

# Geology 1:10,000 Maps Legends

#### **Artificial Ground and Landslip**

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WGR	Worked Ground (Undivided)	Unknown Lithology	Present Day - Present Day
	WMGR	Infilted Ground	Unknown Lithology	Present Day - Present Day
	MGR	Made Ground (Undivided)	Unknown Lithology	Present Day - Present Day

#### **Bedrock and Faults**

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	BGS	Bagshot Formation	Sand	Eocene - Eocene
	CLGB	Claygate Member	Sandstone	Eccene - Eccene
	LC	London Clay Formation	Ciay	Eocene - Eocene



# Geology 1:10,000 Maps

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

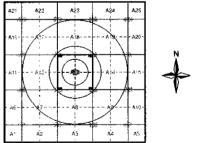
The various geological layers - artificial and landstip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology map. All map legends feature on this page.

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

## Geology 1:10,000 Maps Coverage

Map ID: Map Name: Map Date: Bedrock Geology: TO28NE 1999 Aveileble Superficial Geology: Available Artificial Geology: Available Not Available Rock Segm Not Available

# Geology 1:10,000 Maps - Slice A



#### Order Details

Order Number: 27013457\_1\_1 Customer Ref: National Grid Reference: 528130, 187200

Site Area (Ha):

0.01 Search Buffer (m): 1000

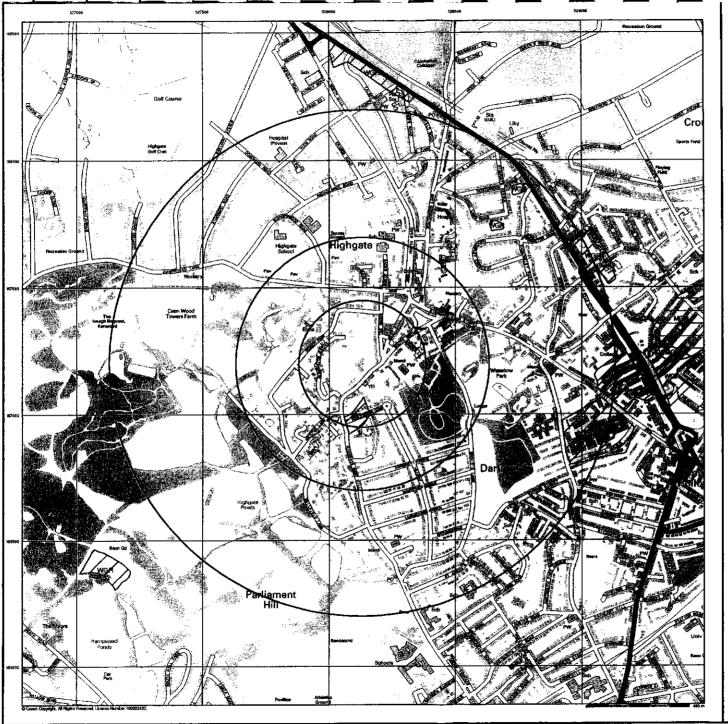
#### Site Details

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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.

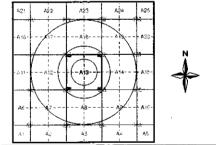
Artificial ground includes:

- 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 quaries 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 A



#### Order Details

27013457\_1\_1 Order Number: Customer Ref: National Grid Reference: 528130, 187200

