

Appendix E

Garages to rear of PARSIFAL HOUSE, 521 FINCHLEY ROAD, LONDON, NW3 7BT

Order Details

Date: 2020
Your ref: GGC20813
Our Ref: HMD-6934650
Client:

Site Details

Location: 525399 185491
Area: 0.11 ha
Authority: [London Borough of Camden](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.13

groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	<u>Historical industrial land uses</u>	0	0	3	14	-
15	1.2	<u>Historical tanks</u>	0	0	1	3	-
16	1.3	<u>Historical energy features</u>	0	0	8	10	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	<u>Historical garages</u>	0	0	7	18	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
19	2.1	<u>Historical industrial land uses</u>	0	0	4	21	-
20	2.2	<u>Historical tanks</u>	0	0	1	3	-
21	2.3	<u>Historical energy features</u>	0	0	18	31	-
23	2.4	Historical petrol stations	0	0	0	0	-
23	2.5	<u>Historical garages</u>	0	0	14	33	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
26	3.1	Active or recent landfill	0	0	0	0	-
26	3.2	Historical landfill (BGS records)	0	0	0	0	-
27	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
27	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
27	3.5	Historical waste sites	0	0	0	0	-
27	3.6	Licensed waste sites	0	0	0	0	-
27	3.7	<u>Waste exemptions</u>	0	0	0	4	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
29	4.1	<u>Recent industrial land uses</u>	0	1	7	-	-
30	4.2	<u>Current or recent petrol stations</u>	0	0	0	2	-
30	4.3	Electricity cables	0	0	0	0	-
31	4.4	Gas pipelines	0	0	0	0	-
31	4.5	Sites determined as Contaminated Land	0	0	0	0	-



31	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
31	4.7	Regulated explosive sites	0	0	0	0	-
31	4.8	Hazardous substance storage/usage	0	0	0	0	-
32	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
32	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
32	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	4	2	7	-
34	4.12	Radioactive Substance Authorisations	0	0	0	0	-
34	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	1	-
34	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
34	4.15	Pollutant release to public sewer	0	0	0	0	-
35	4.16	List 1 Dangerous Substances	0	0	0	0	-
35	4.17	List 2 Dangerous Substances	0	0	0	0	-
35	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
35	4.19	Pollution inventory substances	0	0	0	0	-
35	4.20	Pollution inventory waste transfers	0	0	0	0	-
36	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
37	5.1	Superficial aquifer	None (within 500m)				
38	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
40	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
41	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
41	5.5	Groundwater vulnerability- local information	None (within 0m)				
42	5.6	<u>Groundwater abstractions</u>	0	0	0	0	4
43	5.7	Surface water abstractions	0	0	0	0	0
44	5.8	Potable abstractions	0	0	0	0	0
44	5.9	Source Protection Zones	0	0	0	0	-
44	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
45	6.1	Water Network (OS MasterMap)	0	0	0	-	-



45	6.2	Surface water features	0	0	0	-	-
46	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
46	6.4	WFD Surface water bodies	0	0	0	-	-
46	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
47	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
47	7.2	Historical Flood Events	0	0	0	-	-
47	7.3	Flood Defences	0	0	0	-	-
47	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
48	7.5	Flood Storage Areas	0	0	0	-	-
49	7.6	Flood Zone 2	None (within 50m)				
49	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
50	8.1	<u>Surface water flooding</u>	1 in 100 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
52	9.1	<u>Groundwater flooding</u>	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
53	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	0	1
54	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
54	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
54	10.4	Special Protection Areas (SPA)	0	0	0	0	0
54	10.5	National Nature Reserves (NNR)	0	0	0	0	0
55	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	2
55	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	2
55	10.8	Biosphere Reserves	0	0	0	0	0
56	10.9	Forest Parks	0	0	0	0	0
56	10.10	Marine Conservation Zones	0	0	0	0	0
56	10.11	Green Belt	0	0	0	0	0
56	10.12	Proposed Ramsar sites	0	0	0	0	0



56	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
57	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
57	10.15	Nitrate Sensitive Areas	0	0	0	0	0
57	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
58	<u>10.17</u>	<u>SSSI Impact Risk Zones</u>	2	-	-	-	-
59	<u>10.18</u>	<u>SSSI Units</u>	0	0	0	0	1

Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
61	11.1	World Heritage Sites	0	0	0	-	-
62	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
62	11.3	National Parks	0	0	0	-	-
62	<u>11.4</u>	<u>Listed Buildings</u>	0	0	4	-	-
63	<u>11.5</u>	<u>Conservation Areas</u>	1	0	1	-	-
63	11.6	Scheduled Ancient Monuments	0	0	0	-	-
63	11.7	Registered Parks and Gardens	0	0	0	-	-

Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
64	<u>12.1</u>	<u>Agricultural Land Classification</u>	Urban (within 250m)				
65	12.2	Open Access Land	0	0	0	-	-
65	12.3	Tree Felling Licences	0	0	0	-	-
65	12.4	Environmental Stewardship Schemes	0	0	0	-	-
65	12.5	Countryside Stewardship Schemes	0	0	0	-	-

Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
66	13.1	Priority Habitat Inventory	0	0	0	-	-
66	13.2	Habitat Networks	0	0	0	-	-
66	13.3	Open Mosaic Habitat	0	0	0	-	-
66	13.4	Limestone Pavement Orders	0	0	0	-	-

Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
67	<u>14.1</u>	<u>10k Availability</u>	Identified (within 500m)				
68	<u>14.2</u>	<u>Artificial and made ground (10k)</u>	0	0	1	1	-
69	14.3	Superficial geology (10k)	0	0	0	0	-



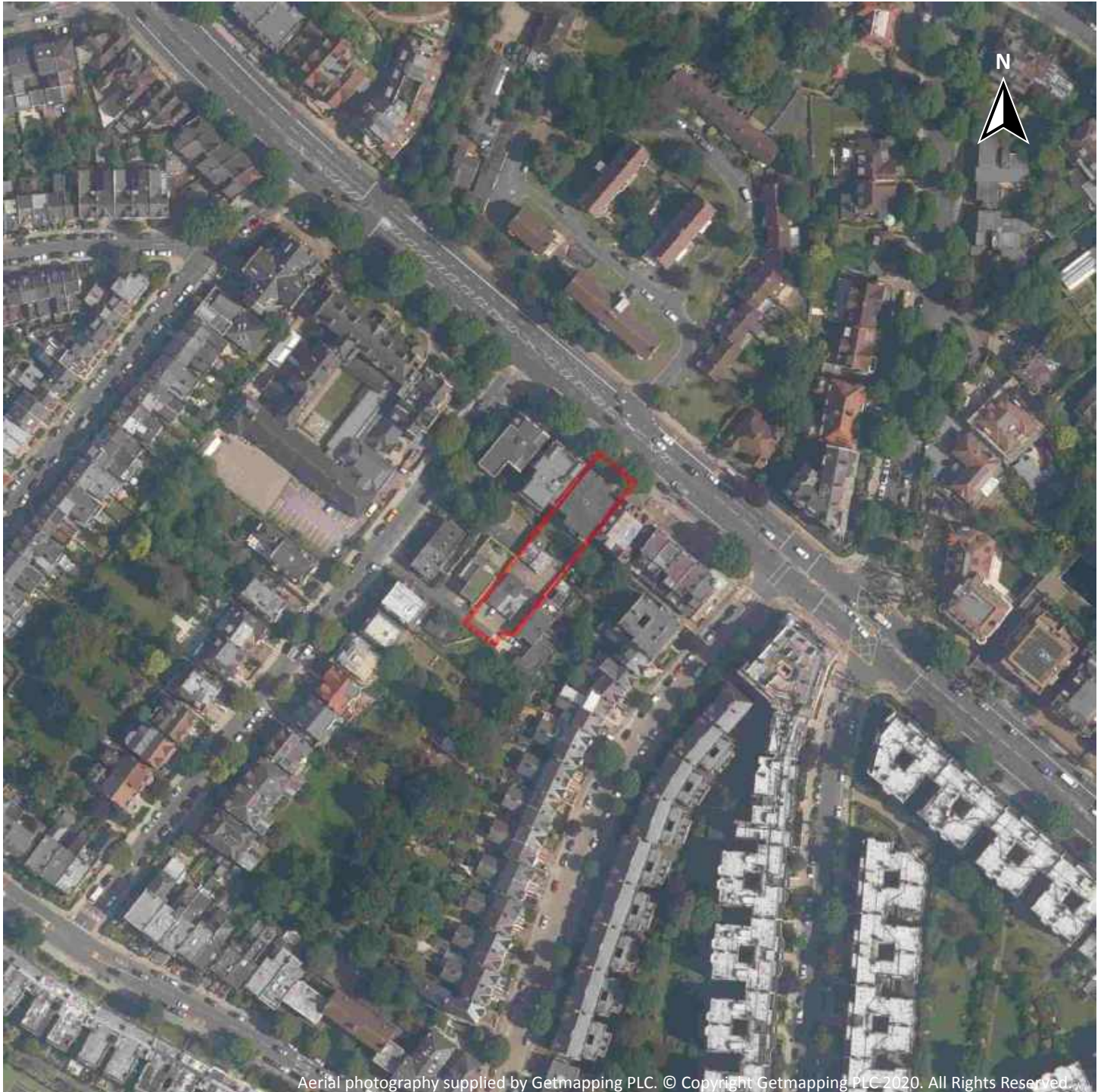
69	14.4	Landslip (10k)	0	0	0	0	-
70	14.5	<u>Bedrock geology (10k)</u>	1	0	1	3	-
71	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
72	15.1	<u>50k Availability</u>	Identified (within 500m)				
73	15.2	<u>Artificial and made ground (50k)</u>	0	0	1	1	-
74	15.3	Artificial ground permeability (50k)	0	0	-	-	-
75	15.4	Superficial geology (50k)	0	0	0	0	-
75	15.5	Superficial permeability (50k)	None (within 50m)				
75	15.6	Landslip (50k)	0	0	0	0	-
75	15.7	Landslip permeability (50k)	None (within 50m)				
76	15.8	<u>Bedrock geology (50k)</u>	1	0	1	1	-
77	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
77	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
78	16.1	<u>BGS Boreholes</u>	0	0	2	-	-
Page	Section	Natural ground subsidence					
79	17.1	<u>Shrink swell clays</u>	Moderate (within 50m)				
80	17.2	<u>Running sands</u>	Very low (within 50m)				
81	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
82	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
83	17.5	<u>Landslides</u>	Very low (within 50m)				
84	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
85	18.1	Natural cavities	0	0	0	0	-
86	18.2	BritPits	0	0	0	0	-
86	18.3	<u>Surface ground workings</u>	0	0	2	-	-
86	18.4	<u>Underground workings</u>	0	0	0	0	12
87	18.5	Historical Mineral Planning Areas	0	0	0	0	-



87	18.6	Non-coal mining	0	0	0	0	0
87	18.7	Mining cavities	0	0	0	0	0
88	18.8	JPB mining areas	None (within 0m)				
88	18.9	Coal mining	None (within 0m)				
88	18.10	Brine areas	None (within 0m)				
88	18.11	Gypsum areas	None (within 0m)				
88	18.12	Tin mining	None (within 0m)				
89	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
90	19.1	Radon	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
91	20.1	BGS Estimated Background Soil Chemistry	2	0	-	-	-
91	20.2	BGS Estimated Urban Soil Chemistry	4	0	-	-	-
92	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
93	21.1	Underground railways (London)	0	0	0	-	-
93	21.2	Underground railways (Non-London)	0	0	0	-	-
93	21.3	Railway tunnels	0	0	0	-	-
93	21.4	Historical railway and tunnel features	0	0	0	-	-
93	21.5	Royal Mail tunnels	0	0	0	-	-
94	21.6	Historical railways	0	0	0	-	-
94	21.7	Railways	0	0	0	-	-
94	21.8	Crossrail 1	0	0	0	0	-
94	21.9	Crossrail 2	0	0	0	0	-
94	21.10	HS2	0	0	0	0	-



Recent aerial photograph

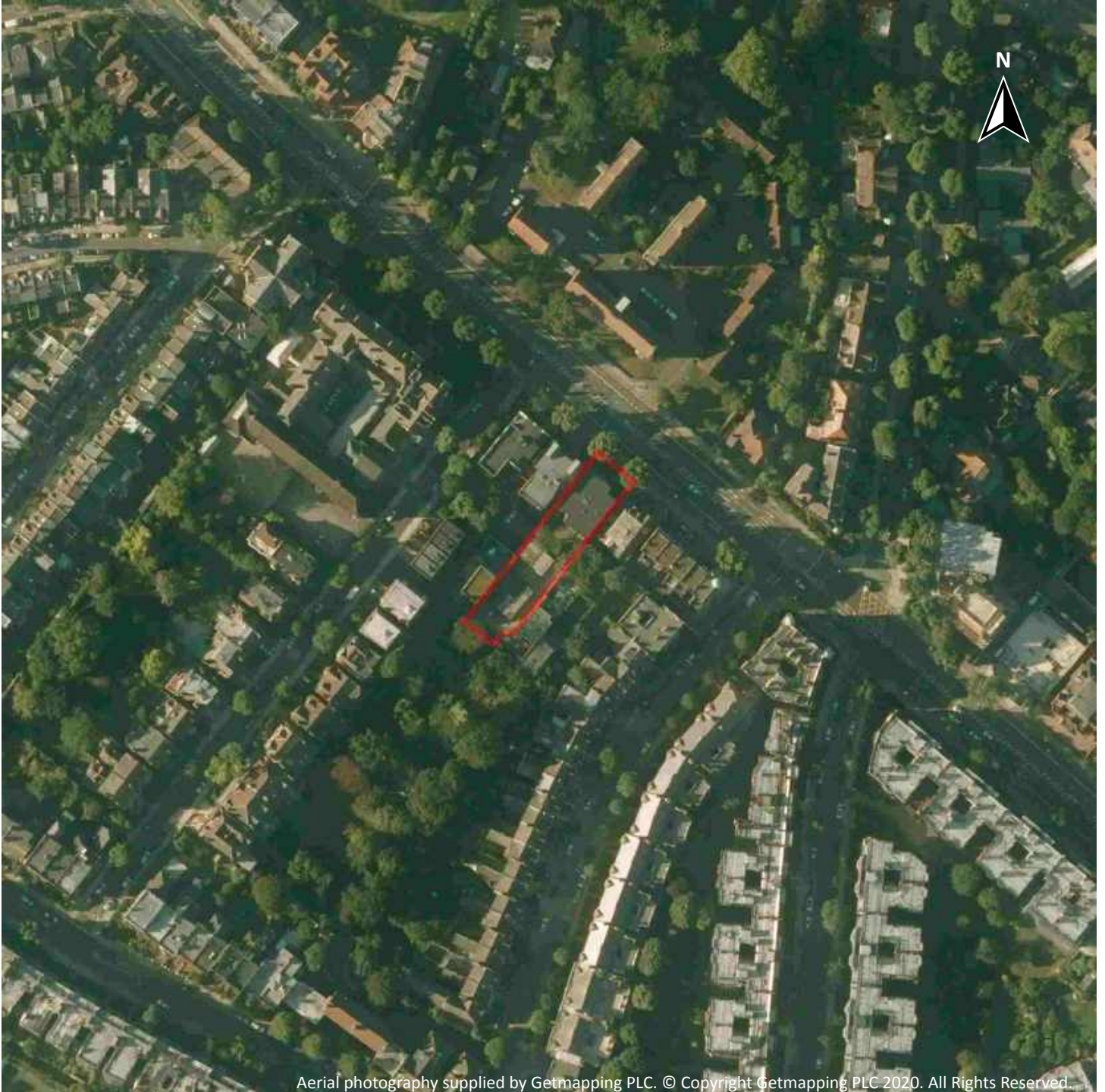


Capture Date: 29/06/2019

Site Area: 0.11ha



Recent site history - 2016 aerial photograph



Capture Date: 12/08/2016

Site Area: 0.11ha



Recent site history - 2014 aerial photograph

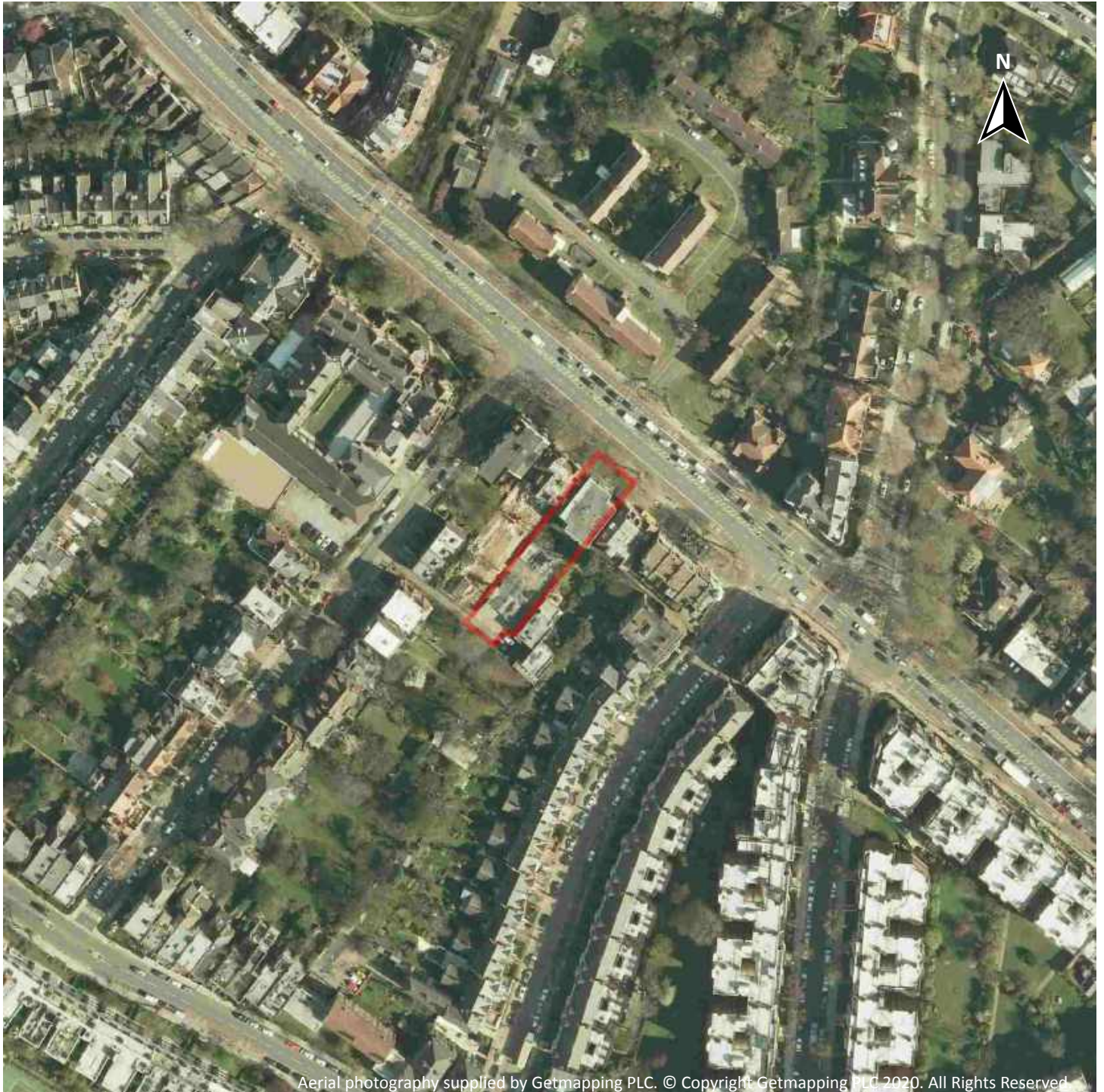


Capture Date: 04/05/2014

Site Area: 0.11ha



Recent site history - 2008 aerial photograph

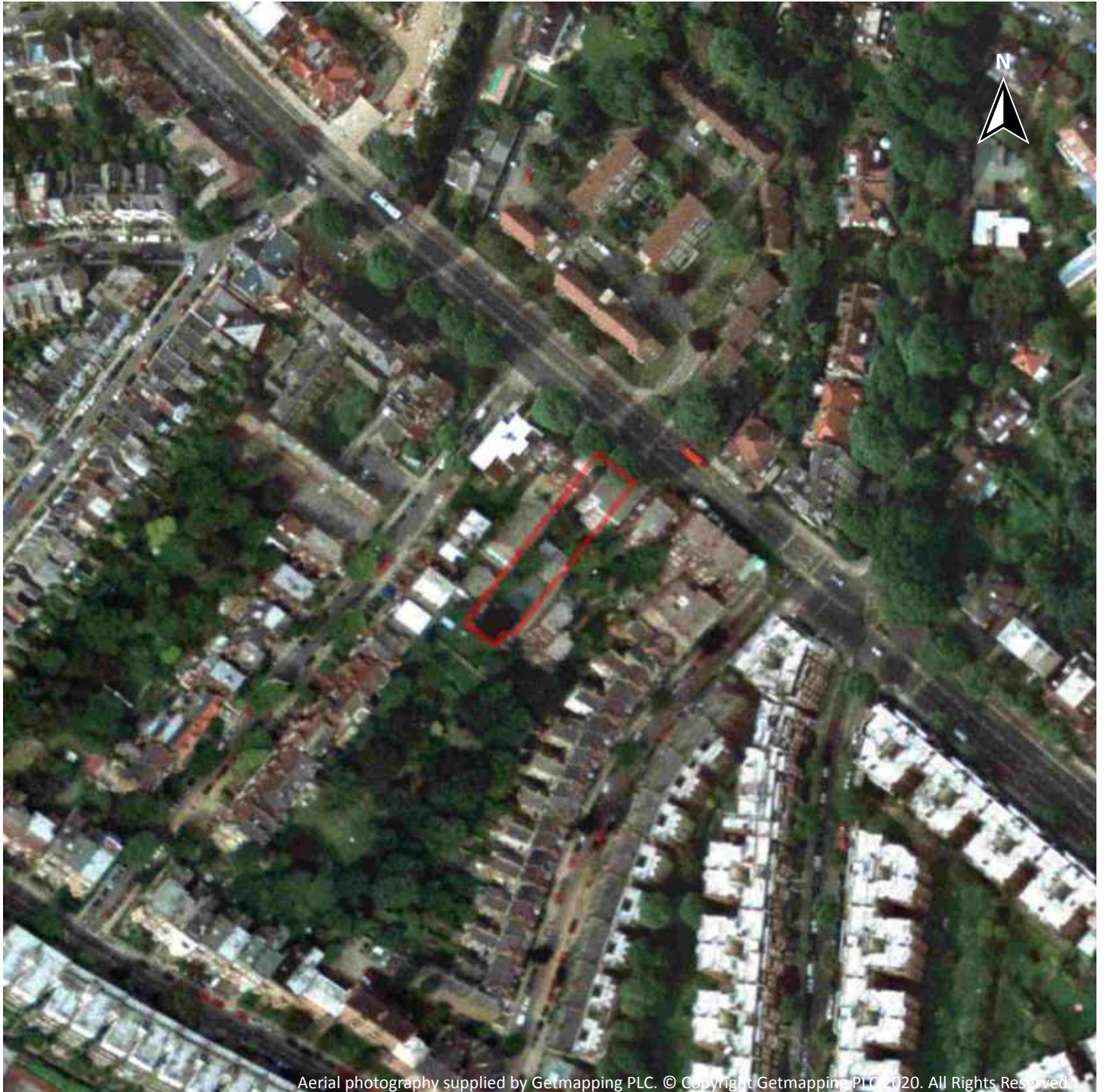


Capture Date: 15/04/2008

Site Area: 0.11ha



Recent site history - 1999 aerial photograph



Capture Date: 04/09/1999

Site Area: 0.11ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

1.1 Historical industrial land uses

Records within 500m **17**

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
B	138m S	Gravel Pit	1873	2138928

