



**Order Details**

Order Details: 218629364\_1\_1  
 Customer Ref: 60559231/Teesside Clean Gas  
 National Grid Reference: 454660, 522900  
 Slice: D  
 Site Area (Ha): 1304.99  
 Search Buffer (m): 250

**Site Details**

Teesside Clean Gas Project 1 of 2



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