Site Area (Ha): Search Buffer (m): 0.01 1000

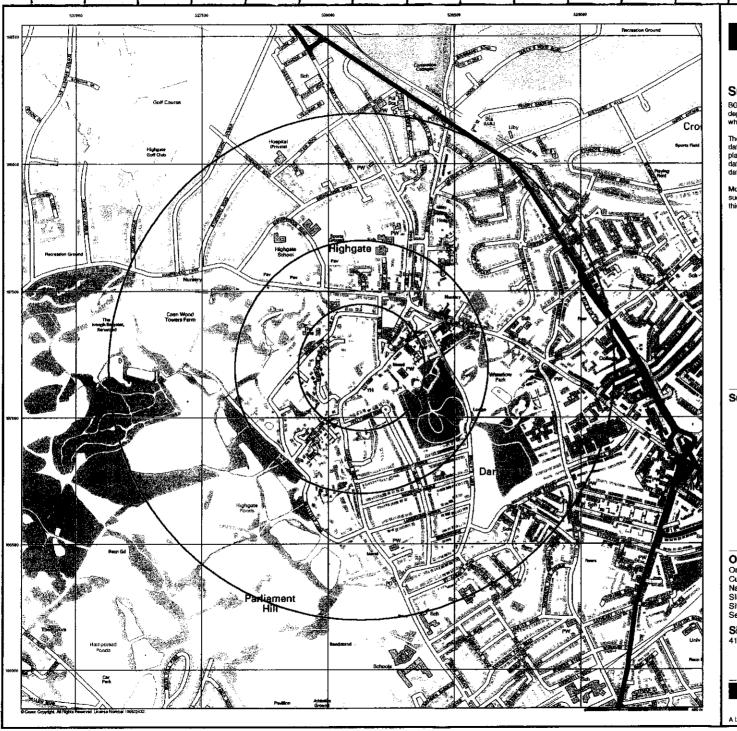
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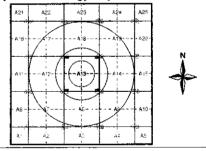
# Superficial Geology

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

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

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

#### Superficial Geology Map - Slice A



#### **Order Details**

Order Number: 27013457\_1\_1 Customer Ref: 3966 National Grid Reference: 528130, 187200 A 0.01

Site Area (Ha): Search Buffer (m):

1000

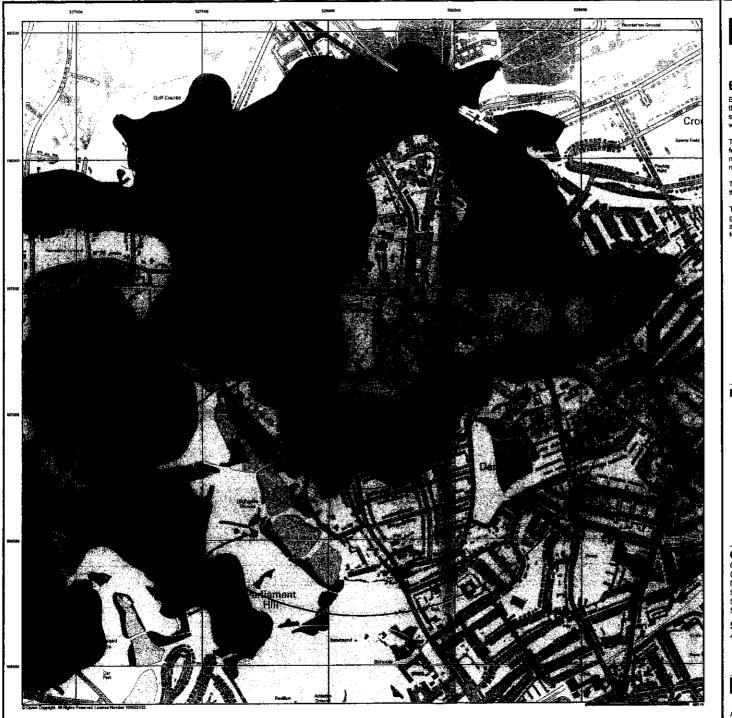
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#### **Bedrock and Faults**

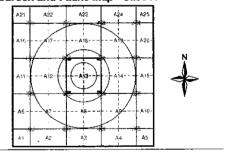
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or

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

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

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

#### Bedrock and Faults Map - Slice A



#### Order Details

27013457\_1\_1 Order Number: Customer Ref: 3966 National Grid Reference: 528130, 187200 Customer Ref:

Slice:

Site Area (Ha): Search Buffer (m):

0.01

Site Details

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### Combined Surface Geology

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

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

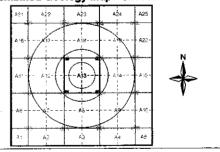
#### Additional Information

More information on 1:10,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the of lock classifications can be found of it all poses weather. Soing line 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@bqs.ac.uk website: www.bgs.ac.uk