ID	Location	Land use	Dates present	Group ID
B	148m S	Gravel Pits	1873	2128943
D	210m W	Police Station	1974 - 1996	2202608
E	261m S	Gravel Pit	1873	2138929
E	267m S	Fire Station	1965 - 1996	2194000
5	292m N	Gravel Pit	1873	2138930
H	312m NW	Cemetery	1911	2191245
H	312m NW	Cemetery	1920 - 1938	2225731
7	316m NW	Cemetery	1949	2218974
H	317m NW	Cemetery	1938	2278062
I	319m N	Unspecified Ground Workings	1938	2133633
9	378m W	Cemetery	1894	2277190
H	385m W	Cemetery	1949 - 1993	2220744
L	396m N	Unspecified Heap	1911	2295249
11	420m NW	Brick Field	1873	2146676
L	425m N	Unspecified Heap	1920 - 1938	2260876
L	433m N	Unspecified Ground Workings	1938	2133632

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

4

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
2	103m NW	Unspecified Tank	1971	364419
J	396m S	Unspecified Tank	1871	364420

ID	Location	Land use	Dates present	Group ID
J	447m S	Unspecified Tank	1871	364424
13	459m S	Unspecified Tank	1871	364422

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

18

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	94m NW	Electricity Substation	1994	292404
A	95m N	Electricity Substation	1991	287143
A	97m N	Electricity Substation	1979	286519
1	101m SW	Electricity Substation	1973 - 1994	288781
3	202m SE	Electricity Substation	1971 - 1995	283142
D	232m W	Electricity Substation	1991	280617
D	236m W	Electricity Substation	1973 - 1994	263794
4	250m SW	Electricity Substation	1953 - 1994	260290
G	312m SE	Electricity Substation	1971 - 1995	268804
G	312m SE	Electricity Substation	1991	261045
I	342m N	Electricity Substation	1971 - 1994	260200
J	368m S	Electricity Substation	1973	244860
K	371m NW	Electricity Substation	1971 - 1991	276372
K	371m NW	Electricity Substation	1994	263544
8	375m SW	Electricity Substation	1973 - 1994	265325
K	376m NW	Electricity Substation	1971 - 1994	269356



ID	Location	Land use	Dates present	Group ID
10	414m SW	Electricity Substation	1973	244859
12	429m W	Electricity Substation	1953 - 1991	287974

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	25
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
C	195m W	Garage	1953	84580
C	195m W	Garage	1953 - 1979	83100
C	196m W	Garage	1994	77105
D	196m W	Garages	1953	85021
C	206m W	Garage	1991	78602
E	233m S	Garage	1953	77736
E	234m S	Garage	1953	80350
E	279m S	Post Office Garage	1953	83857
E	279m S	Post Office Garage	1953	79323

ID	Location	Land use	Dates present	Group ID
E	281m S	Garage	1991	74627
E	281m S	Garage	1953	85294
E	281m S	Garage	1953 - 1973	83408
E	282m S	Garage	1992 - 1994	83263
F	291m W	Garage	1994	75365
F	291m W	Garage	1953 - 1979	82249
F	296m NW	Garage	1953	83922
F	301m W	Garage	1991	75858
6	312m W	Garages	1953	85295
E	326m S	Garages	1953	82167
E	326m S	Garages	1953	79385
J	356m S	Garages	1953	80413
J	357m S	Garages	1953	76558
J	362m S	Garages	1953	80516
J	429m S	Garages	1953	84040
J	431m S	Garages	1953	75929

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

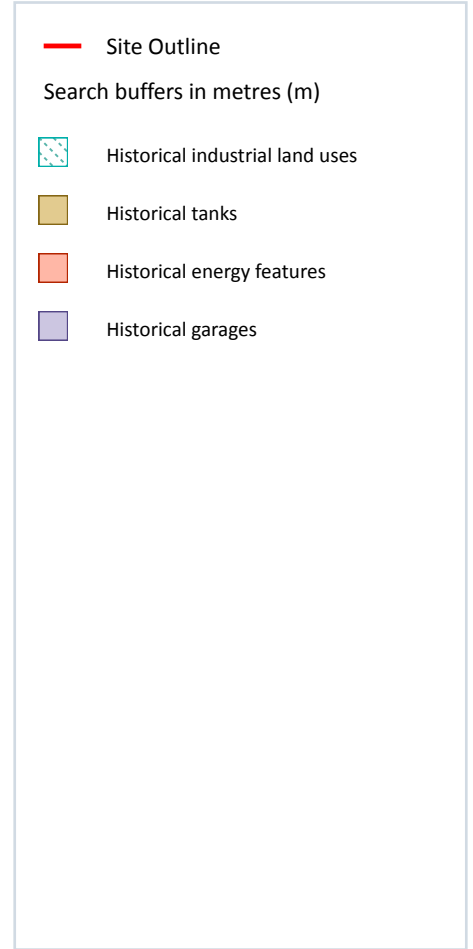
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Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m

25

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
C	138m S	Gravel Pit	1873	2138928
C	148m S	Gravel Pits	1873	2128943
E	210m W	Police Station	1974	2202608

ID	Location	Land Use	Date	Group ID
E	210m W	Police Station	1996	2202608
G	261m S	Gravel Pit	1873	2138929
G	267m S	Fire Station	1965	2194000
G	267m S	Fire Station	1974	2194000
G	267m S	Fire Station	1996	2194000
2	292m N	Gravel Pit	1873	2138930
L	312m NW	Cemetery	1911	2191245
L	312m NW	Cemetery	1920	2225731
3	316m NW	Cemetery	1949	2218974
L	317m NW	Cemetery	1938	2278062
L	318m NW	Cemetery	1938	2225731
M	319m N	Unspecified Ground Workings	1938	2133633
4	378m W	Cemetery	1894	2277190
L	385m W	Cemetery	1976	2220744
L	385m W	Cemetery	1966	2220744
L	385m W	Cemetery	1993	2220744
L	385m W	Cemetery	1949	2220744
Q	396m N	Unspecified Heap	1911	2295249
6	420m NW	Brick Field	1873	2146676
Q	425m N	Unspecified Heap	1920	2260876
Q	433m N	Unspecified Ground Workings	1938	2133632
Q	438m N	Unspecified Heap	1938	2260876

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

4

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.



Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
1	103m NW	Unspecified Tank	1971	364419
N	396m S	Unspecified Tank	1871	364420
N	447m S	Unspecified Tank	1871	364424
7	459m S	Unspecified Tank	1871	364422

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

49

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
A	94m NW	Electricity Substation	1994	292404
A	95m N	Electricity Substation	1991	287143
A	97m N	Electricity Substation	1979	286519
B	101m SW	Electricity Substation	1991	288781
B	102m SW	Electricity Substation	1973	288781
B	104m SW	Electricity Substation	1994	288781
B	104m SW	Electricity Substation	1992	288781
F	202m SE	Electricity Substation	1971	283142
F	202m SE	Electricity Substation	1979	283142
F	202m SE	Electricity Substation	1991	283142
F	202m SE	Electricity Substation	1995	283142
E	232m W	Electricity Substation	1991	280617
E	236m W	Electricity Substation	1973	263794
E	236m W	Electricity Substation	1994	263794
E	236m W	Electricity Substation	1992	263794



ID	Location	Land Use	Date	Group ID
H	250m SW	Electricity Substation	1991	260290
H	250m SW	Electricity Substation	1953	260290
H	250m SW	Electricity Substation	1953	260290
H	250m SW	Electricity Substation	1953	260290
H	250m SW	Electricity Substation	1973	260290
H	251m SW	Electricity Substation	1994	260290
H	251m SW	Electricity Substation	1992	260290
J	312m SE	Electricity Substation	1995	268804
J	312m SE	Electricity Substation	1971	268804
J	312m SE	Electricity Substation	1979	268804
J	312m SE	Electricity Substation	1991	261045
M	342m N	Electricity Substation	1991	260200
M	342m N	Electricity Substation	1971	260200
M	342m N	Electricity Substation	1979	260200
M	343m N	Electricity Substation	1994	260200
N	368m S	Electricity Substation	1973	244860
O	371m NW	Electricity Substation	1991	276372
O	371m NW	Electricity Substation	1994	263544
O	372m NW	Electricity Substation	1971	276372
O	372m NW	Electricity Substation	1979	276372
P	375m SW	Electricity Substation	1973	265325
P	376m SW	Electricity Substation	1994	265325
P	376m SW	Electricity Substation	1992	265325
P	376m SW	Electricity Substation	1991	265325
O	376m NW	Electricity Substation	1991	269356
O	376m NW	Electricity Substation	1994	269356
O	377m NW	Electricity Substation	1971	269356
O	377m NW	Electricity Substation	1979	269356



ID	Location	Land Use	Date	Group ID
5	414m SW	Electricity Substation	1973	244859
R	429m W	Electricity Substation	1953	287974
R	429m W	Electricity Substation	1991	287974
R	429m W	Electricity Substation	1991	287974
R	429m W	Electricity Substation	1953	287974
R	429m W	Electricity Substation	1974	287974

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0
----------------------------	----------

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	47
----------------------------	-----------

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
D	195m W	Garage	1953	84580
D	195m W	Garage	1953	84580
D	195m W	Garage	1953	83100
D	195m W	Garage	1971	83100
D	195m W	Garage	1979	83100
D	195m W	Garage	1962	83100
D	196m W	Garage	1994	77105



ID	Location	Land Use	Date	Group ID
E	196m W	Garages	1953	85021
E	196m W	Garages	1953	85021
E	196m W	Garages	1953	85021
D	206m W	Garage	1991	78602
G	233m S	Garage	1953	77736
G	234m S	Garage	1953	80350
G	234m S	Garage	1953	80350
G	279m S	Post Office Garage	1953	83857
G	279m S	Post Office Garage	1953	83857
G	279m S	Post Office Garage	1953	79323
G	281m S	Garage	1991	74627
G	281m S	Garage	1953	85294
G	281m S	Garage	1953	85294
G	281m S	Garage	1953	83408
G	281m S	Garage	1973	83408
G	282m S	Garage	1994	83263
G	282m S	Garage	1992	83263
I	291m W	Garage	1994	75365
I	291m W	Garage	1953	82249
I	291m W	Garage	1971	82249
I	291m W	Garage	1979	82249
I	291m W	Garage	1962	82249
I	296m NW	Garage	1953	83922
I	296m NW	Garage	1953	83922
I	301m W	Garage	1991	75858
K	312m W	Garages	1953	85295
K	312m W	Garages	1953	85295
K	312m W	Garages	1953	85295



ID	Location	Land Use	Date	Group ID
G	326m S	Garages	1953	82167
G	326m S	Garages	1953	82167
G	326m S	Garages	1953	79385
N	356m S	Garages	1953	80413
N	356m S	Garages	1953	80413
N	357m S	Garages	1953	76558
N	362m S	Garages	1953	80516
N	362m S	Garages	1953	80516
N	363m S	Garages	1953	80516
N	429m S	Garages	1953	84040
N	429m S	Garages	1953	84040
N	431m S	Garages	1953	75929

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m 0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m 0

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m 0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m 0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m 4

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 26**

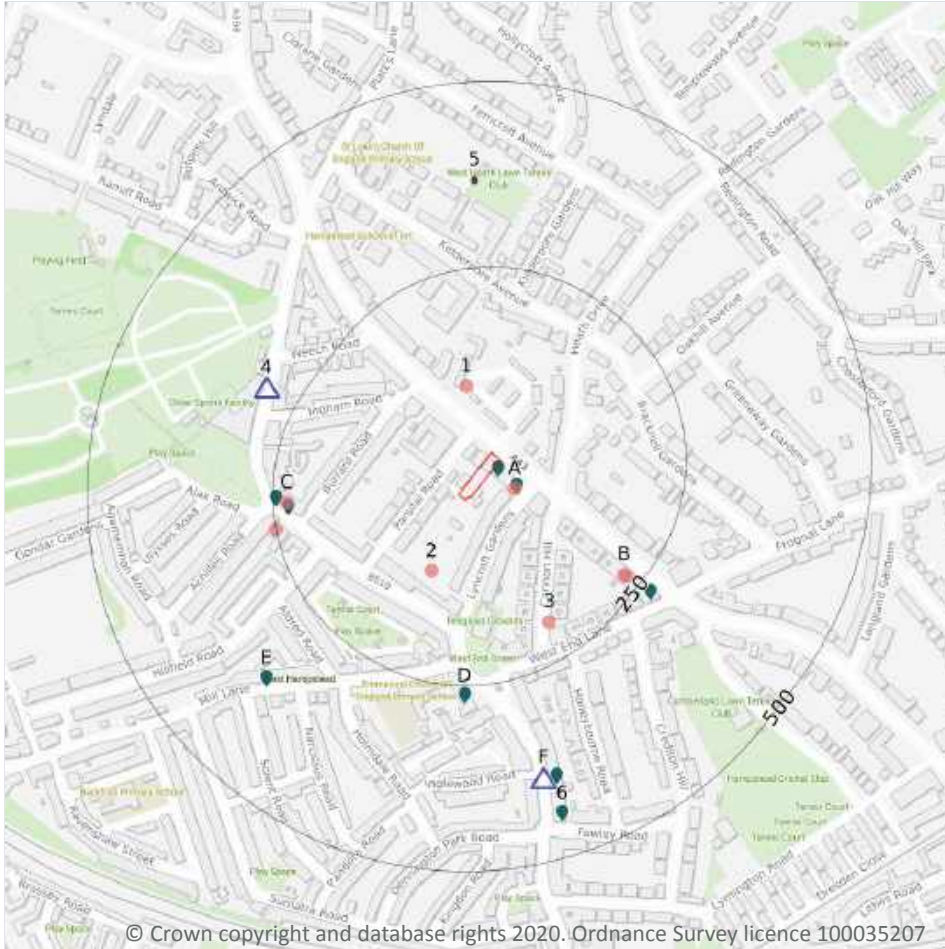
ID	Location	Site	Reference	Category	Sub-Category	Description
1	270m SE	292, WEST END LANE, LONDON, NW6 1LN	WEX160733	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal

ID	Location	Site	Reference	Category	Sub-Category	Description
A	318m SE	463, FINCHLEY ROAD, LONDON, NW3 6HN	WEX121977	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	318m SE	463, FINCHLEY ROAD, LONDON, NW3 6HN	WEX121977	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	321m SE	463 Finchley Road LONDON NW3 6HN	EPR/WH0777 UE/A001	Treating waste exemption	Non- Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- ◆ Licensed pollutant release (Part A(2)/B)
- ◆ Licensed Discharges to controlled waters

4.1 Recent industrial land uses

Records within 250m

8

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 29**

ID	Location	Company	Address	Activity	Category
A	39m SE	Curtains & Blinds	509, Finchley Road, Hampstead, London, Greater London, NW3 7BB	Curtains and Blinds	Consumer Products
1	96m N	Electricity Sub Station	Greater London, NW3	Electrical Features	Infrastructure and Facilities
2	106m SW	Electricity Sub Station	Greater London, NW6	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
3	198m SE	Electricity Sub Station	Greater London, NW6	Electrical Features	Infrastructure and Facilities
B	226m SE	Stone of London	485, Finchley Road, London, Greater London, NW3 6HS	Stone Quarrying and Preparation	Extractive Industries
B	231m SE	Chessams Upholsterers	483a, Finchley Road, London, Greater London, NW3 6HS	Furniture	Consumer Products
C	232m W	Cromwell Security & Fire Services Ltd	64, Fortune Green Road, London, Greater London, NW6 1DT	Electronic Equipment	Industrial Products
C	250m W	Electricity Sub Station	Greater London, NW6	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	2
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Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 29**

ID	Location	Company	Address	LPG	Status
4	296m NW	TEXACO	63-65, Fortune Green Road, Fortune Green, London, Inner London, NW6 1DR	Not Applicable	Obsolete
F	388m S	OBSOLETE	West End Lane, London, Inner London, NW6 1XF	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.



4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0
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Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0
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Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0
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Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

13

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 29**

ID	Location	Address	Details	
A	4m SE	The London Dry Cleaning Company, 519A Finchley Road, NW3 7BB	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
A	4m SE	The London Dry Cleaning Company, 519A Finchley Road, NW3 7BB	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
A	39m SE	Cottontail Cleaners, 509 Finchley Road, Hamstead, NW3 7BB	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
A	39m SE	Cottontail Cleaners, 509 Finchley Road, NW3 7BB	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: Enforcement Notified Date of enforcement: 19/01/2009 Comment: Non - payment of the annual subsistence fee.

ID	Location	Address	Details	
C	230m W	Texaco 63 Fortune Green, London, NW6 1DR	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
C	245m W	Hamstead Dry Cleaners, 68 Fortune Green Road, NW6 1DS	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
D	263m S	Sparkle Dry Cleaning , 329 West End Lane, NW6 1RS	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
D	263m S	Sparkle Dry Cleaning, 329 West End Lane, NW6 1RS	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
B	268m SE	J D Dry Cleaners, 469 Finchley Road, NW3 6HP	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
E	357m SW	Cotton Club Dry Cleaners, 57 Mill Lane, NW6 1NB	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
E	357m SW	Cotton Club Dry Cleaners, 57 Mill Lane, NW6 1NB	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
F	391m S	Shamrock Express Cleaners, 210 West End Lane, NW6 1UU	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
6	441m S	Shamrock, 210 West End Lane, NW6 1UU	Process: Dry Cleaning Status: Revoked Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

1

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 29**

ID	Location	Address	Details	
5	368m N	Kidder pore	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: TEMP.0165 Permit Version: 1 Receiving Water: RIVER THAMES	Status: REVOKED - UNSPECIFIED Issue date: 15/09/1989 Effective Date: 15/09/1989 Revocation Date: 05/10/2000

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.16 List 1 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

0

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



4.21 Pollution inventory radioactive waste

Records within 500m

0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer

5.1 Superficial aquifer

Records within 500m

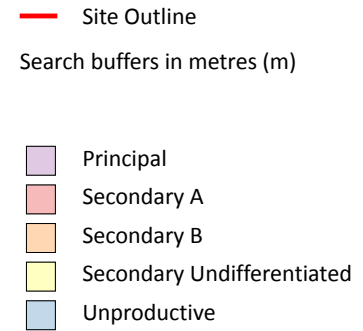
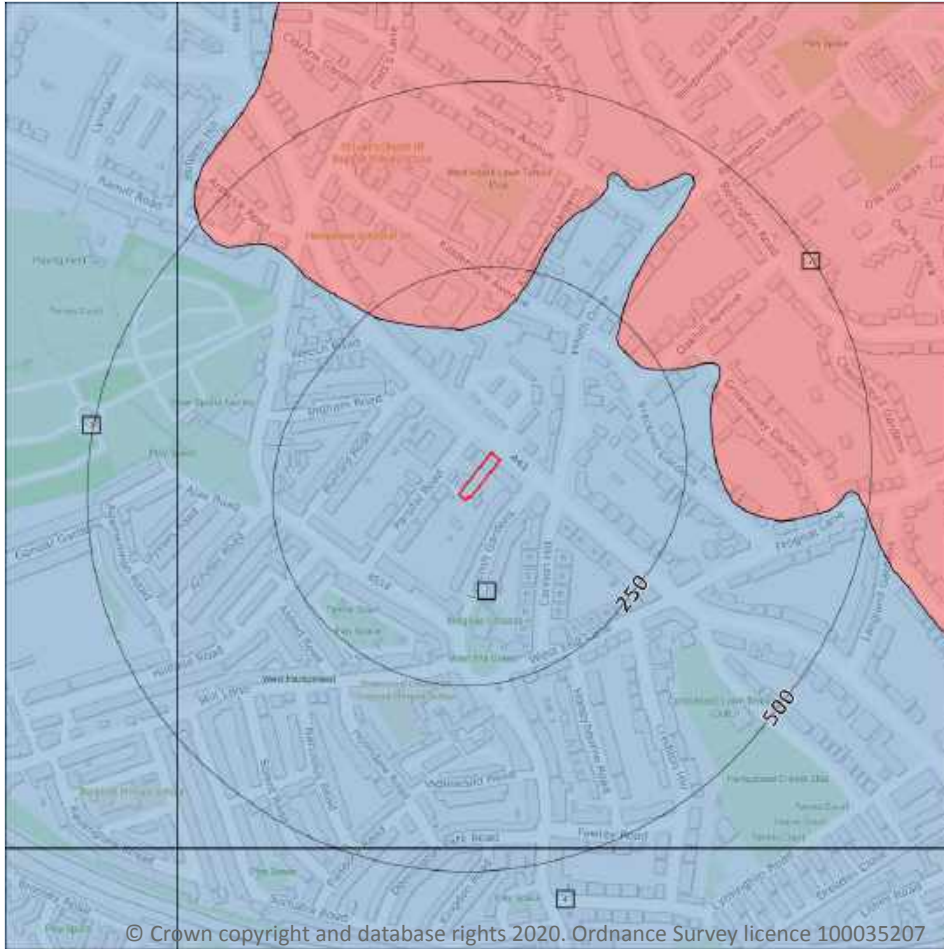
0

Aquifer status of groundwater held within superficial geology.

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



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5.2 Bedrock aquifer

Records within 500m

4

Aquifer status of groundwater held within bedrock geology.

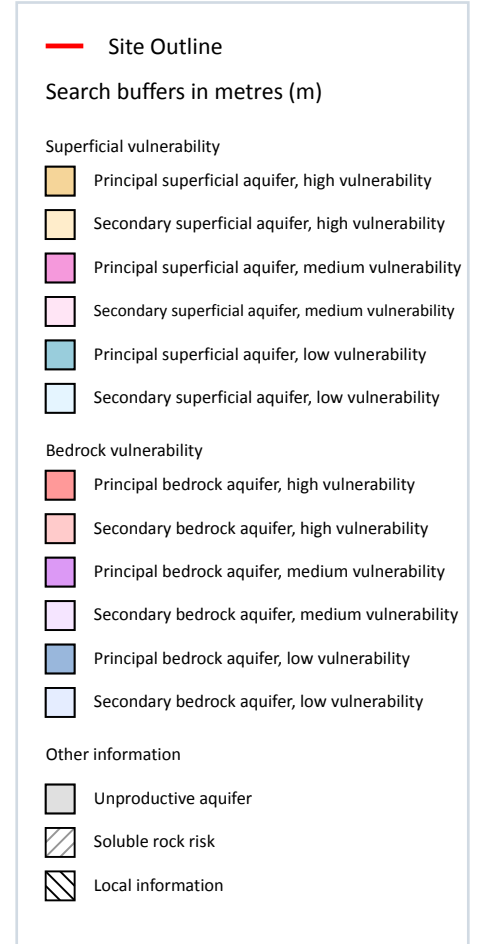
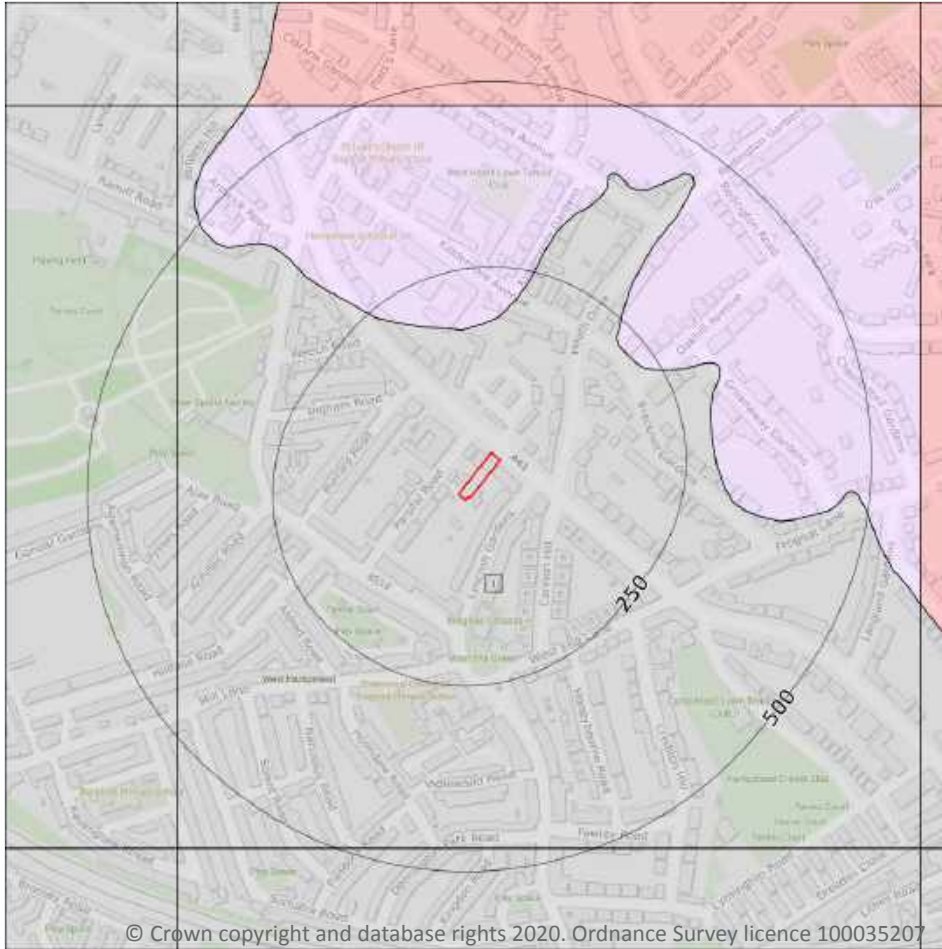
Features are displayed on the Bedrock aquifer map on **page 38**

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	170m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	379m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	469m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

1

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 40**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site

0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

4

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 42**

ID	Location	Details	
-	1817m SE	Status: Active Licence No: TH/039/0039/087 Details: Lake & Pond Throughflow Direct Source: THAMES GROUNDWATER Point: SWISS COTTAGE OPEN SPACE- BOREHOLE Data Type: Point Name: LONDON BOROUGH OF CAMDEN Easting: 526750 Northing: 184261	Annual Volume (m ³): 10,512 Max Daily Volume (m ³): 28.80 Original Application No: - Original Start Date: 05/12/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 05/12/2013 Version End Date: -
-	1817m SE	Status: Active Licence No: TH/039/0039/087 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: SWISS COTTAGE OPEN SPACE- BOREHOLE Data Type: Point Name: LONDON BOROUGH OF CAMDEN Easting: 526750 Northing: 184261	Annual Volume (m ³): 10,512 Max Daily Volume (m ³): 28.80 Original Application No: - Original Start Date: 05/12/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 05/12/2013 Version End Date: -
-	1817m SE	Status: Active Licence No: TH/039/0039/087 Details: General Washing/Process Washing Direct Source: THAMES GROUNDWATER Point: SWISS COTTAGE OPEN SPACE- BOREHOLE Data Type: Point Name: LONDON BOROUGH OF CAMDEN Easting: 526750 Northing: 184261	Annual Volume (m ³): 10,512 Max Daily Volume (m ³): 28.80 Original Application No: - Original Start Date: 05/12/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 05/12/2013 Version End Date: -
-	1842m SE	Status: Historical Licence No: 28/39/39/0219 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: SWISS COTTAGE OPEN SPACE- BOREHOLE Data Type: Point Name: LONDON BOROUGH OF CAMDEN Easting: 526800 Northing: 184280	Annual Volume (m ³): 10512 Max Daily Volume (m ³): 28.8 Original Application No: - Original Start Date: 12/08/2005 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m

0

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.



5.8 Potable abstractions

Records within 2000m

0

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1
------------------------	----------

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 45**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	Coastal Catchment	Not part of a river WB catchment	128	Land area part of London Management Catchment draining to the Tidal Thames	London

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	0
---------------------------	----------

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	0
------------------------	----------

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

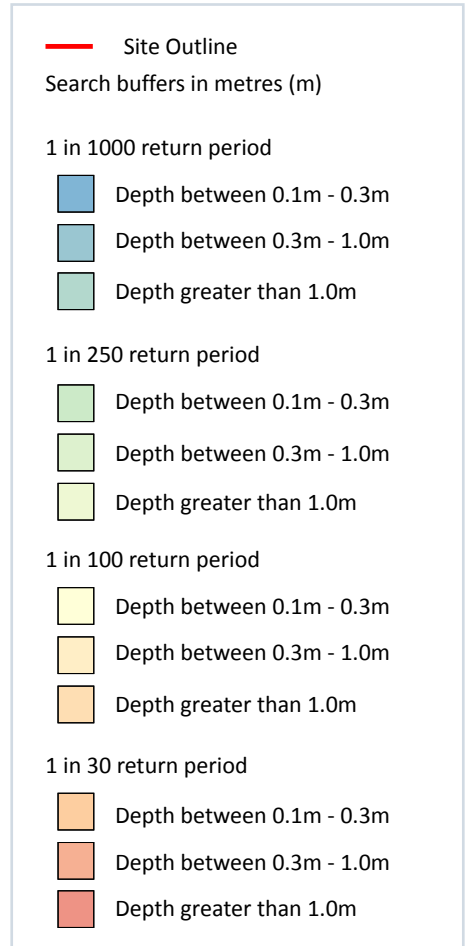
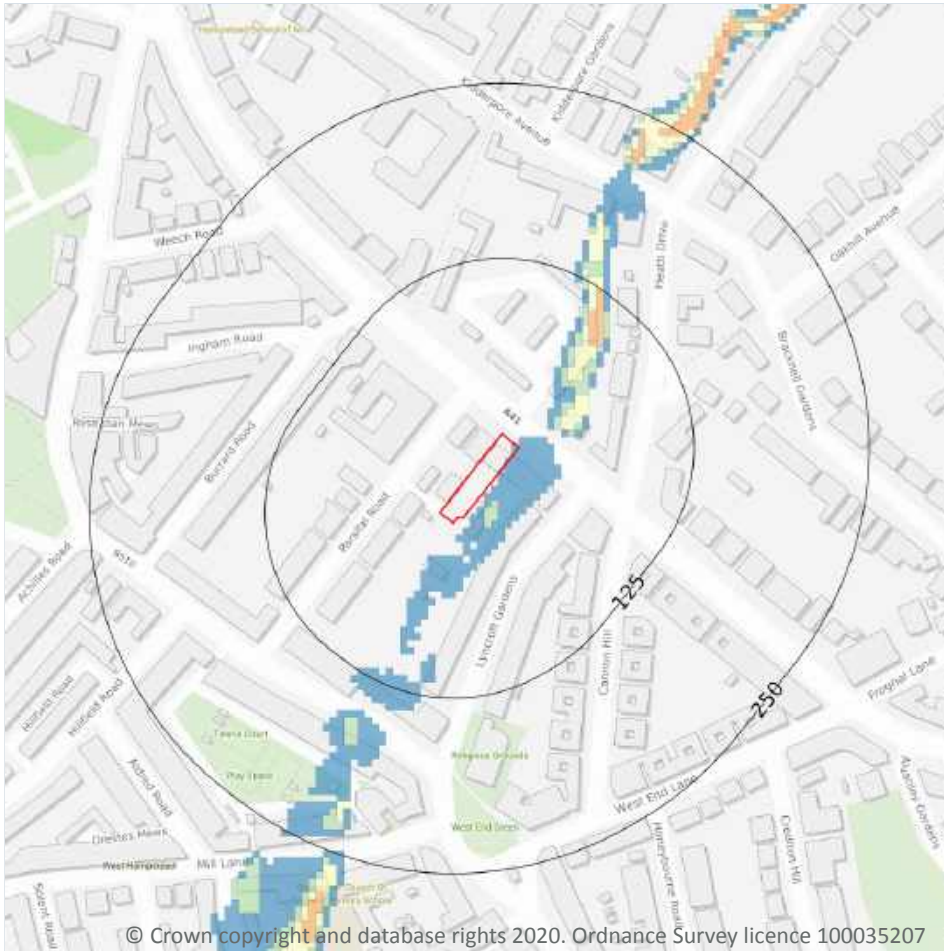
0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 1000 year, 0.1m - 0.3m

Highest risk within 50m

1 in 100 year, 0.1m - 0.3m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 50**

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.1m and 0.3m
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 52**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Local Nature Reserves (LNR)
- ▨ Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

1

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 53**

ID	Location	Name	Data source
-	1947m NE	Hampstead Heath Woods	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m

0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m

0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.6 Local Nature Reserves (LNR)

Records within 2000m

2

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on **page 53**

ID	Location	Name	Data source
A	888m W	Westbere Copse	Natural England
A	907m W	Westbere Copse	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m

2

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 53**

ID	Location	Name	Woodland Type
1	1356m NE	BISHOPS WOOD	Ancient & Semi-Natural Woodland
-	1968m NE	KEN WOOD	Ancient & Semi-Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.



10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

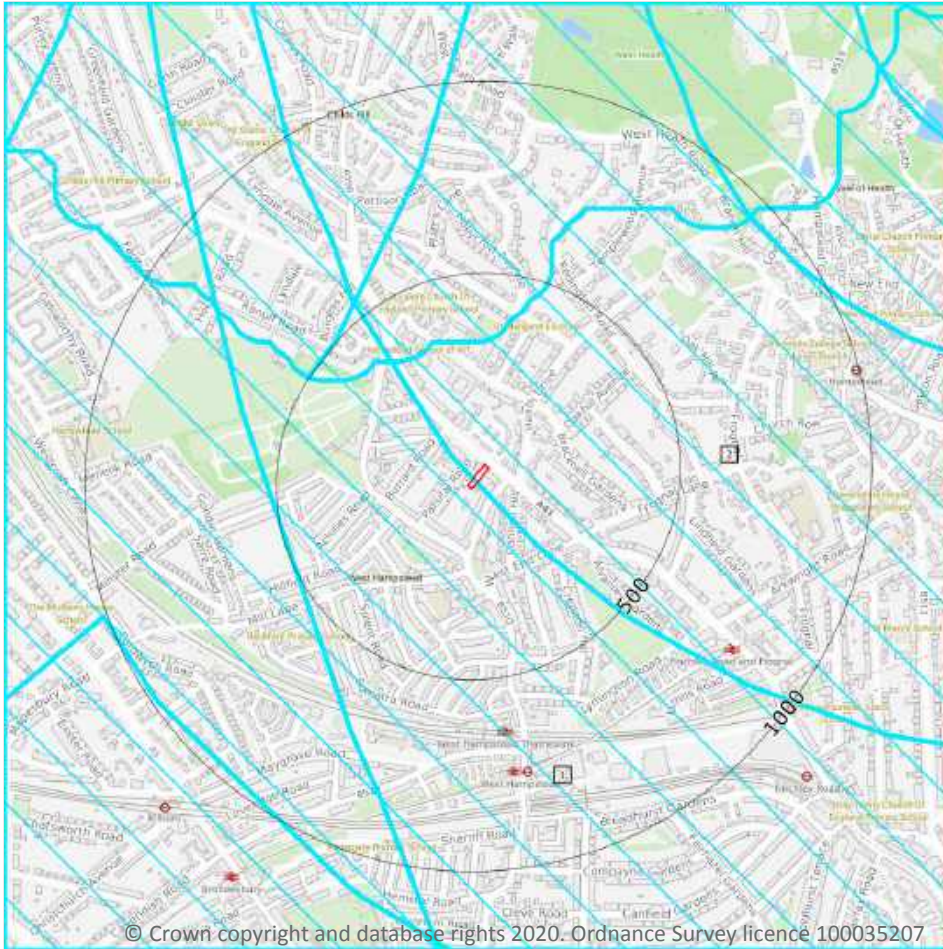
Records within 2000m

0

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

2

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 58**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t.</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p>
2	On site	<p>Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.</p> <p>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 200m² & manure stores > 250t).</p> <p>Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	1
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 58**

ID: -

Location: 1947m NE

SSSI name: Hampstead Heath Woods

Unit name: 2

Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland

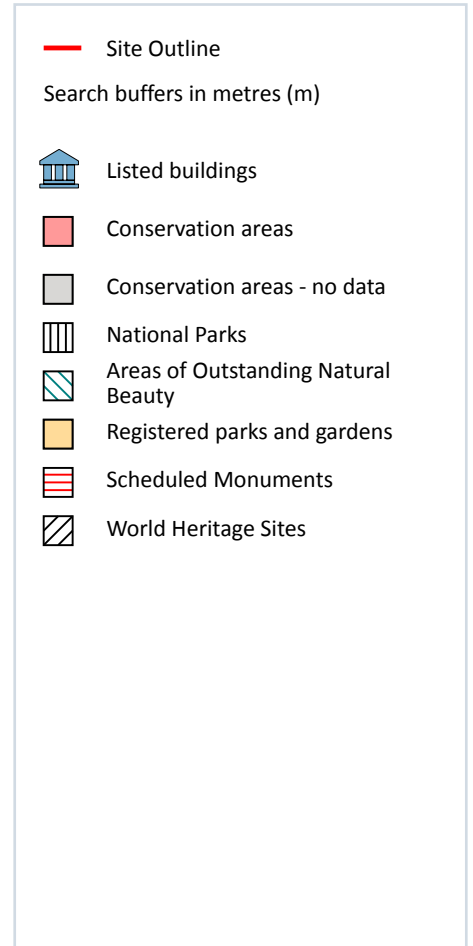
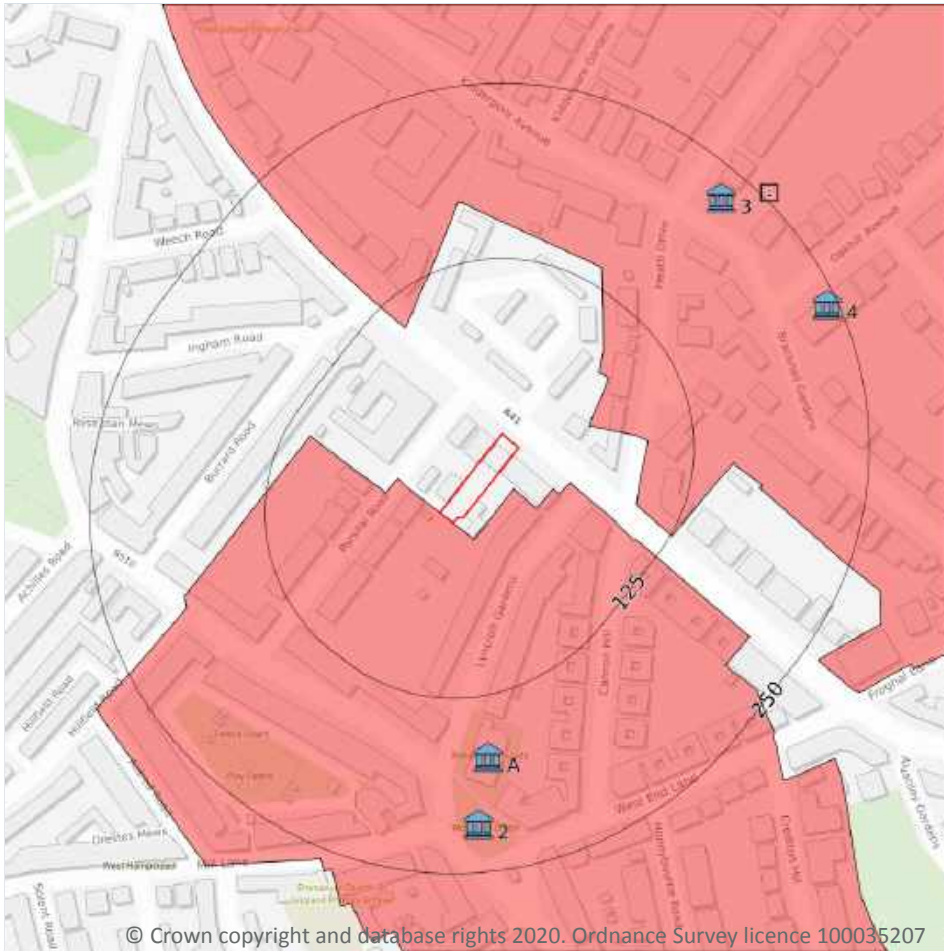
Condition: Favourable

Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	18/05/2018

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations



11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

4

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 61**

ID	Location	Name	Grade	Reference Number	Listed date
A	169m S	Emmanuel Church, Camden, London, NW6	II	1379387	11/01/1999
2	216m S	Drinking Fountain On West End Green At The Junction With Mill Lane And West End Lane, Camden, London, NW6	II	1390501	20/01/2003
3	229m NE	33, Heath Drive, Camden, London, NW3	II	1378824	11/01/1999
4	243m NE	25 And 27, Oakhill Avenue, Camden, London, NW3	II	1322079	11/01/1999

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.