## Combined Geology Map - Slice A



#### **Order Details**

27013457\_1\_1 Order Number: Customer Ref: National Grid Reference: 528130, 187200 Slice:

Site Area (Ha): 0.01 Search Buffer (m):

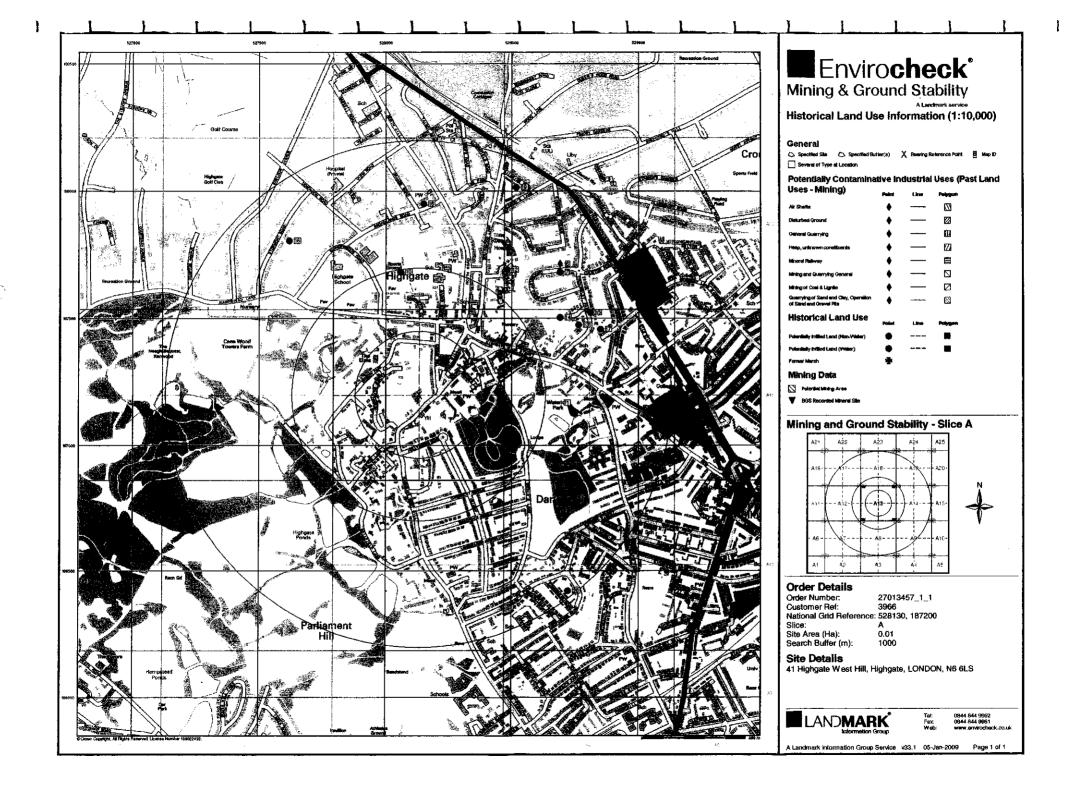
#### Site Details

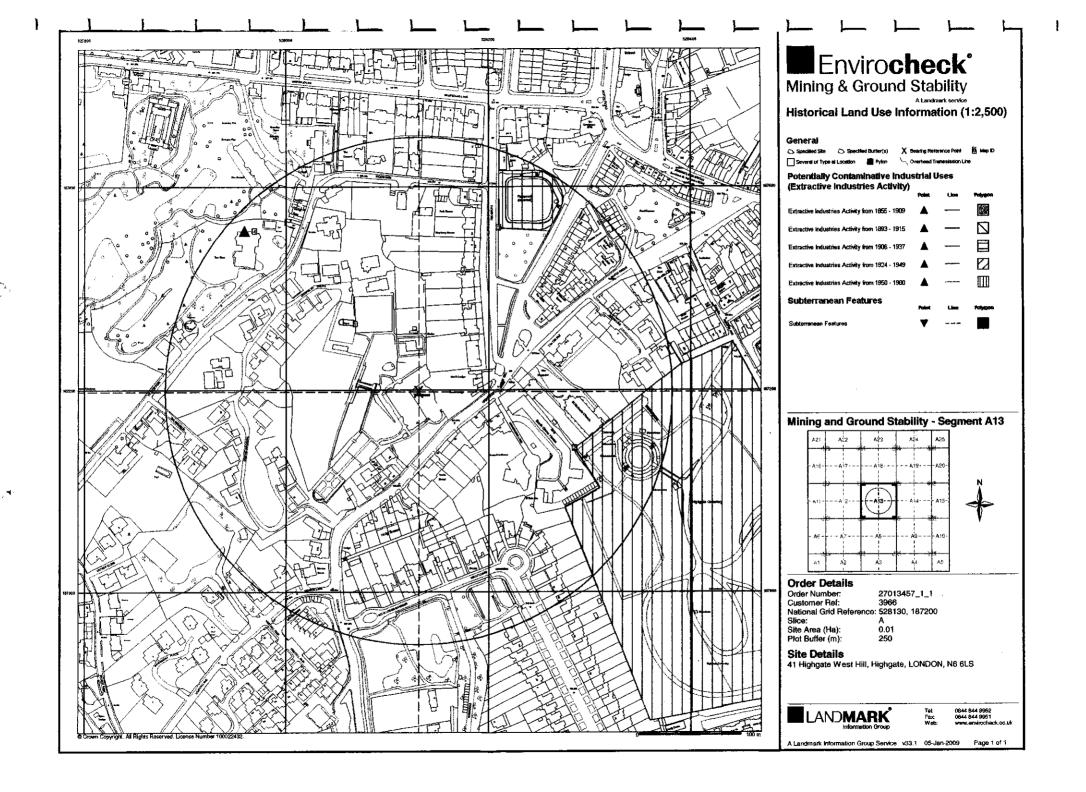
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# **Historical Mapping Legends**

# **Ordnance Survey County Series and** Ordnance Survey Plan 1:10,560 Orchard Mixed Wood Deciduous Rough Pasture Pump, Guide Post, Well, Spring, Signal Post **Boundary Post** Instrumental Contour Level Crossing Road over County Boundary (Geographical) County & Civil Parish Boundary Administrative County & Civil Parish Boundary County Borough Boundary (England) County Burgh Boundary (Scotland) Co. Burgh Bdy Y. . . . , . , v. R.D. Bdy. Rural District Boundary

····· Civil Parish Boundary

Oı	rdnance Surve	y Plan 1	:10,000
Emman	Chalk Pit, Clay Pft or Quarry		, Gravel Pit
	Sand Pit	(	Disused Pit ✓ or Quarry