11.5 Conservation Areas

Records within 250m

2

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

Features are displayed on the Visual and cultural designations map on **page 61**

ID	Location	Name	District	Date of designation
A	On site	West End Green	Camden	17/03/1993
1	53m E	Redington Froggall	Camden	01/06/1985

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

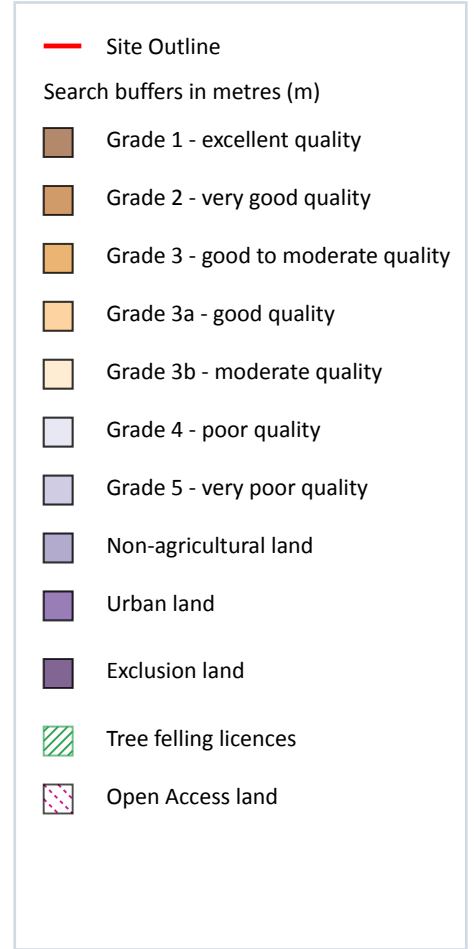
Records within 250m

0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

12 Agricultural designations



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12.1 Agricultural Land Classification

Records within 250m

1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 64**

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m	0
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Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0
---------------------	---

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0
---------------------	---

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

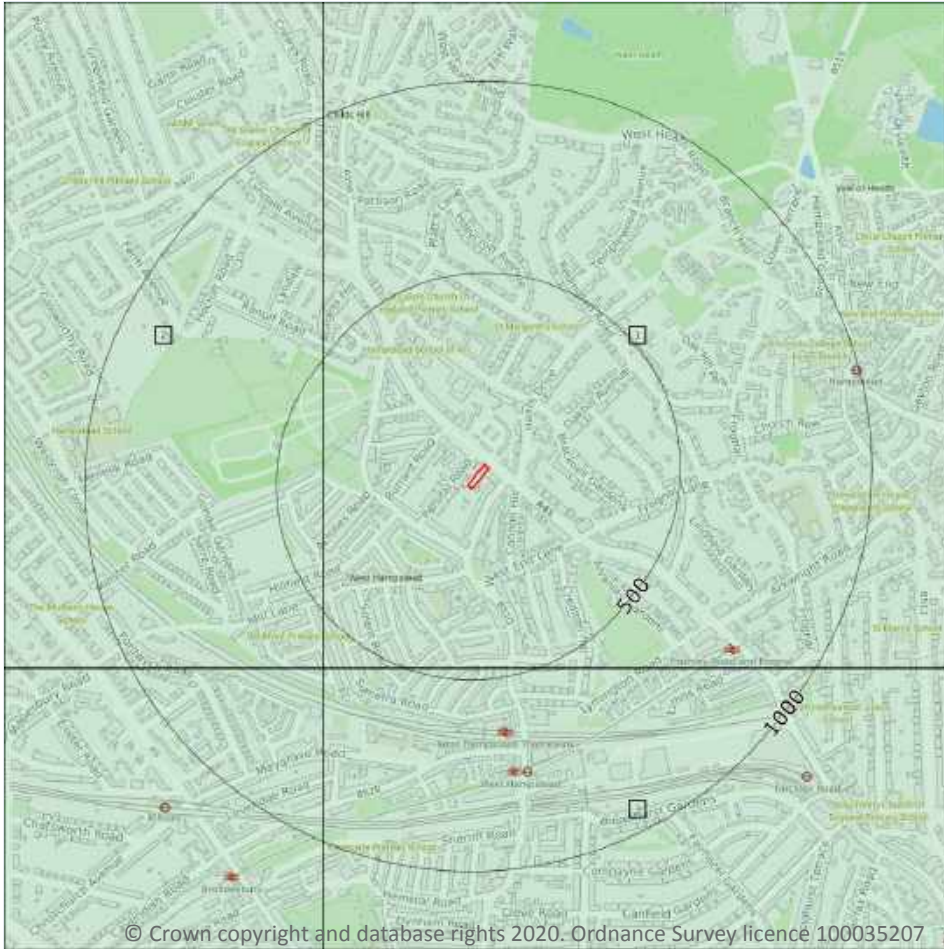
Records within 250m	0
---------------------	---

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
 Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

3

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

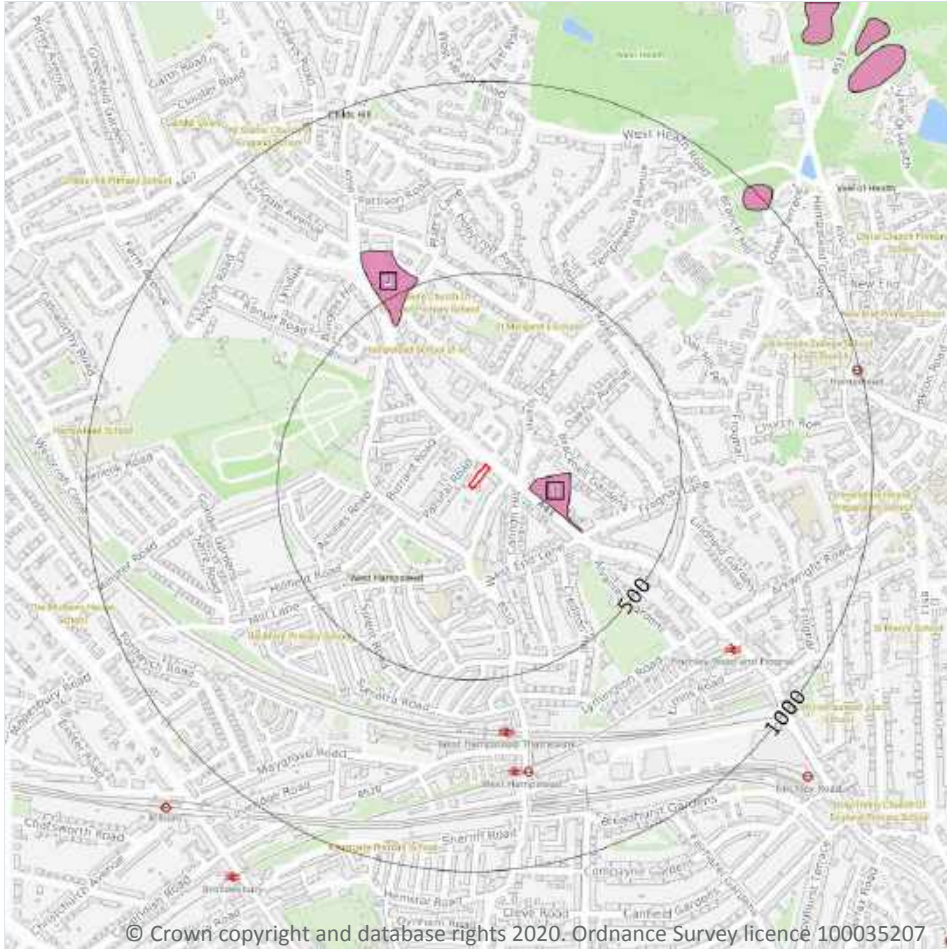
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 67**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TQ28NE
2	379m W	Full	Full	Full	No coverage	TQ28NW
3	469m S	Full	Full	Full	No coverage	TQ28SE

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground



— Site Outline
 Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

2

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 68**

ID	Location	LEX Code	Description	Rock description
1	115m SE	WGR-UKNOWN	Worked Ground (Undivided)	Unknown/unclassified Entry
2	428m NW	WGR-UKNOWN	Worked Ground (Undivided)	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

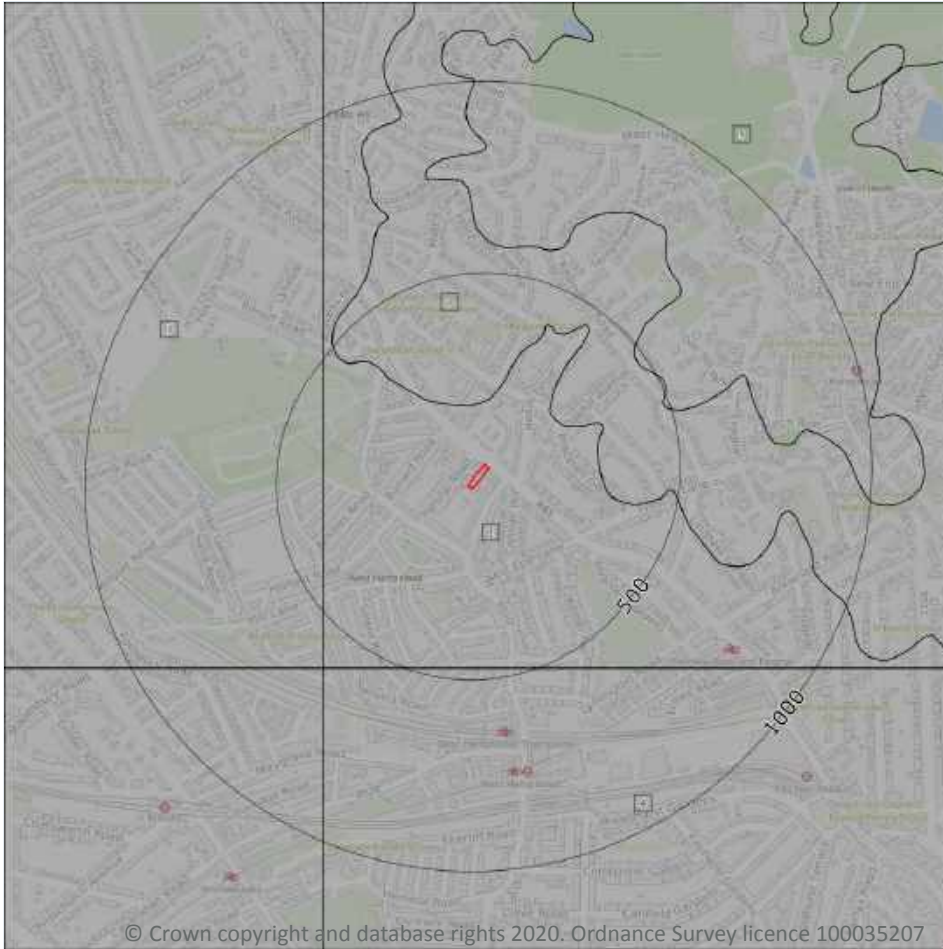
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

5

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 70**

ID	Location	LEX Code	Description	Rock age
1	On site	LC-CLAY	London Clay Formation - Clay	Eocene Epoch
2	157m N	CLGB-SDST	Claygate Member - Sandstone	Eocene Epoch
3	379m W	LC-CLAY	London Clay Formation - Clay	Eocene Epoch
4	469m S	LC-CLAY	London Clay Formation - Clay	Eocene Epoch

ID	Location	LEX Code	Description	Rock age
5	476m NE	BGS-SANDU	Bagshot Formation - Sand	Eocene Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

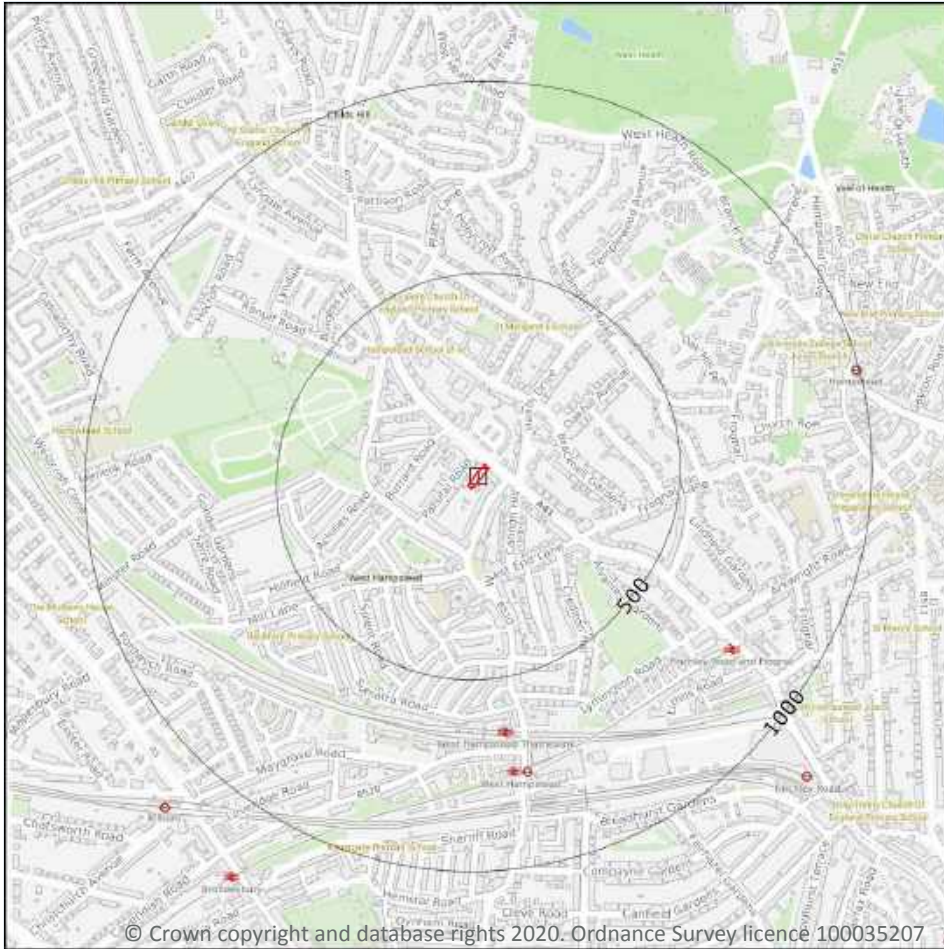
Records within 500m

0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

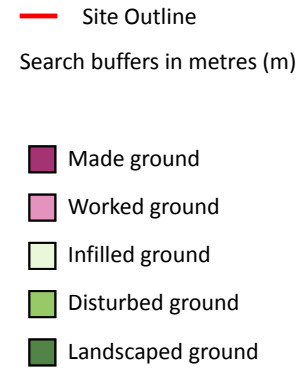
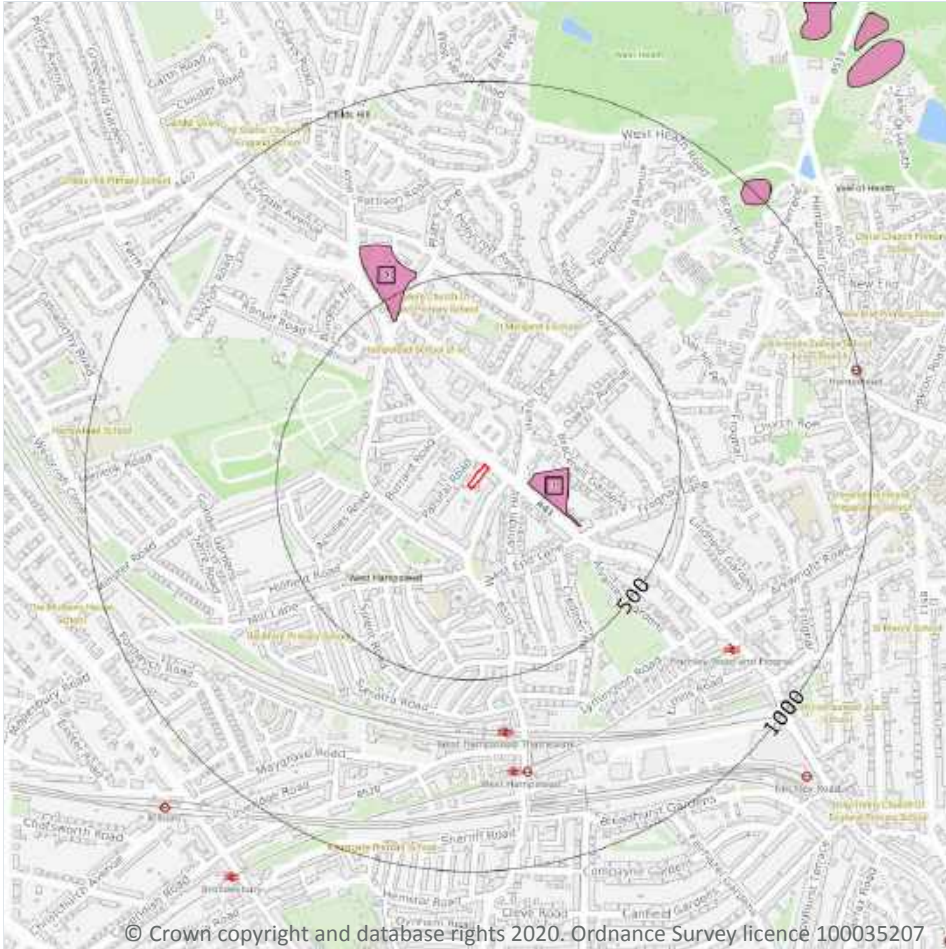
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 72**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW256_north_london_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground



15.2 Artificial and made ground (50k)

Records within 500m

2

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 73**

ID	Location	LEX Code	Description	Rock description
1	109m E	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
2	440m NW	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial

15.4 Superficial geology (50k)

Records within 500m

0

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

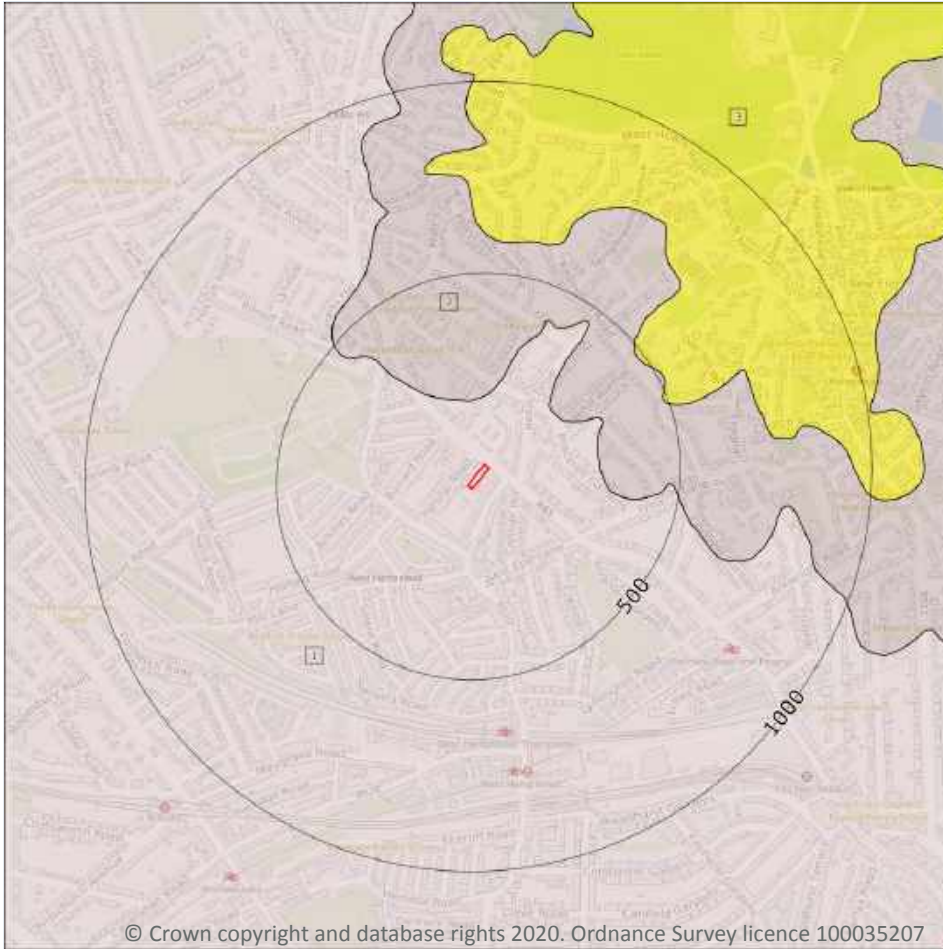
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

3

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 76**

ID	Location	LEX Code	Description	Rock age
1	On site	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN
2	170m N	CLGB-XCZS	CLAYGATE MEMBER - CLAY, SILT AND SAND	YPRESIAN
3	483m NE	BGS-S	BAGSHOT FORMATION - SAND	YPRESIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Moderate	Very Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	0
----------------------------	----------

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.

16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

2

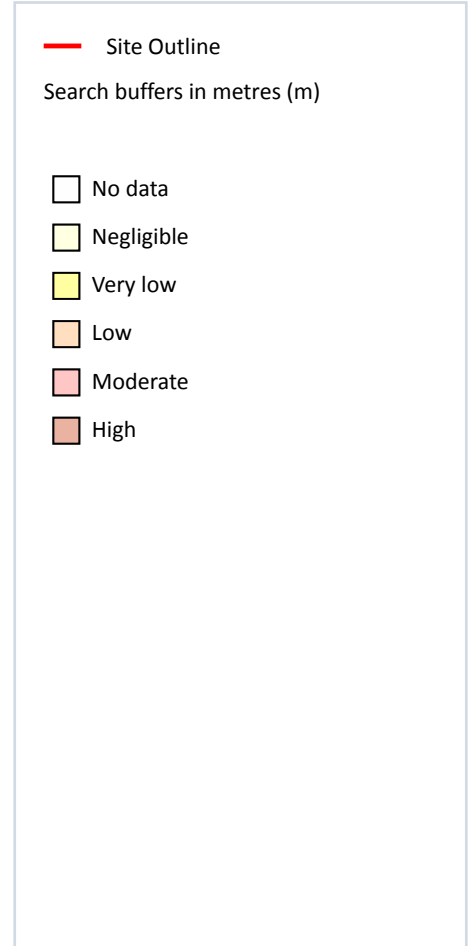
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 78**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	221m S	525460 185260	THE COCK & HOOP WEST END LANE HAMPTREAD	1.21	N	590601
2	224m N	525370 185750	WESTFIELD COLLEGE HAMPSTEAD BHS1-4	15.42	N	590707

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

1

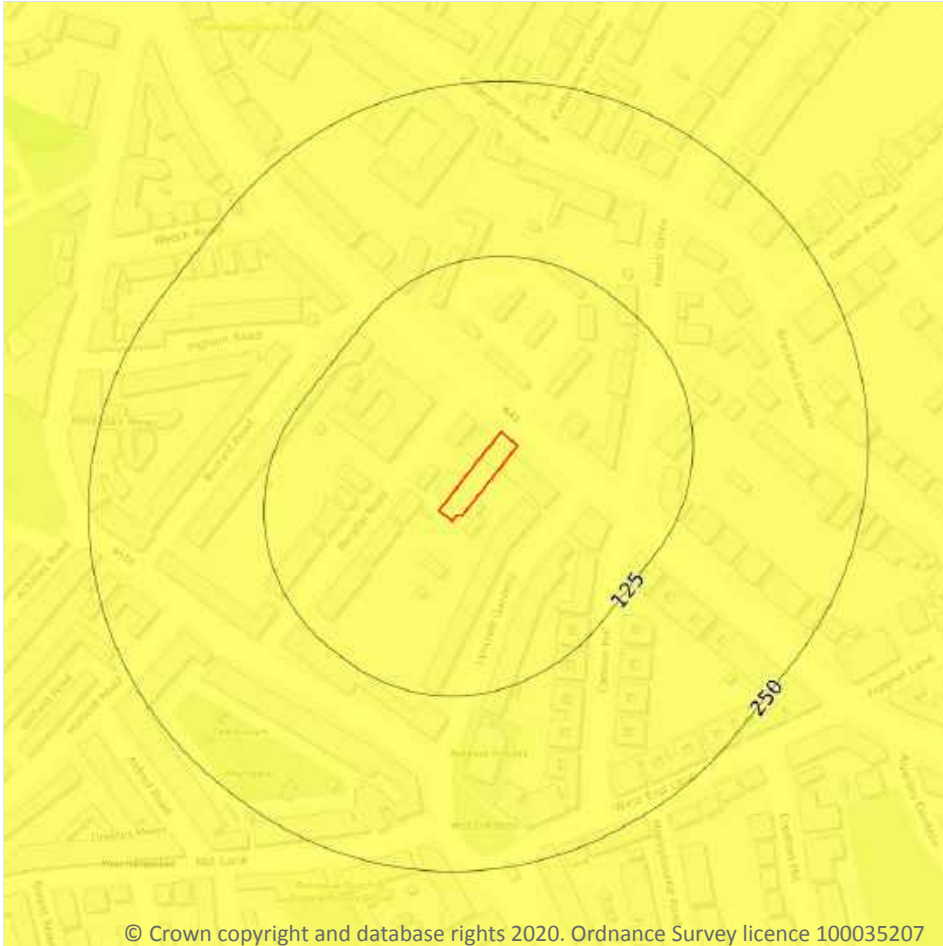
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 79**

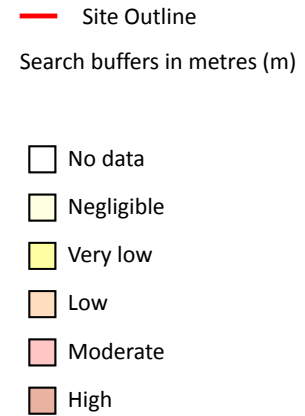
Location	Hazard rating	Details
On site	Moderate	Ground conditions predominantly high plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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17.2 Running sands

Records within 50m

1

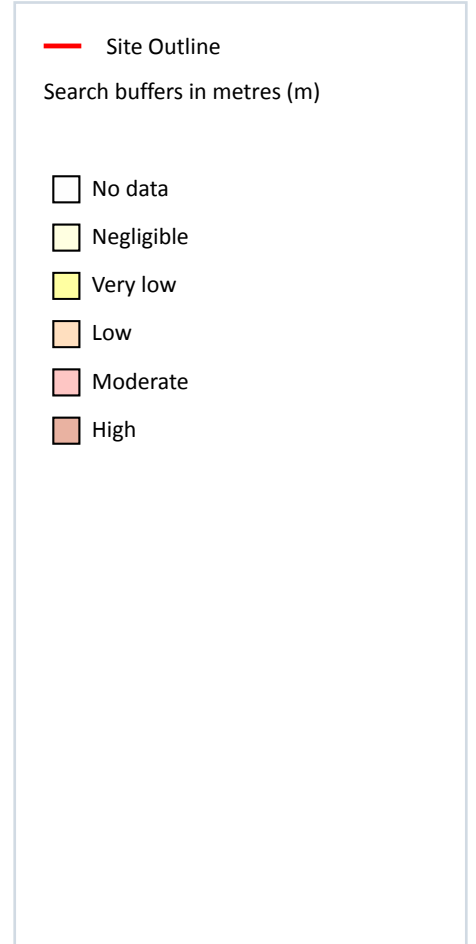
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 80**

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

1

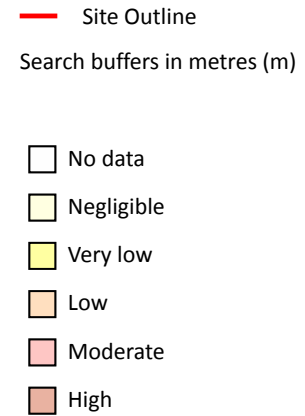
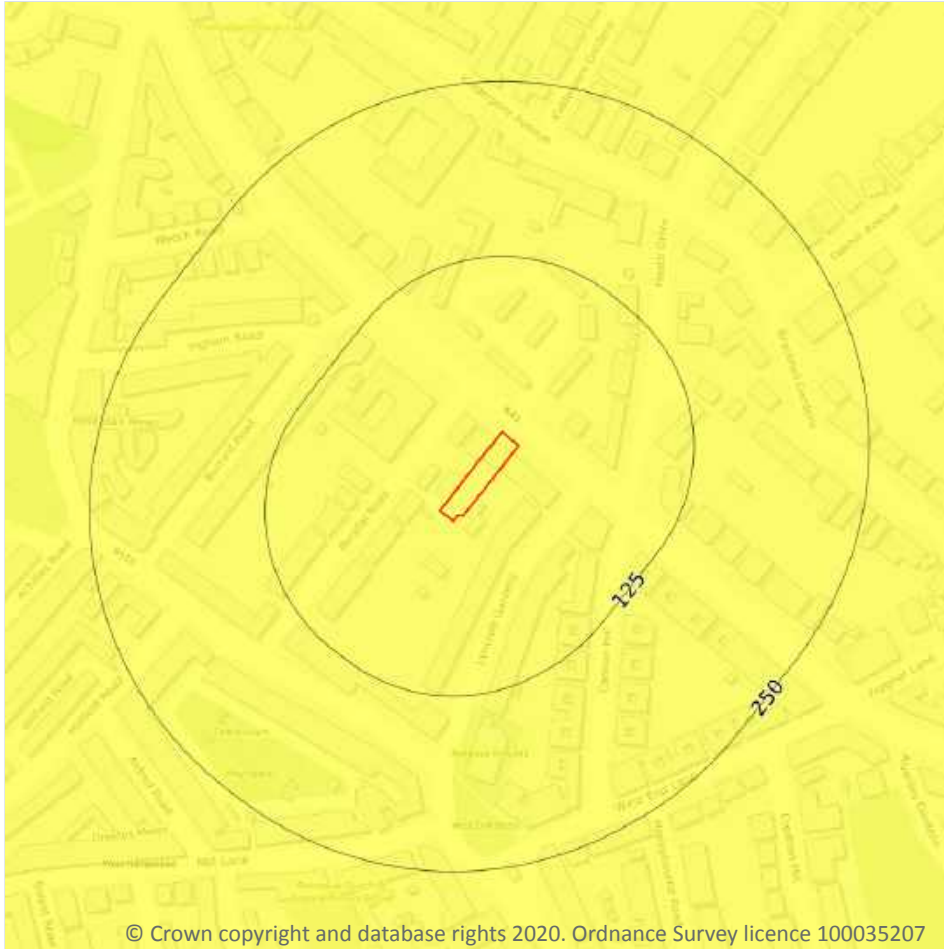
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 81**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

1

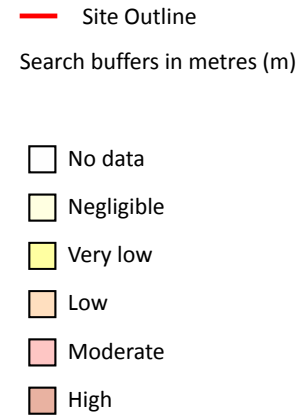
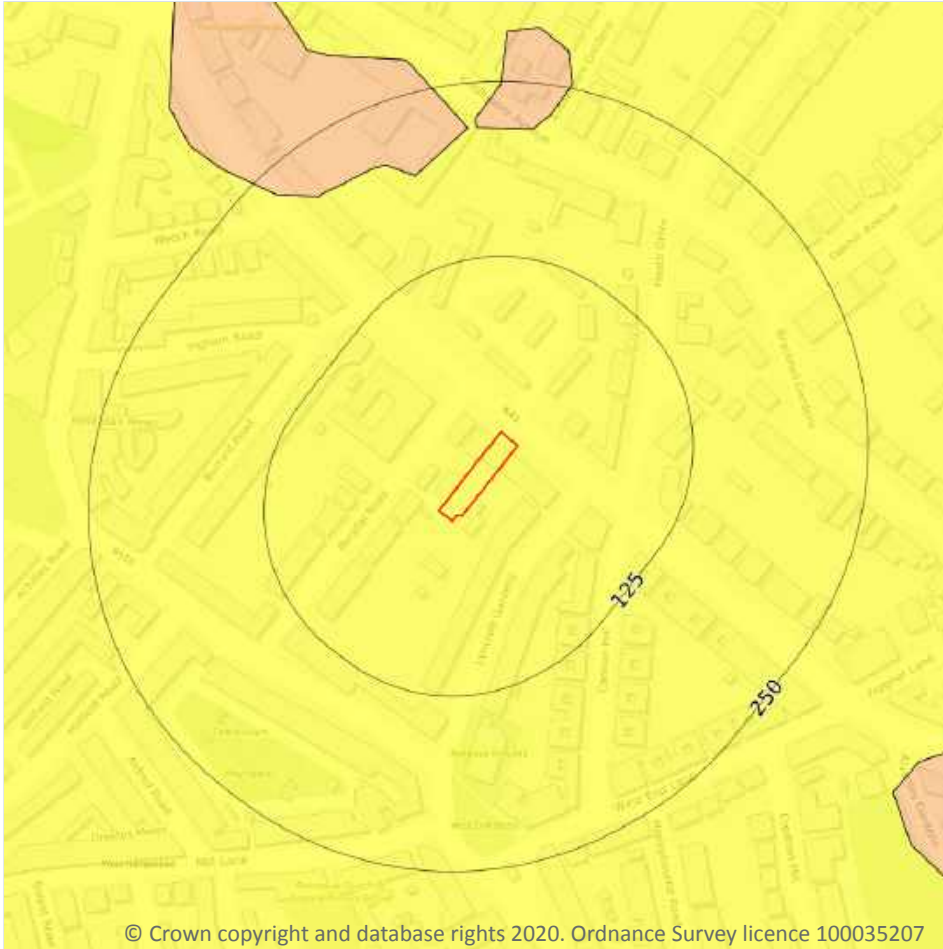
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 82**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

1

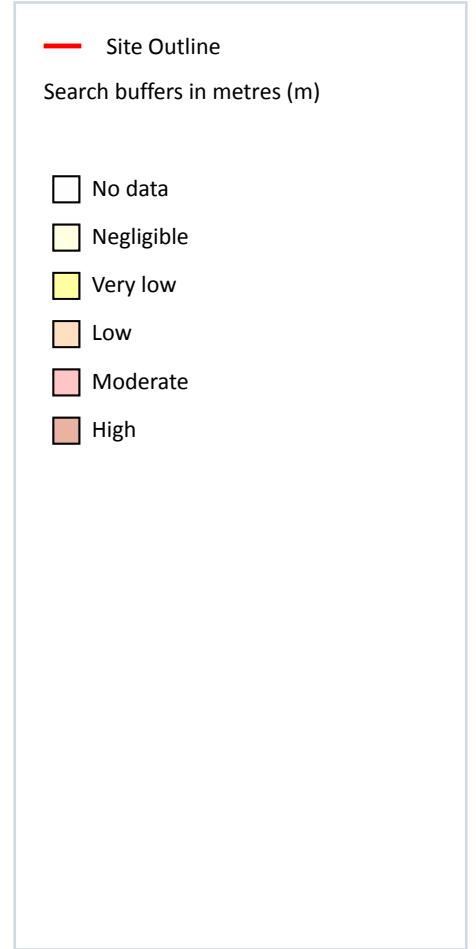
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 83**

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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17.6 Ground dissolution of soluble rocks

Records within 50m

1

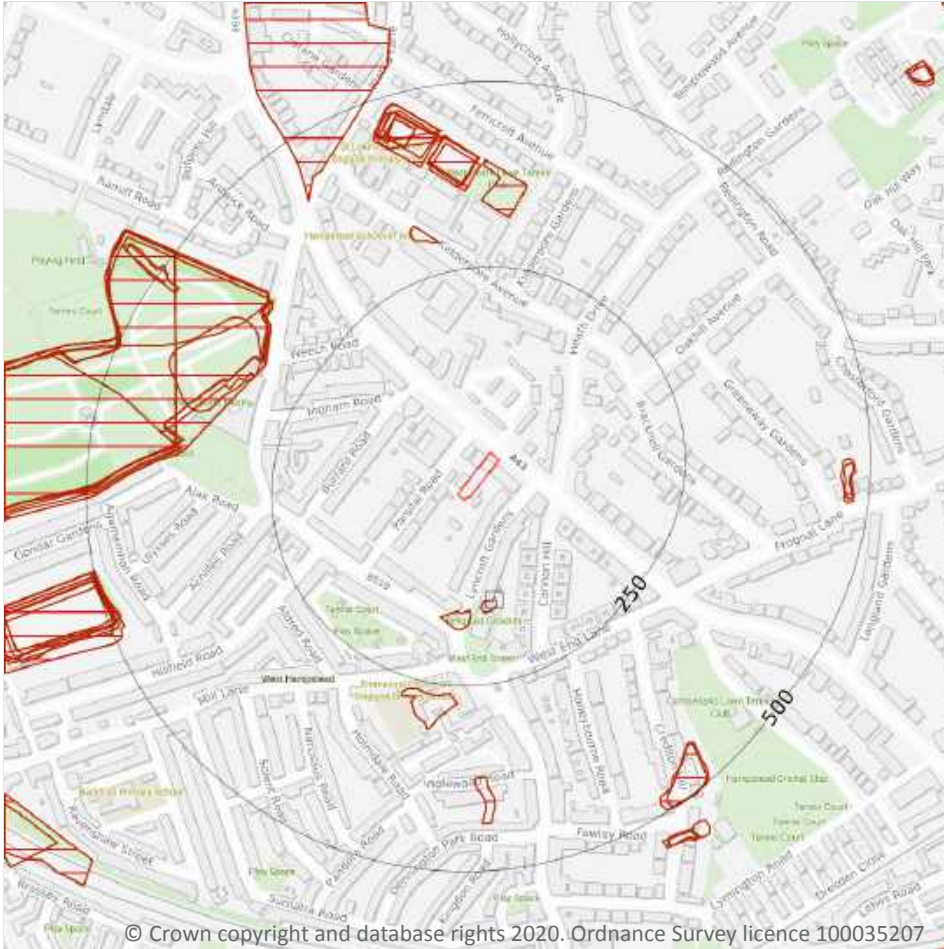
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 84**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m	0
----------------------------	----------

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	2
----------------------------	----------

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 85**

ID	Location	Land Use	Year of mapping	Mapping scale
A	138m S	Gravel Pit	1873	1:10560
A	148m S	Gravel Pits	1873	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	12
-----------------------------	-----------

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 85**

ID	Location	Land Use	Year of mapping	Mapping scale
-	780m SE	Tunnel	1974	1:10000
-	780m SE	Tunnel	1995	1:10000
-	832m SE	Tunnel	1958	1:10560
-	837m SE	Tunnel	1965	1:10560
-	953m SE	Tunnels	1968	1:10560
-	953m SE	Tunnels	1957	1:10560
-	953m SE	Tunnels	1973	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
-	953m SE	Tunnels	1989	1:10000
-	993m SE	Tunnels	1957	1:10560
-	997m SE	Tunnels	1973	1:10000
-	997m SE	Tunnels	1968	1:10560
-	997m SE	Tunnels	1989	1:10000

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Peter Brett Associates (PBA).



18.8 JPB mining areas

Records on site	0
-----------------	---

Areas which could be affected by former coal mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	0
-----------------	---

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
-----------------	---

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

18.13 Clay mining

Records on site

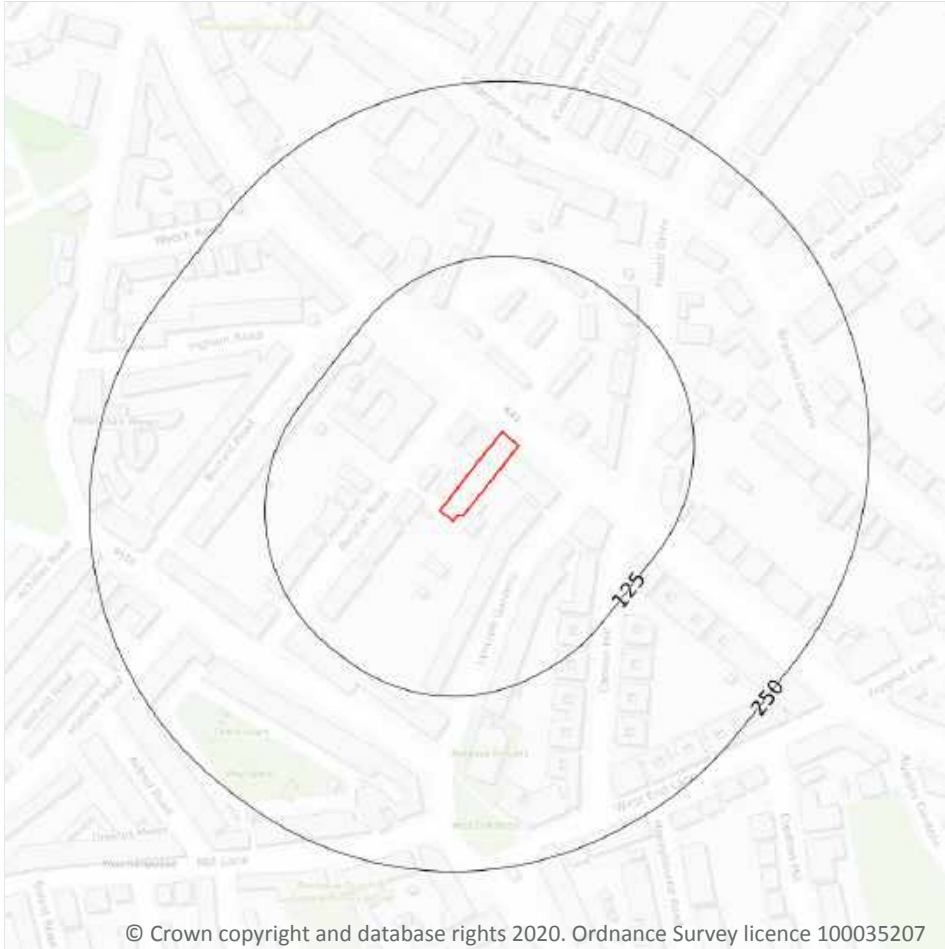
0

Generalised areas that may be affected by kaolin and ball clay extraction.

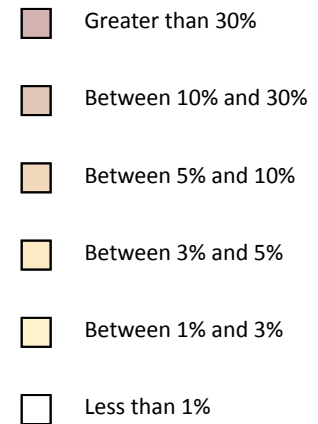
This data is sourced from the Kaolin and Ball Clay Association (UK).



19 Radon



— Site Outline
 Search buffers in metres (m)



19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on [page 90](#)

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None**

This data is sourced from the British Geological Survey and Public Health England.

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	No data	No data	No data	No data	No data	No data	No data
On site	No data	No data	No data	No data	No data	No data	No data

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

4

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	18	3.2	385	264	0.7	90	65	28	25
On site	19	3.3	396	272	0.7	88	69	29	25
On site	20	3.5	458	315	0.6	96	69	29	27
On site	21	3.7	507	348	0.6	95	75	31	29

This data is sourced from the British Geological Survey.



20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

0

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.