	Refuse or Slag Heap	<b>@</b>	Lake, Loch or Pond
Same.	Dunes	0000	Boulders
* * *	Coniferous Tr <del>aes</del>	$^{\circ}$	Non-Coniferous Trees
фф	Orchard βο	Scrub	\Y <sub>n</sub> Coppice
ជា ជា បា	Bracken SMIII	Heath '	Rough Grassland
<u>2-</u>	MarshV///	Reeds	그녀 Saltings
-	Direct Building	tion of Flow of Y	Mater  * 0 . 0 o * a Stringle  Send
***	Glasshouse		
	Sloping Masonry	Pylon	Line
Cutting	h //	Foot Bridge	Standard Gauge Multiple Track Standard Gauge Single Track Siding, Transway or Mineral Line
<del></del>	<del> </del>	<del></del>	→ Narrow Gauge
	Geographical Col	ounty, County B	
	Borough, Burgh	or County Cons	ditioner
	Shown only when as Civil Partiels	el coincident with a	outse bassed suffic
Ch ( CH ( FESta F	Boundary Poet or Stone Church Church Fire Engline Stalloer Foot Bridge Fountain	PO F PC F PH F	Police Station Post Office Public Convenience Public House Bignet Box Spring
GP (	Ruide Post die Post die Store	TCB 1	Felephone Call Box Felephone Call Post Well

# 1:10,000 Raster Mapping

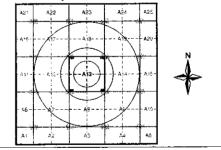
(EB)	Gravel Pit		Refuse tip or slag heap
	Rock	~ - ^	Rock (scattered)
*****	Boulders	•.••.	Boulders (scattered)
2592	Shingle		Mud
Sent	Sand	(99.00)	Sand Pit
mm	Slopes	מדידורות הנונננננה	Top of cliff
	General detail		Underground detail
	Overhead detail	<del></del>	Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)	•••••	Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency toundary
	Area of wooded vegetation		Non-coniferous trees
۵ ۵	Non-coniferous trees (ecattered)		Coniferous trees
		କ	
φ *	trees (ecattered) Coniferous	Ą	trees Positioned
* *	trees (scattered) Coniferous trees (scattered)	رس. درس.	trees Positioned tree Coppice
\$ # # # # #	trees (ecattered) Coniferous trees (ecattered) Orchard Rough	عرفلاند.	Positioned tree Coppice or Osiers
\$ # # # # # # # # # # # # # # # # # # #	trees (ecattered) Coniferous trees (scattered) Orchard Rough Grassland	allita allita	Positioned tree Copplee or Oeiers Heath Marsh, Salt
\$ # # # # # # # # # # # # # # # # # # #	trees (ecattered) Coniferous trees (scattered) Orchard Rough Grassiand Scrub	allita allita	trees Positioned tree Copplee or Osiers Heath Marsh, Salt Marsh or Reeds
\$ # # # # # # # # # # # # # # # # # # #	trees (ecattered)  Coniferous trees (scattered)  Orchard  Rough Grassland  Scrub  Water feature  Mean high	W/	Positioned tree  Coppice or Osiers  Heath  Marsh, Salt Marsh or Reeds  Flow arrows  Mean low
\$ # # # # # # # # # # # # # # # # # # #	trees (ecattered)  Coniferous trees (scattered)  Orchard  Rough Grassiand  Scrub  Water feature  Mean high water (springs)  Telephone line (where shown)  Bench mark (where shown)	W/	Positioned tree  Copploe or Oeiers  Heath  Marsh, Sait Marsh or Reeds  Flow arrows  Mean low water (springs)  Electricity transmission line
# # # # # # # # # # # # # # # # # # #	trees (ecattered)  Coniferous trees (scattered)  Orchard  Rough Grassland  Scrub  Water feature  Mean high water (springs)  Telephone line (where shown)  Bench mark		Positioned tree  Coppice or Oeiers  Heath  Marsh, Salt Marsh or Reeds  Flow arrows  Mean low water (springs)  Electricity transmission line (with poles)  Triangulation
# # # # # # # # # # # # # # # # # # #	trees (ecattered)  Coniferous trees (scattered)  Orchard  Rough Grassland  Scrub  Water feature  Mean high water (springs)  Telephone line (where shown)  Bench mark (where shown)  Point feature (e.g. Guide Post		Positioned tree  Copploe or Oeiers  Heath  Marsh, Salt Marsh or Reeds  Flow arrows  Mean low water (springs)  Electricity transmission line (with poles)  Triangulation station  Pylon, flare stack



# Historical Mapping & Photography included:

Mapping Type	Scale	Date	P
Micklegex	1:10,560	1873 - 1876	
London	1:10,560	1896	7
Middlesex	1:10,560	1896	-
Middlesex	1:10,560	1916	
London	1:10,560	1920	
Middlesex	1:10,560	1935 - 1938	
Essex	1:10,580	1946	
Historical Aprial Photography	1:10,560	1950	1
Ordnance Survey Plan	1:10,560	1951	1
Ordnance Survey Plan	1:10,580	1958	_1
Ordnance Survey Plan	1:10,560	1968	1
Ordnance Survey Plan	1:10,000	1976	1
London	1:25,000	1985	1
Ordnance Survey Plan	1:10,000	1996	1
19K Rester Mapping	1:10,000	1999	_ 1
10K Rester Mapping	1:10.000	2006	1

# Historical Map - Slice A



#### **Order Details**

Order Number: 27013457\_1\_1
Customer Ref: 3966
National Grid Reference: 528130, 187200
Slice: A
Site Area (Ha): 0.01

Search Buffer (m): 1000

Site Details

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# **Russian Military Mapping Legends**