This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



Appendix F

Factual Report



Site	Garages at Parsifal Behind 521 Finchley Road London NW3
Client	Gary Sugarman
Date	21/05/20
Our Ref	FACT/11384



FACTUAL REPORT CONTENT

- 1.0 SITE PLAN
- 2.0 TRIAL PIT SECTION DRAWINGS
- 3.0 BOREHOLE LOGS
- 4.0 LANDBORNE GAS ASSESSMENT
- 5.0 GEOTECHNICAL SOIL TESTING RESULTS
- 6.0 CHEMICAL SOIL TESTING RESULTS
- 7.0 REPORT NOTES

Chelmer Global Ltd

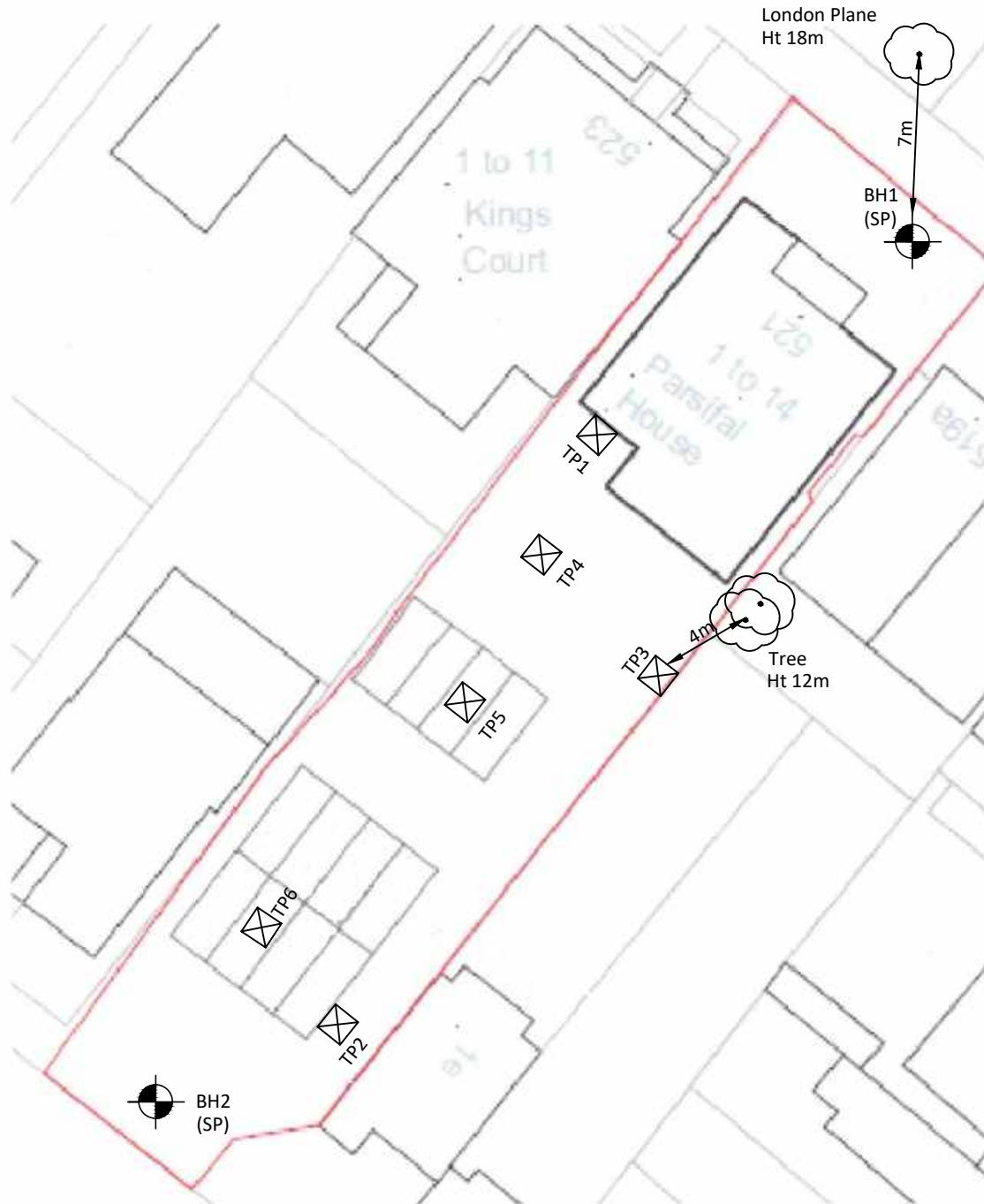
Unit 7 Hall Road Industrial Estate, Hall Road, Southminster, Essex CM0 7DA

Essex: 01245 400930 | info@siteinvestigations.co.uk | www.siteinvestigations.co.uk



Site: Garages Parsifal, (Behind 521 Finchley Road), London, NW3 7BT		Client: Gary Sugarman			Identification: SP	
Contract Number: 11384	Date: 21/05/2020	Logged By: PE	Checked by: MCE	Drawn by: CCP	Sheet 1 of 1	
Easting: ND	Northing: ND	Ground Level: ND	Plan: ND	Weather: Sunny	Scale: NTS	

Sketch Site Plan



Remarks: On site tree identification for guidance only. Not authenticated.
All dimension in metres.

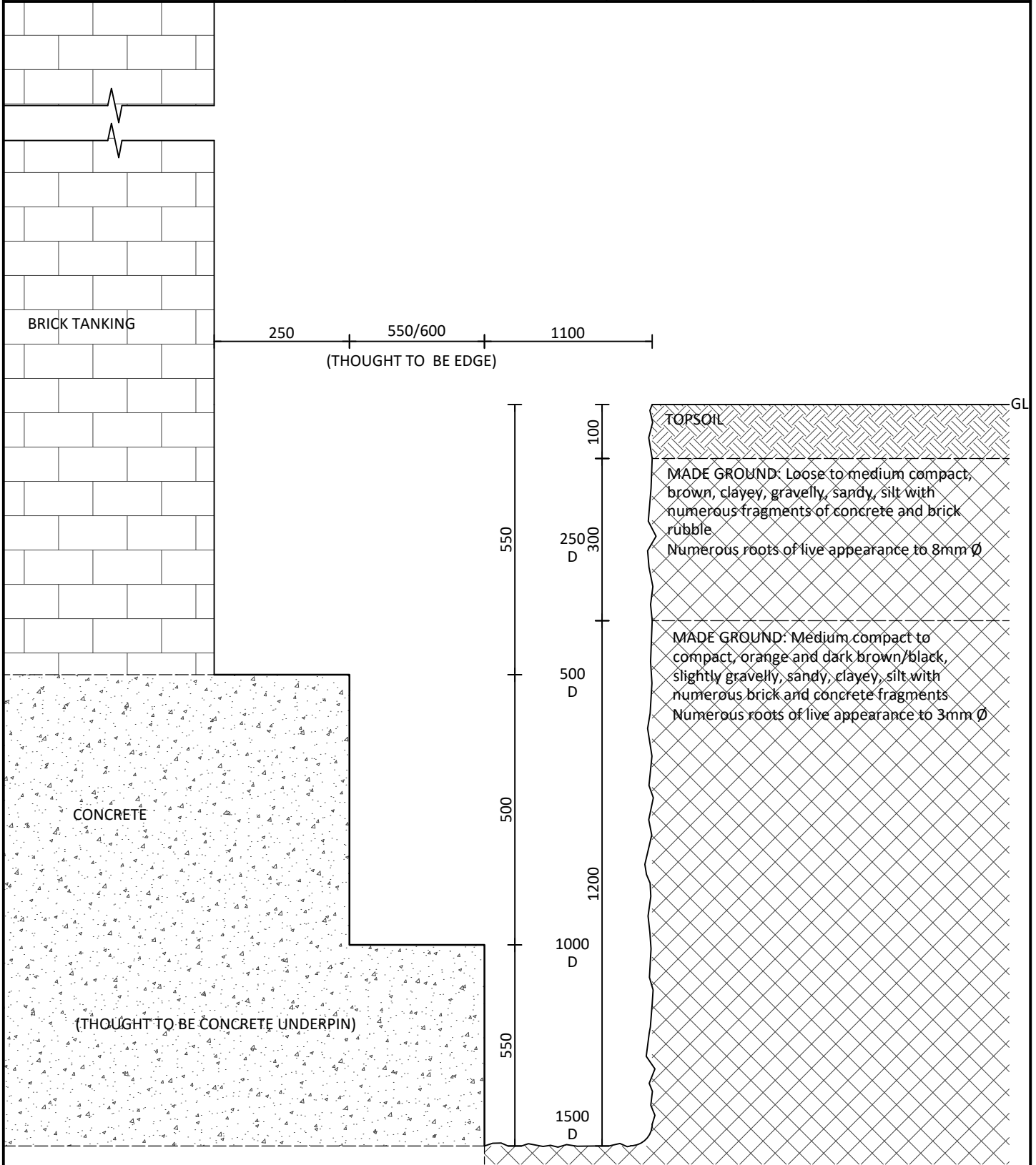
Key:

- ND No Data
- NTS Not to Scale
- Trial Pit and Borehole
- Trial Pit
- Borehole
- MH Manhole
- G Gully
- RWP Rainwater Pipe
- Tree/Shrub




Site: Garages at Parsifal, (Behind 521 Finchley Road), London, NW3 7BT			Client: Gary Sugarman		Identification TP1
Contract Number: 11384	Date: 21/05/2020	Logged By: PE	Checked by: MCE	Drawn by: CCP	
Easting: ND			Northing: ND	Ground Level: ND	Excavation Method: Hand Tools
Weather: Sunny			Scale: NTS		Sheet 1 of 1

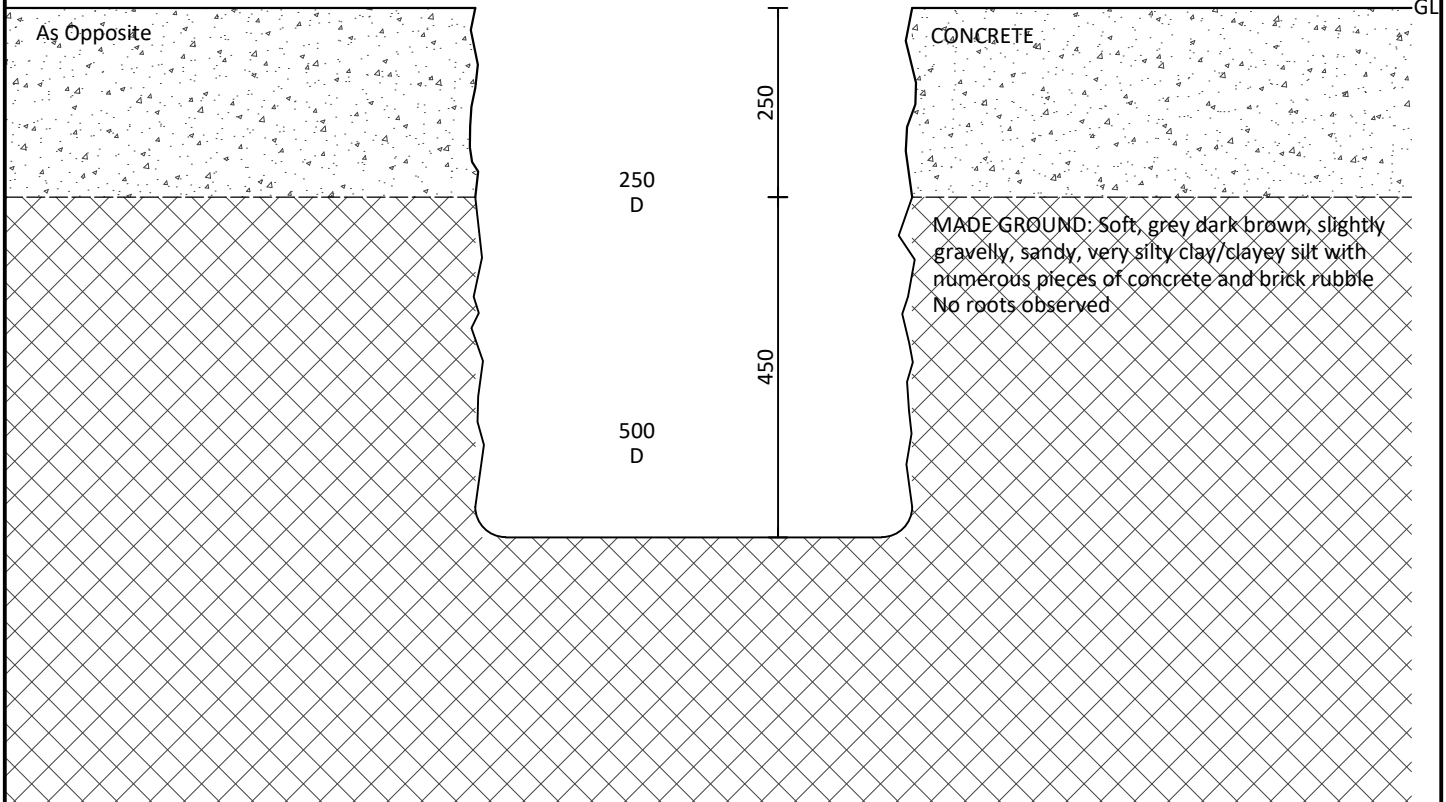
Trial Pit Log



TRIAL PIT ENDS AT 1600mm UNABLE TO DETERMINE FOUNDATION UNDERSIDE

Remarks: Groundwater was not encountered. All dimensions in millimetres.	Key:	
	ND No Data NTS Not to Scale GL Ground Level D Small Disturbed Sample M Mackintosh Probe	V Pilcon Vane (kPa) B Bulk Disturbed Sample TDTD Too Dense to Drive

	Site: Garages at Parsifal, (Behind 521 Finchley Road), London, NW3 7BT			Client: Gary Sugarman		Identification TP2
	Contract Number: 11384	Date: 21/05/2020	Logged By: PE	Checked by: MCE	Drawn by: CCP	
Trial Pit Log	Easting: ND	Northing: ND	Ground Level: ND	Excavation Method: Hand Tools	Weather: Sunny	Scale: NTS

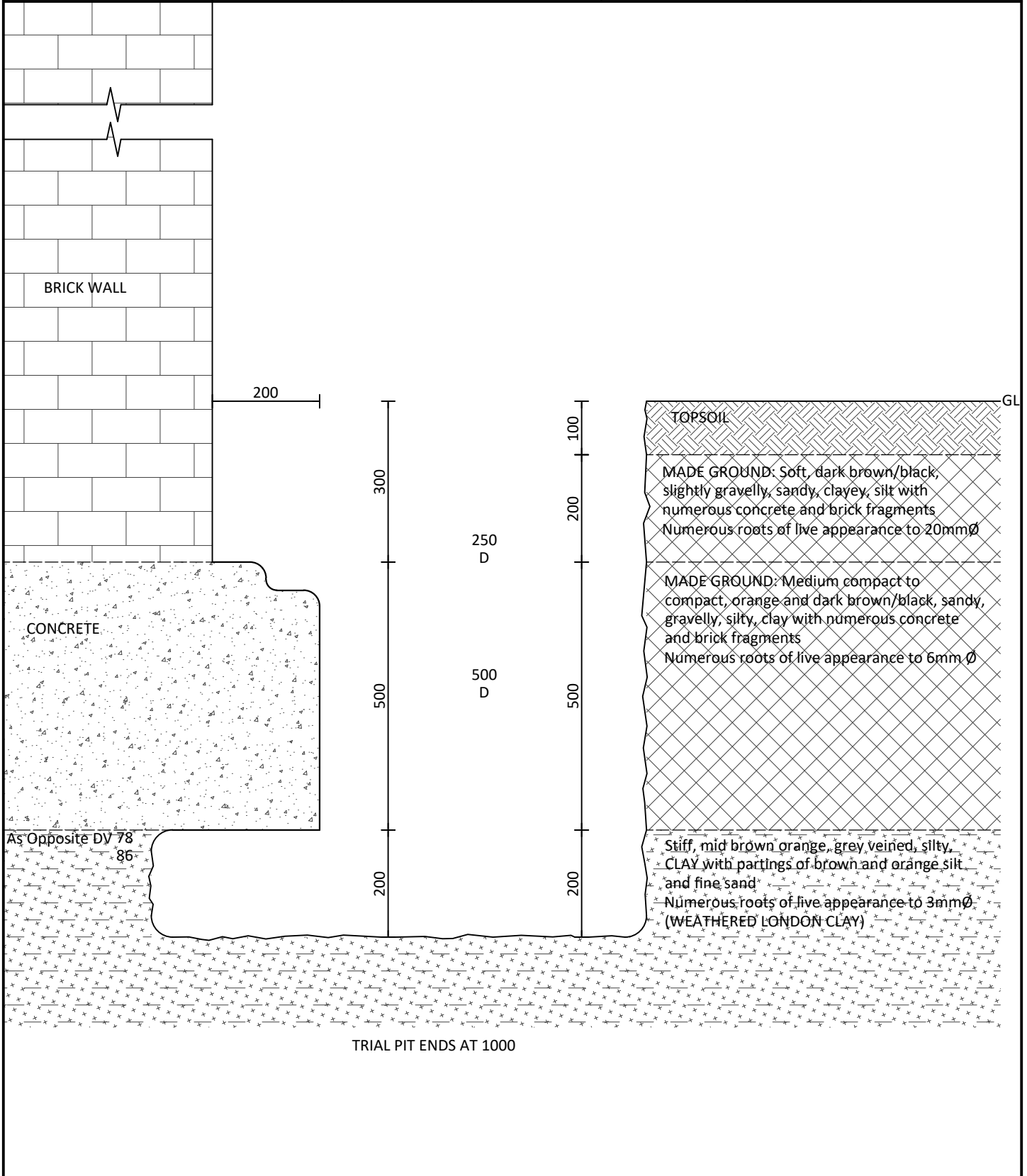


TRIAL PIT ENDS AT 700

Remarks: Groundwater was not encountered. All dimensions in millimetres.	Key:	
	ND No Data NTS Not to Scale GL Ground Level D Small Disturbed Sample M Mackintosh Probe	V Pilcon Vane (kPa) B Bulk Disturbed Sample TDTD Too Dense to Drive



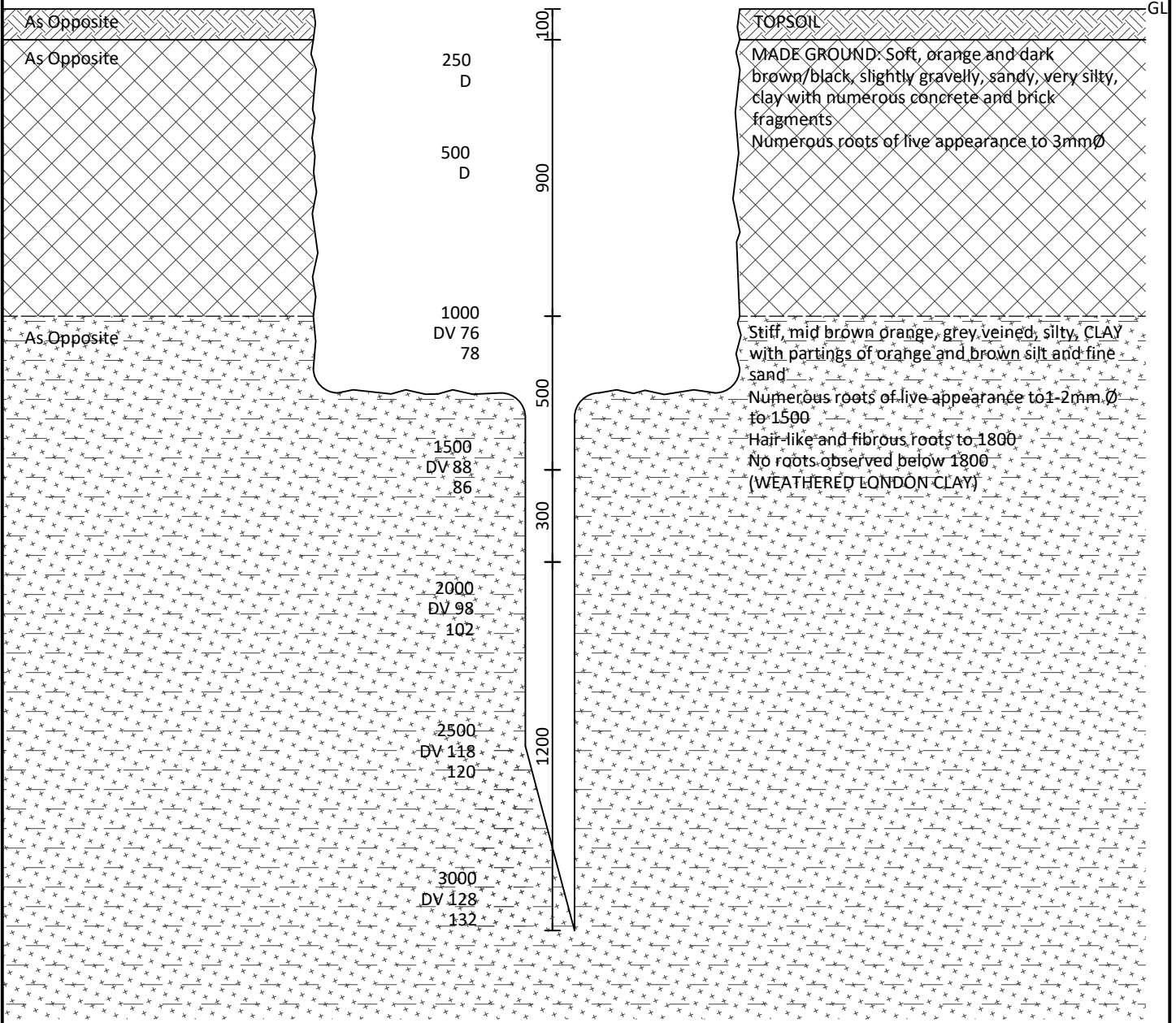
Site: Garages at Parsifal, (Behind 521 Finchley Road), London, NW3 7BT			Client: Gary Sugarman		Identification TP3
Contract Number: 11384	Date: 21/05/2020	Logged By: PE	Checked by: MCE	Drawn by: CCP	
Trial Pit Log	Easting: ND	Northing: ND	Ground Level: ND	Excavation Method: Hand Tools	Weather: Sunny
					Scale: NTS