9 жеды

Mine or

Open Pt Mine

Trailings Pile

Fuel Storage or

National Class Tank

# 6.mp

Trensformer

A 92.6

Telephone Station

Ŷ

Landing Strip

(former truck road)

lanhath with value

• 347.1

Scrub

Width of Read

Point

1:25,000 mapping 1:5.000 and 1:10,000 mapping a. Not drawn to scale b. Drawn to scale a. Not drawn to acale b. Drawn to scale Government and Industrial Buildings Industrial Buildings Administrative Buildings Military and Subway Entrance Subway Entrance Communication Areas Partly Demoëshed Demolished Buildings Fireproof Building Built-Up Area with Built-Up Area with Non-fireproof Building Fireproof Buildings Non-Fireproof Buildings Non-fireproof Building Individual Fireproof Prominent Industrial Factory, mill, and flour mill, without chimneys Ruins of an Individual Individual Dwelling, Power Station, Hydroelectric r ₫ бут Down Station C CKF3 Factory or Mill Factory or Mill Factoryor with Chimney ethout Chimaney Radio Station Telephone Station draws to scale drawn to scale dill con х кажуг. Non-Operating Shaft or Mine Operating Shaft or Mine Open-pit Salt Mine Open-pit Mine all b ę а в мефти а ф мофець SS -1.7 å b (7-1,5 Gas Pump or (ШПППР) Ь шшш ь PR Stone Quarry Oil Deposit or Well Oil Seepage × 00 0 Small Hydroelectric (+7.5); OFFICE CICA. ZOD. Fuel Storage Tanks <u>ه</u> 🙆 A 25.7 D # +81 **☆**+2.0 +1.2 森 67.8 Runtel Mound Cometers on Burisi Mound Triangulation Point on Burial Mound (height in metres) Rench Mark Drift Hole × E 52./ e 71.7 Banch Mark Bench Mark Telegraph Office (monumented) жун. ruamd Double-track (Culvert) ş Single-track Railroad Railroad and Station Building Airfield or Abxed Forest Improved Dirt Road Highway under Scattered Citrus Orchard Wet Ground Dismontied Refront 243.8 Values for prominent elevations Double-track Railroad with Numbers for spot elevations, depth soundings, First Class Station Retroad Under Construction Valocity of the current, width of river bad, depth of river Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and Shore River or Ditch with the dismeter of trace Emhanisment Embankment Russian Alphabet (Forreference and phonetic interpretation of map text) · K 😤 (e-coa) Ч ч (СН) Π B (P) A 2 (A) 33 (Z) Water Reservoir or Well Spring B 6 (B) N m (1) P p (R) Щ m (sn) Rain Water Pit B . (V) D i (Y) C c (8) Щ щ (SИСН) Fr (G) K & (K) TT (T) **1**b (-) Heavy (Index) Contour Line Half Contour Дд(D) J A (E) Y y (U) M (Y) Contour Line Φ φ (P) E e (E) M M (M) ♠ (¹)

Ë ë (YO)

X X (ZH)

H H (N)

0 0 (0)

X x (KH)

U u (TS)

Эз(E)

IO 19 (YU or IU) (Ai to AY) R R

Coniferous

Deciduous

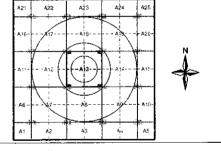
**Key to Numbers on Mapping** 



# Historical Mapping & Photography included:

Mapping Type	Scale	Date	Ps
Mickelenex	1:10,560	1873 - 1876	T :
London	1:10,560	1896	
Mickiesex	1:10,560	1896	J
Middlesex	1:10,560	1916	
London	1:10,560	1920	7
Middlesex	1:10,560	1935 - 1938	
Essex	1:10,500	1946	
Historical Aerial Photography	1:10,560	1950	14
Ordnance Survey Plan	1:10,560	1951	11
Ordnance Survey Plan	1:10,560	1958	1:
Ordnance Survey Plan	1:10,560	1968	13
Ordnance Survey Plan	1:10,000	1976	14
London	1:25,000	1985	18
Ordnance Survey Plan	1:18,000	1996	. 10
10K Raster Mapping	1:10,000	1999	17
10K Rester Mapping	1:10,000	2006	11