Remarks: Groundwater was not encountered. All dimensions in millimetres.	Key:	
	ND No Data NTS Not to Scale GL Ground Level D Small Disturbed Sample M Mackintosh Probe	V Pilcon Vane (kPa) B Bulk Disturbed Sample TDTD Too Dense to Drive



Trial Pit Log	Site: Garages at Parsifal, (Behind 521 Finchley Road), London, NW3 7BT			Client: Gary Sugarman		Identification TP4
	Contract Number: 11384	Date: 21/05/2020	Logged By: PE	Checked by: MCE	Drawn by: CCP	
	Easting: ND	Northing: ND	Ground Level: ND	Excavation Method: Hand Tools	Weather: Sunny	Scale: NTS

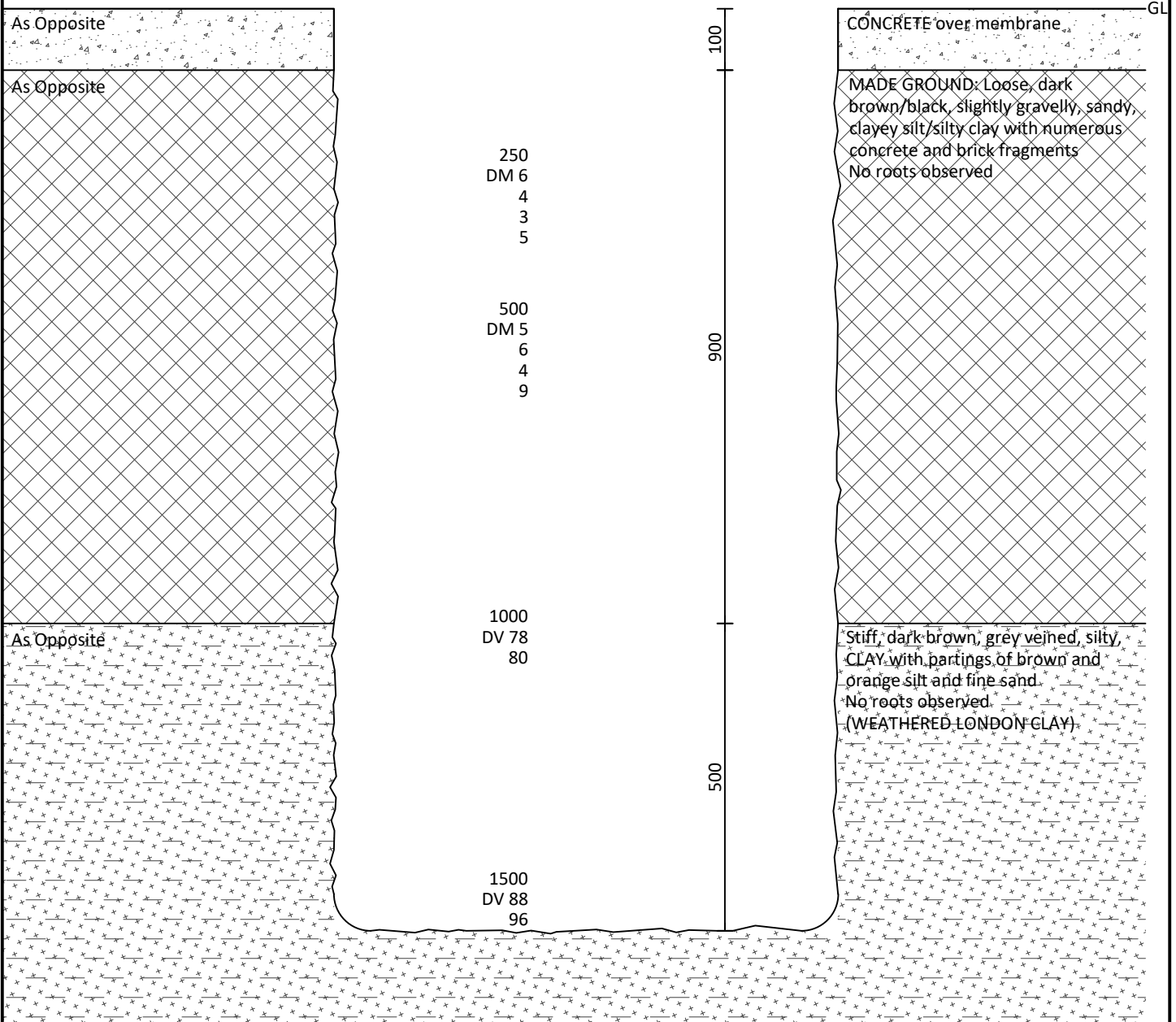


TRIAL PIT/BORHEOLE ENDS AT 3000


Remarks: Groundwater was not encountered. All dimensions in millimetres. Trial pit extended by hand auger. Borehole dry and open on completion.	Key:	
	ND No Data NTS Not to Scale GL Ground Level D Small Disturbed Sample M Mackintosh Probe	V Pilcon Vane (kPa) B Bulk Disturbed Sample TDTD Too Dense to Drive

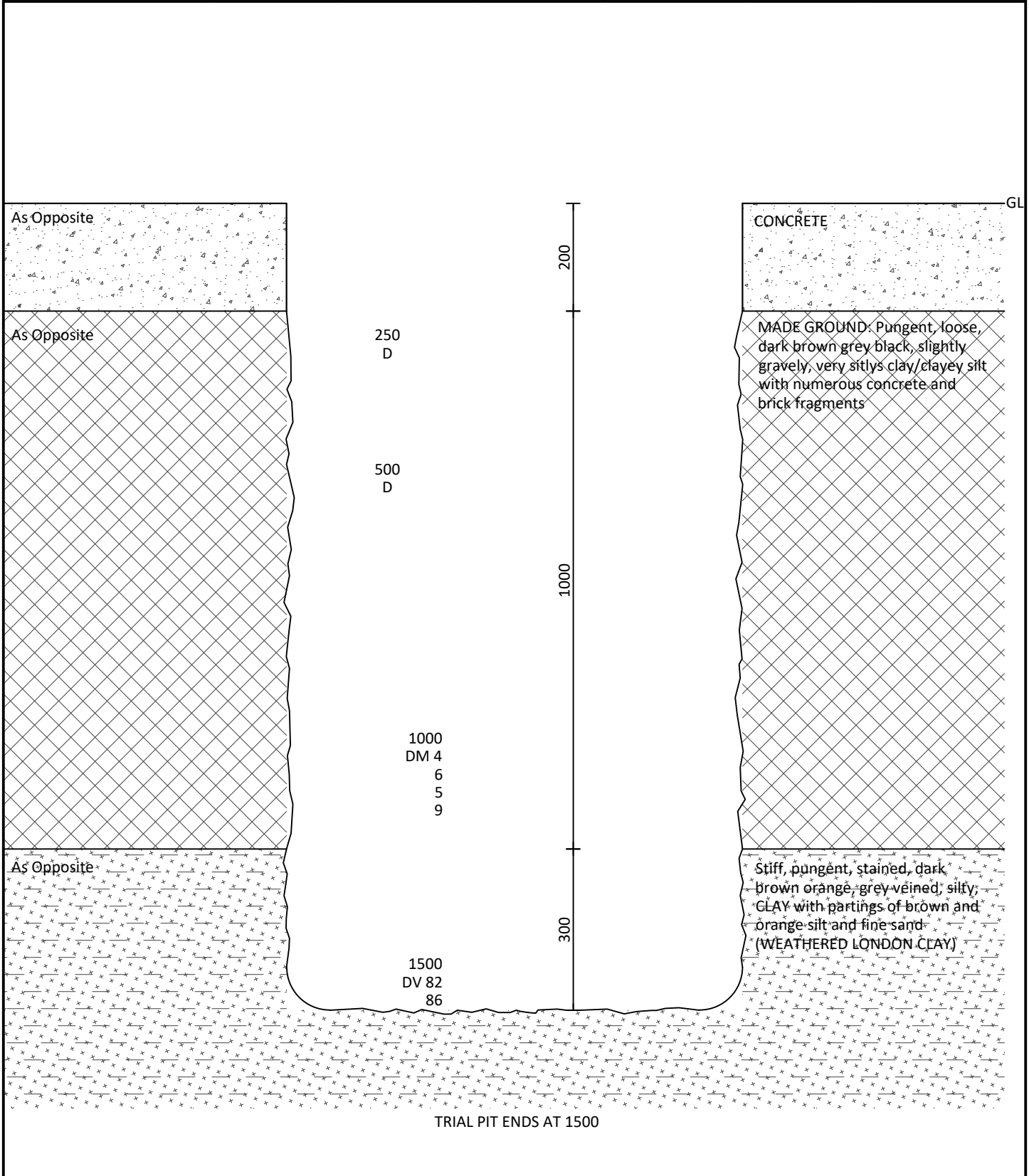


Trial Pit Log	Site: Garages at Parsifal, (Behind 521 Finchley Road), London, NW3 7BT			Client: Gary Sugarman		Identification TP5
	Contract Number: 11384	Date: 21/05/2020	Logged By: PE	Checked by: MCE	Drawn by: CCP	
	Easting: ND	Northing: ND	Ground Level: ND	Excavation Method: Hand Tools	Weather: Sunny	Scale: NTS




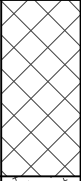

Remarks: Groundwater was not encountered. All dimensions in millimetres.	Key:	
	ND No Data NTS Not to Scale GL Ground Level D Small Disturbed Sample M Mackintosh Probe	V Pilon Vane (kPa) B Bulk Disturbed Sample TDTD Too Dense to Drive

	Site: Garages at Parsifal, (Behind 521 Finchley Road), London, NW3 7BT			Client: Gary Sugarman		Identification TP6
	Contract Number: 11384	Date: 21/05/2020	Logged By: PE	Checked by: MCE	Drawn by: CCP	
Trial Pit Log	Easting: ND	Northing: ND	Ground Level: ND	Excavation Method: Hand Tools	Weather: Sunny	Scale: NTS




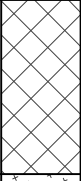


Remarks: Groundwater was not encountered. All dimensions in millimetres. Pungent odor noted throughout MADE GROUND and top of natural material encountered.	Key:	
	ND No Data NTS Not to Scale GL Ground Level D Small Disturbed Sample M Mackintosh Probe	V Pilcon Vane (kPa) B Bulk Disturbed Sample TDTD Too Dense to Drive

	Site: Garages at Parsifal, (Behind 521 Finchley Road), London, NW3 7BT		Client: Gary Sugarman			Identification BH1
	Contract Number: 11384	Date: 21/05/2020	Logged By: PE	Checked by: MCE	Drawn by: CCP	
Borehole Log	Easting: ND	Northing: ND	Ground Level: ND	Plant Used: Secondman	Weather: Sunny	Scale: NTS

Samples & In Situ Testing			Strata Details				Roots and Groundwater	
Depth (m)	Sample	Test Result	Depth (m)	Thickness (m)	Legend	Strata Description	Roots Information	Groundwater (m)
GL			GL					
0.25	D			1.20		PAVING over MADE GROND: Medium compact to compact, dark brown/black, gravelly, sandy, clayey, silt with numerous pieces of concrete and brick rubble	Roots of live and dead appearance to 1-2mmØ to 2.20.	
0.50	D							
1.00	D							
1.50	D	V 128 130		6.80		Stiff, mid orange-brown, grey veined, silty, CLAY with partings of orange and brown silt and fine sand (WEATHERED LONDON CLAY) becoming very stiff from 2.50	Hair-like and fibrous roots to 3.40.	
2.00	D	V 134 138						
2.50	D							
3.00	D	V 140+ 140+						
3.50	D							
4.00	D	V 140+ 140+						
4.50	D							
5.00	D	V 140+ 140+						
6.00	D	V 140+ 140+		8.00		BOREHOLE ENDS AT 8.00	No roots observed below 3.40.	
7.00	D	V 140+ 140+						
8.00	D	V 140+ 140+						

Remarks: Borehole 'dry' and 'open' on completion. All dimensions in metres. Standpipe installed at 8m on completion (1m plain plastic pipe and 7m slotted plastic pipe)	Key: ND No Data CFA Continuous Flight Auger NTS Not to Scale GL Ground Level D Small Disturbed Sample V Pilcon Vane (KPa) M Mackintosh Probe SPT Standard Penetration Test N Blow Count TDTD Too Dense to Drive
---	--

	Site: Garages at Parsifal, (Behind 521 Finchley Road), London, NW3 7BT		Client: Gary Sugarman			Identification BH2
	Contract Number: 11384	Date: 21/05/2020	Logged By: PE	Checked by: MCE	Drawn by: CCP	
Borehole Log	Easting: ND	Northing: ND	Ground Level: ND	Plant Used: Secondman	Weather: Sunny	Scale: NTS

Samples & In Situ Testing			Strata Details				Roots and Groundwater	
Depth (m)	Sample	Test Result	Depth (m)	Thickness (m)	Legend	Strata Description	Roots Information	Groundwater (m)
GL			GL					
0.25	D			1.20		CONCRETE over MADE GROUND: Loose, dark brown/black, slightly gravelly, sandy, very silty clay/clayey silt with numerous concrete and brick fragments	No roots observed	
0.50	D							
1.00	D	M 5 9 7 9		1.20		Stiff, mid orange-brown, grey veined, silty, CLAY with partings of orange and brown silt and fine sand (WEATHERED LONDON CLAY)		
1.50	D	V 110 108						
2.00	D	V 116 118		6.80	becoming very stiff from 3.80.		
2.50	D							
3.00	D	V 122 126						
3.50	D							
4.00	D	V 140+ 140+						
4.50	D							
5.00	D	V 140+ 140+						
6.00	D	V 140+ 140+						
7.00	D	V 140+ 140+						
8.00	D	V 140+ 140+	8.00					

Remarks: Borehole 'dry' and 'open' on completion. All dimensions in metres. Standpipe installed at 8m on completion (1m plain plastic pipe and 7m slotted plastic pipe)	Key: ND No Data CFA Continuous Flight Auger NTS Not to Scale GL Ground Level D Small Disturbed Sample V Pilcon Vane (KPa) M Mackintosh Probe SPT Standard Penetration Test N Blow Count TDTD Too Dense to Drive
---	--

Laboratory Report



Site

Garages @ Parsifal, Finchley Road, London, NW3
7BT

Client

Gary Sugarman

Date

05-Jun-20

Our Ref

CSI/11384

CGL Ref

11384

Chelmer Global Ltd

Unit 7 Hall Road Industrial Estate, Hall Road, Southminster, Essex CM0 7DA

Essex: 01245 400930 | info@siteinvestigations.co.uk | www.siteinvestigations.co.uk



Content Summary

This report contains all test results as indicated on the test instruction/summary.

CGL Reference : 11384

Client Reference : CSI/11384

For the attention of : Gary Sugarman

This report comprises of the following :

- 1 Cover Page
- 1 Inside Cover/Contents Page
- 4 Pages of Results
- 1 Moisture/Shear Strength Chart
- 1 Plasticity Chart
- 1 Limitations of Report Page

Notes :

General

Please refer to report summary notes for details pertaining to methods undertaken and their subsequent accreditations

Samples were supplied by [Chelmer Global Ltd](#)

All tests performed in-house unless otherwise stated

Deviant Samples

Samples were received in suitable containers	Yes
A date and time of sampling was provided	Yes
Arrived damaged and/or denatured	No

Laboratory Testing Results

BS 1377 : 1990



Job Number : 11384
 Client : Gary Sugarman
 Client Reference : CSI/11384
 Site Name : Garages @ Parsifal, Finchley Road, London, NW3 7BT

Date Received : 26/05/2020
 Date Testing Started : 26/05/2020
 Date Testing Completed : 05/06/2020
 Laboratory Used : Chelmer Geotechnical, CM3 8AB

Sample Ref			Sample Type	*Moisture Content (%) [1]	*Soil Fraction > 0.425mm (%) [2]	*Liquid Limit (%) [3]	*Plastic Limit (%) [4]	*Plasticity Index (%) [5]	*Liquidity Index (%) [5]	*Modified Plasticity Index (%) [6]	*Soil Class [7]	Filter Paper Contact Time (h) [8]	*Soil Sample Suction (kPa)	Insitu Shear Vane Strength (kPa) [9]	Organic Content (%) [10]	*pH Value [11]	*Sulphate Content (g/l)		
BH/TP/W/S	Depth (m)	UID															SO ₃ [12]	SO ₄ [13]	Class [14]
BH1	1.5		D	28	<5	69	29	40	-0.02	38	CH			129					
BH1	3.0		D	27	<5	70	28	42	-0.01	40	CV			140					
BH1	4.0		D	28	<5	72	27	45	0.02	43	CV			140					
BH1	6.0		D	31	<5	73	28	45	0.06	42	CV			140					
BH1	8.0		D	28	<5	71	30	41	-0.06	39	CV			140					

Notes :- *UKAS Accredited Tests

[1] BS 1377 : Part 2 : 1990, Test No 3.2
 [2] Estimated if <5%, otherwise measured
 [3] BS 1377 : Part 2 : 1990, Test No 4.4
 [4] BS 1377 : Part 2 : 1990, Test No 5.3
 [5] BS 1377 : Part 2 : 1990, Test No 5.4
 [6] BRE Digest 240 : 1993

[7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils
 [8] In-house method S9a adapted from BRE IP 4/93
 [9] Values of shear strength were determined in situ by Chelmer Global using a Pilcon hand vane or Geonor vane (GV).
 [10] BS 1377 : Part 3 : 1990, Test No 4
 [11] BS 1377 : Part 2 : 1990, Test No 9

[12] BS 1377 : Part 3 : 1990, Test No 5.6
 [13] SO₄ = 1.2 x SO₃
 [14] BRE Special Digest One (Concrete in Aggressive Ground) 2005

Note that if the SO₄ content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4m or DS-5m class respectively unless water soluble magnesium testing is undertaken to prove otherwise

Key
D - Disturbed sample
B - Bulk sample
U - U100 (undisturbed sample)
W - Water sample
ENP - Essentially Non-Plastic
US - Underside Foundation

Comments :-

Technician :- MW
 Checked & Authorised By:-  Martin Edwards- Chelmer Global Company Director
 Date Checked :- 08/06/2020

Laboratory Testing Results

BS 1377 : 1990



Job Number : 11384
 Client : Gary Sugarman
 Client Reference : CSI/11384
 Site Name : Garages @ Parsifal, Finchley Road, London, NW3 7BT

Date Received : 26/05/2020
 Date Testing Started : 26/05/2020
 Date Testing Completed : 05/06/2020
 Laboratory Used : Chelmer Geotechnical, CM3 8AB

Sample Ref			Sample Type	*Moisture Content (%) [1]	*Soil Fraction > 0.425mm (%) [2]	*Liquid Limit (%) [3]	*Plastic Limit (%) [4]	*Plasticity Index (%) [5]	*Liquidity Index (%) [5]	*Modified Plasticity Index (%) [6]	*Soil Class [7]	Filter Paper Contact Time (h) [8]	*Soil Sample Suction (kPa)	Insitu Shear Vane Strength (kPa) [9]	Organic Content (%) [10]	*pH Value [11]	*Sulphate Content (g/l)		
BH/TP/W/S	Depth (m)	UID															SO ₃ [12]	SO ₄ [13]	Class [14]
BH2	1.5		D	36	<5	77	29	48	0.14	45	CV			109					
BH2	2.0		D	34	<5	74	30	44	0.09	41	CV			117					
BH2	2.5		D	36	<5	74	32	42	0.09	40	CV								
BH2	3.5		D	34	<5	76	30	46	0.08	44	CV								
BH2	5.0		D	33	<5	74	31	43	0.06	41	CV			140					
BH2	7.0		D	33	<5	75	28	47	0.10	45	CV			140					

Notes :- *UKAS Accredited Tests

[1] BS 1377 : Part 2 : 1990, Test No 3.2
 [2] Estimated if <5%, otherwise measured
 [3] BS 1377 : Part 2 : 1990, Test No 4.4
 [4] BS 1377 : Part 2 : 1990, Test No 5.3
 [5] BS 1377 : Part 2 : 1990, Test No 5.4
 [6] BRE Digest 240 : 1993

[7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils
 [8] In-house method S9a adapted from BRE IP 4/93
 [9] Values of shear strength were determined in situ by Chelmer Global using a Pilcon hand vane or Geonor vane (GV).
 [10] BS 1377 : Part 3 : 1990, Test No 4
 [11] BS 1377 : Part 2 : 1990, Test No 9

[12] BS 1377 : Part 3 : 1990, Test No 5.6
 [13] SO₄ = 1.2 x SO₃
 [14] BRE Special Digest One (Concrete in Aggressive Ground) 2005

Note that if the SO₄ content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4m or DS-5m class respectively unless water soluble magnesium testing is undertaken to prove otherwise

Key
D - Disturbed sample
B - Bulk sample
U - U100 (undisturbed sample)
W - Water sample
ENP - Essentially Non-Plastic
US - Underside Foundation

Comments :-

Technician :- MW
 Checked & Authorised By:- Martin Edwards- Chelmer Global Company Director
 Date Checked :- 08/06/2020

Laboratory Testing Results

BS 1377 : 1990



Job Number : 11384
 Client : Gary Sugarman
 Client Reference : CSI/11384
 Site Name : Garages @ Parsifal, Finchley Road, London, NW3 7BT

Date Received : 26/05/2020
 Date Testing Started : 26/05/2020
 Date Testing Completed : 05/06/2020
 Laboratory Used : Chelmer Geotechnical, CM3 8AB