# Russian Map - Slice A



# **Order Details**

Order Number: 27013457\_1\_1 **Customer Ref:** National Grid Reference: 528130, 187200

Site Area (Ha):

0.01

Search Buffer (m):

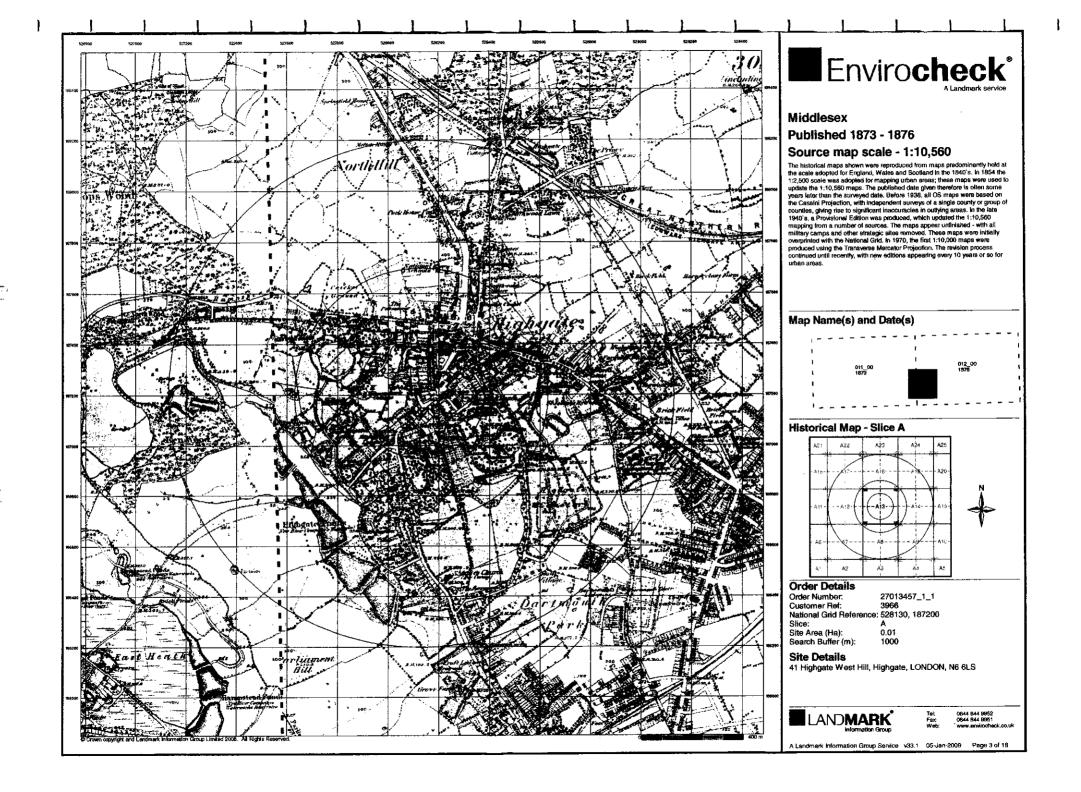
1000

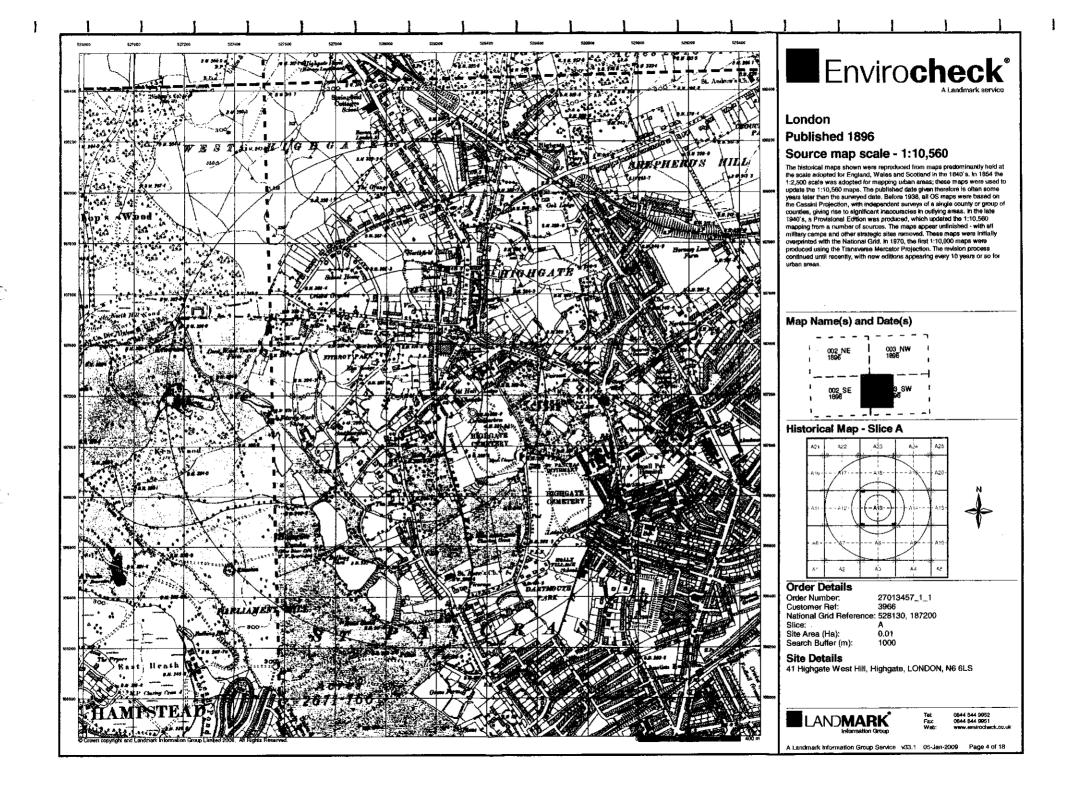
#### Site Details

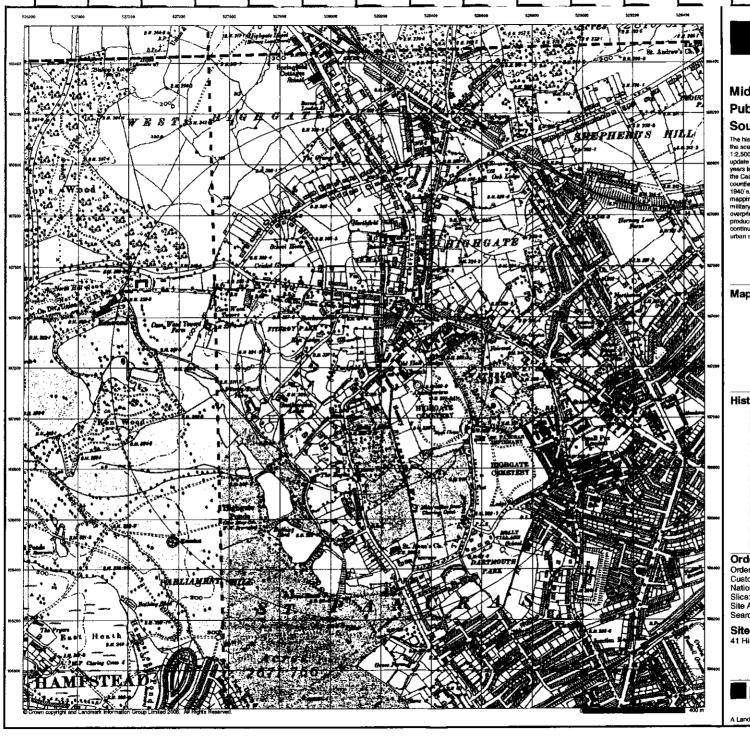
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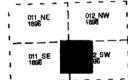


# Middlesex Published 1896

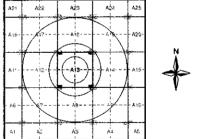
# Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 12,500 scale was adopted for mapping urban areas; hese maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Casshin Projection, with Independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outfying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued unlif recently, with new editions appearing every 10 years or so for urban areas.

#### Map Name(s) and Date(s)



#### Historical Map - Slice A



#### **Order Details**

Order Number: 27013457\_1\_1
Customer Ref: 3966
National Grid Reference: 528130, 187200
Slice: A
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