Sample Ref			Sample Type	*Moisture Content (%) [1]	*Soil Fraction > 0.425mm (%) [2]	*Liquid Limit (%) [3]	*Plastic Limit (%) [4]	*Plasticity Index (%) [5]	*Liquidity Index (%) [5]	*Modified Plasticity Index (%) [6]	*Soil Class [7]	Filter Paper Contact Time (h) [8]	*Soil Sample Suction (kPa)	Insitu Shear Vane Strength (kPa) [9]	Organic Content (%) [10]	*pH Value [11]	*Sulphate Content (g/l)		
BH/TP/W/S	Depth (m)	UID															SO ₃ [12]	SO ₄ [13]	Class [14]
TP3	0.8		D	31	<5	71	31	40	-0.01	38	CV			79					

Notes :- *UKAS Accredited Tests

[1] BS 1377 : Part 2 : 1990, Test No 3.2 [7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils [12] BS 1377 : Part 3 : 1990, Test No 5.6

[2] Estimated if <5%, otherwise measured [8] In-house method S9a adapted from BRE IP 4/93 [13] SO₄ = 1.2 x SO₃

[3] BS 1377 : Part 2 : 1990, Test No 4.4 [9] Values of shear strength were determined in situ by Chelmer Global using a Pilcon hand vane or Geonor vane (GV). [14] BRE Special Digest One (Concrete in Aggressive Ground) 2005

[4] BS 1377 : Part 2 : 1990, Test No 5.3

[5] BS 1377 : Part 2 : 1990, Test No 5.4 [10] BS 1377 : Part 3 : 1990, Test No 4

[6] BRE Digest 240 : 1993 [11] BS 1377 : Part 2 : 1990, Test No 9

Note that if the SO₄ content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4m or DS-5m class respectively unless water soluble magnesium testing is undertaken to prove otherwise

Key
D - Disturbed sample
B - Bulk sample
U - U100 (undisturbed sample)
W - Water sample
ENP - Essentially Non-Plastic
U/S - Underside Foundation

Comments :-

Technician :- MW Checked & Authorised By:- Martin Edwards- Chelmer Global Company Director Date Checked :- 08/06/2020

Laboratory Testing Results

BS 1377 : 1990



Job Number : 11384
 Client : Gary Sugarman
 Client Reference : CSI/11384
 Site Name : Garages @ Parsifal, Finchley Road, London, NW3 7BT

Date Received : 26/05/2020
 Date Testing Started : 26/05/2020
 Date Testing Completed : 05/06/2020
 Laboratory Used : Chelmer Geotechnical, CM3 8AB

Sample Ref			Sample Type	*Moisture Content (%) [1]	*Soil Fraction > 0.425mm (%) [2]	*Liquid Limit (%) [3]	*Plastic Limit (%) [4]	*Plasticity Index (%) [5]	*Liquidity Index (%) [5]	*Modified Plasticity Index (%) [6]	*Soil Class [7]	Filter Paper Contact Time (h) [8]	*Soil Sample Suction (kPa)	Insitu Shear Vane Strength (kPa) [9]	Organic Content (%) [10]	*pH Value [11]	*Sulphate Content (g/l)		
BH/TP/WS	Depth (m)	UID															SO ₃ [12]	SO ₄ [13]	Class [14]
TP4	1.0		D	37	<5	74	31	43	0.13	41	CV			77					

Notes :- *UKAS Accredited Tests

[1] BS 1377 : Part 2 : 1990, Test No 3.2
 [2] Estimated if <5%, otherwise measured
 [3] BS 1377 : Part 2 : 1990, Test No 4.4
 [4] BS 1377 : Part 2 : 1990, Test No 5.3
 [5] BS 1377 : Part 2 : 1990, Test No 5.4
 [6] BRE Digest 240 : 1993

[7] BS 5930 : 1981 : Figure 31 - Plasticity Chart for the classification of fine soils
 [8] In-house method S9a adapted from BRE IP 4/93
 [9] Values of shear strength were determined in situ by Chelmer Global using a Pilcon hand vane or Geonor vane (GV).
 [10] BS 1377 : Part 3 : 1990, Test No 4
 [11] BS 1377 : Part 2 : 1990, Test No 9

[12] BS 1377 : Part 3 : 1990, Test No 5.6
 [13] SO₄ = 1.2 x SO₃
 [14] BRE Special Digest One (Concrete in Aggressive Ground) 2005

Note that if the SO₄ content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4m or DS-5m class respectively unless water soluble magnesium testing is undertaken to prove otherwise

Key
D - Disturbed sample
B - Bulk sample
U - U100 (undisturbed sample)
W - Water sample
ENP - Essentially Non-Plastic
U/S - Underside Foundation

Comments :-

Technician :- MW
 Checked & Authorised By:- Martin Edwards- Chelmer Global Company Director
 Date Checked :- 08/06/2020

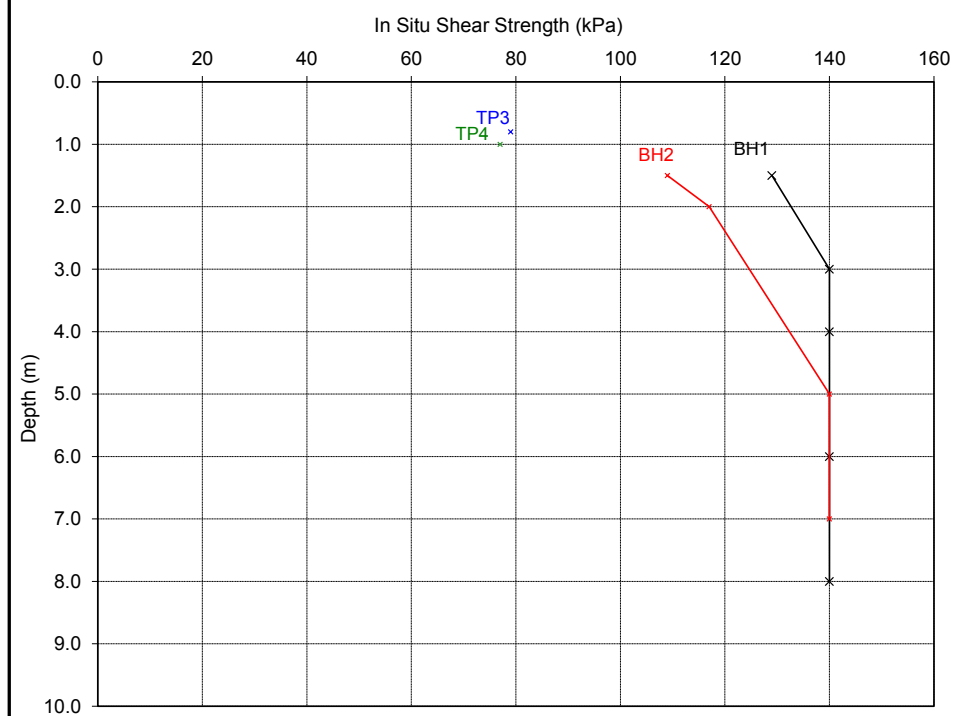
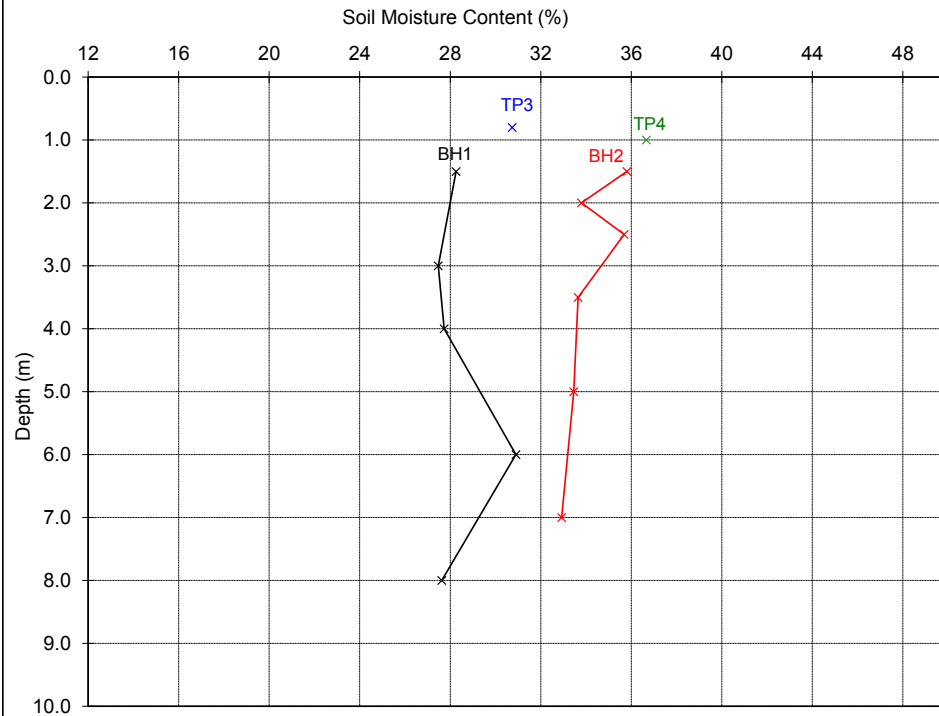
Laboratory Testing Results

Moisture Content/Shear Strength Profile



Job Number : 11384
 Client : Gary Sugarman
 Client Reference : CSI/11384
 Site Name : Garages @ Parsifal, Finchley Road, London, NW3 7BT

Date Received : 26/05/2020
 Date Testing Started : 26/05/2020
 Date Testing Completed : 05/06/2020
 Laboratory : Chelmer Geotechnical Laboratories, CM3 8AB



Notes :-

1. If the Soil Fraction > 0.425mm exceeds 5% the Equivalent Moisture Content of the remainder (calculated in accordance with BS 1377: Part 2 : 1990, cl.3.2.4 note 1) is also plotted and the alternative profile additionally shown as an appropriately coloured broken line.
2. If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly over consolidated clays) at shallow depths.

Unless otherwise stated, values of Shear Strength were determined in situ by Chelmer Global Ltd using a Picon Hand Vane the calibration of which is limited to a maximum reading of 140 kPa. (Not UKAS accredited)

Comments :-

Checked & Authorised By:-  Martin Edwards- Chelmer Global Company Director

Date: 08/06/2020

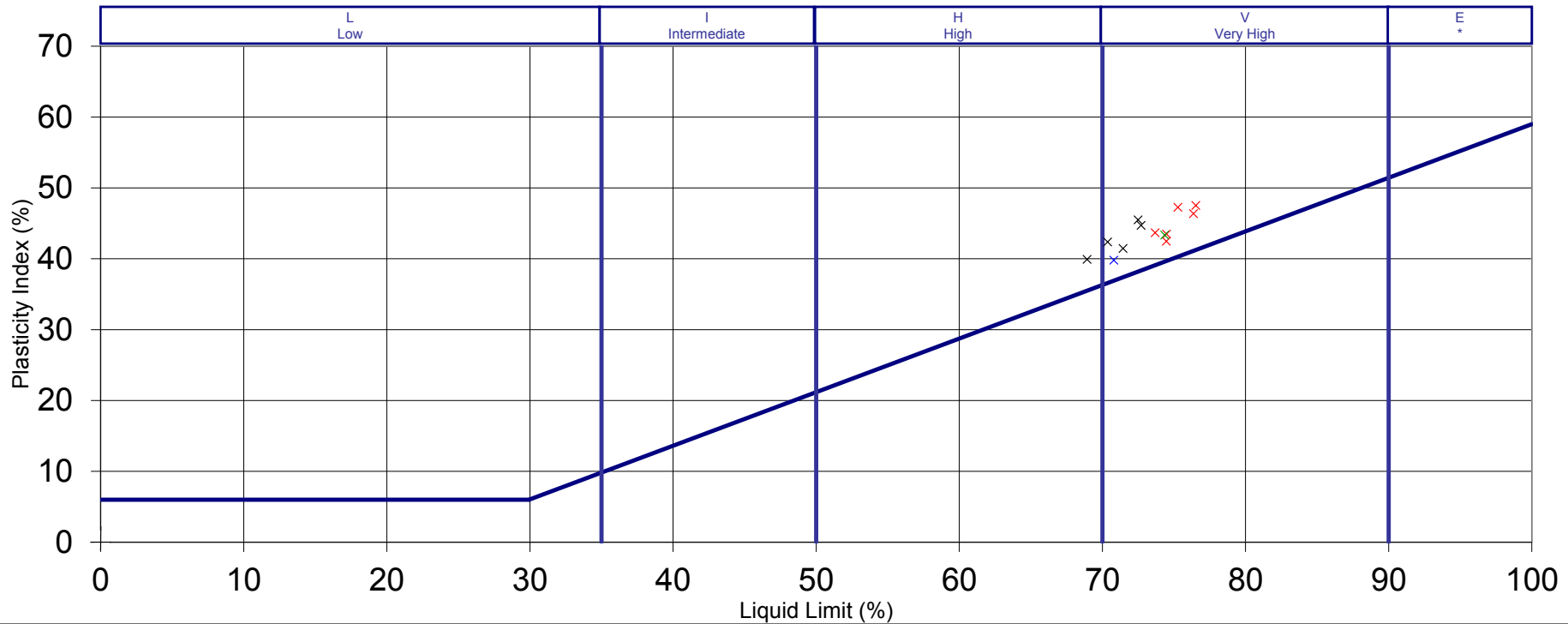
Laboratory Testing Results

Plasticity Chart for the classification of fine soils and the finer part of coarse soils
In Compliance with BS5930 : 1999



Job Number : 11384
Client : Gary Sugarman
Client Reference : CSI/11384
Site Name : Garages @ Parsifal, Finchley Road, London, NW3 7BT

Date Received : 26/05/2020
Date Testing Started : 26/05/2020
Date Testing Completed : 05/06/2020
Laboratory : Chelmer Geotechnical Laboratories, CM3 8AB



Notes :-
SILT (M-SOIL), M, plots below A-Line
CLAY, C, plots above A-Line }M and C may be combined as FINE SOIL, F.

Key :- BH1
BH2
TP3
TP4

Comments :-

Checked & Authorised By:-  Martin Edwards- Chelmer Global Company Director

Date: 08/06/2020



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This report shall not be reproduced, except in full, without the written approval of Chelmer Global Ltd.

Where our involvement consists exclusively of testing samples, the results and comments (if provided) relate only to the samples tested.

Any samples that are deemed to be subject to deviation will be recorded as such within the test summary.



Landborne Gas Assessment

Site Ref: 11384

Site Name: Garages @ Parsifal, 521 Finchley Road, London

Well	Date	Methane Peak	Methane Steady	Methane GSV	Carbon Dioxide Peak	Carbon Dioxide Steady	Carbon Dioxide GSV	Oxygen	Atmos.	Flow	Response Zone	Depth to Water	CO	H2S	VOC	
		%v/v	%v/v	l/hr	%v/v	%v/v	l/hr	%v/v	mbar	l/hr	m bgl	m bgl	ppm	ppm	ppm	
BH2				0.0000			0.0000				1.0-8.0					
				0.0000			0.0000									
	03/06/2020	0.5	0.5	0.0020	4.7	4.7	0.0188	17.4	1000	0.4		6.62	2	0	12.6	
	10/06/2020	0.5	0.5	0.0020	2.7	2.0	0.0108	19.4	1007	0.4		6.00	1	0	2.6	
				0.0000			0.0000									
				0.0000			0.0000									
BH1				0.0000			0.0000				1.0-8.0					
				0.0000			0.0000									
	03/06/2020	4.6	4.6	0.0184	4.6	4.6	0.0184	13.8	999	0.4		dry	1	0	6.6	
	10/06/2020	0.5	0.5	0.0030	3.8	3.8	0.0228	14.5	1007	0.6		dry	1	0	4.4	
				0.0000			0.0000									
				0.0000			0.0000									

Notes

NR = Not Recorded

Values in Red exceed CIRIA 665 criteria (CO₂ >5.0% and CH₄ >1.0%)



Martin Edwards
Chelmer Global Ltd
Unit 7 and 8 Hall Road Industrial E
Hall Road
Southminster
Essex
CM0 7DA

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxy Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

e: medwards@chelmerglobal.co.uk

Analytical Report Number : 20-11532

Replaces Analytical Report Number : 20-11532, issue no. 1

Additional analysis undertaken.

Project / Site name:	Garages Parsifal behind 521 Finchley Road NW3	Samples received on:	28/05/2020
Your job number:	11384	Sample instructed/ Analysis started on:	28/05/2020
Your order number:		Analysis completed by:	05/08/2020
Report Issue Number:	2	Report issued on:	07/08/2020
Samples Analysed:	9 soil samples		

Signed:

Joanna Wawrzeczko
Technical Reviewer (Reporting Team)

For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.

Iss No 20-11532-2 Garages Parsifal behind 521 Finchley Road NW3 11384.XLS

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The results included within the report relate only to the sample(s) submitted for testing.

Page 1 of 8

Analytical Report Number: 20-11532

Project / Site name: Garages Parsifal behind 521 Finchley Road NW3

Lab Sample Number	1520080			1520081			1520082			1520083			1520084		
Sample Reference	TP2			TP3			TP4			TP5			TP5		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.25			0.25			0.25			0.25			0.50		
Date Sampled	21/05/2020			21/05/2020			21/05/2020			21/05/2020			21/05/2020		
Time Taken	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status												
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Moisture Content	%	N/A	NONE	18	16	2.5	20	22							
Total mass of sample received	kg	0.001	NONE	1.5	1.0	1.6	1.5	0.50							

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025	Chrysotile	-	-	-	-
Asbestos in Soil	Type	N/A	ISO 17025	Detected	Not-detected	Not-detected	Not-detected	-
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	< 0.001	-	-	-	-
Asbestos Quantification Total	%	0.001	ISO 17025	< 0.001	-	-	-	-

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	9.8	8.5	7.9	8.9	-
Free Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	-
Organic Matter	%	0.1	MCERTS	3.3	4.9	9.5	3.7	-

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.34	< 0.05	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.57	< 0.05	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	1.8	5.6	1.5	0.50	-
Anthracene	mg/kg	0.05	MCERTS	0.30	1.1	0.28	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	2.8	7.3	4.0	1.2	-
Pyrene	mg/kg	0.05	MCERTS	2.3	6.1	3.6	1.1	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.5	3.6	2.6	0.75	-
Chrysene	mg/kg	0.05	MCERTS	1.3	2.7	2.3	0.60	-
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	1.8	4.6	4.0	0.86	-
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.67	1.5	0.91	0.31	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	1.4	3.5	2.7	0.75	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.84	1.9	1.5	0.48	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.26	0.48	0.41	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.95	2.2	1.7	0.53	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	16.0	41.4	25.4	7.06	-
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	29	28	40	21	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.7	0.6	0.8	< 0.2	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	33	37	43	33	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	98	88	190	68	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	1100	410	2500	560	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	2.2	1.5	2.1	1.9	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	29	28	40	22	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	640	380	1200	170	-

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Lab Sample Number	1520080			1520081			1520082			1520083			1520084		
Sample Reference	TP2			TP3			TP4			TP5			TP5		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.25			0.25			0.25			0.25			0.50		
Date Sampled	21/05/2020			21/05/2020			21/05/2020			21/05/2020			21/05/2020		
Time Taken	None Supplied			None Supplied			None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status												

Monoaromatics & Oxygenates

Compound	Units	Limit of detection	Accreditation Status	1520080	1520081	1520082	1520083	1520084
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-

Petroleum Hydrocarbons

Compound	Units	Limit of detection	Accreditation Status	1520080	1520081	1520082	1520083	1520084
TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	-
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	-
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	-
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	-
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	-
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	32	< 8.0	< 8.0	< 8.0	-
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	32	< 10	< 10	< 10	-

Compound	Units	Limit of detection	Accreditation Status	1520080	1520081	1520082	1520083	1520084
TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	-
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	-
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	-
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	-
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	6.4	< 2.0	< 2.0	-
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	25	15	< 10	-
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	26	34	30	14	-
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	34	66	45	22	-

PCBs by GC-MS

Compound	Units	Limit of detection	Accreditation Status	1520080	1520081	1520082	1520083	1520084
PCB Congener 28	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
PCB Congener 52	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
PCB Congener 101	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
PCB Congener 138	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
PCB Congener 153	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001
PCB Congener 180	mg/kg	0.001	MCERTS	-	-	-	-	< 0.001

Total PCBs by GC-MS

Compound	Units	Limit of detection	Accreditation Status	1520080	1520081	1520082	1520083	1520084
Total PCBs	mg/kg	0.007	MCERTS	-	-	-	-	< 0.007

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Project / Site name: Garages Parsifal behind 521 Finchley Road NW3

Lab Sample Number	1520085			1520086			1520087			1520088		
Sample Reference	TP6			BH1			BH2			BH2		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.25			0.25			0.25			0.50		
Date Sampled	21/05/2020			21/05/2020			21/05/2020			21/05/2020		
Time Taken	None Supplied			None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									
Stone Content	%	0.1	NONE	< 0.1	-	-	-	< 0.1				
Moisture Content	%	N/A	NONE	10	-	-	-	21				
Total mass of sample received	kg	0.001	NONE	1.5	-	-	-	1.0				

Asbestos in Soil Screen / Identification Name	Type	N/A	ISO 17025						
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	-		
Asbestos Quantification (Stage 2)	%	0.001	ISO 17025	-	-	-	-		
Asbestos Quantification Total	%	0.001	ISO 17025	-	-	-	-		

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	11.0	-	-	9.3
Free Cyanide	mg/kg	1	MCERTS	< 1	-	-	< 1
Organic Matter	%	0.1	MCERTS	2.2	-	-	4.2

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.27	-	-	0.74
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	0.18
Fluoranthene	mg/kg	0.05	MCERTS	0.60	-	-	2.1
Pyrene	mg/kg	0.05	MCERTS	0.53	-	-	1.9
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.37	-	-	1.5
Chrysene	mg/kg	0.05	MCERTS	0.33	-	-	1.4
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.51	-	-	1.9
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.27	-	-	1.1
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.38	-	-	1.8
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.25	-	-	1.0
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	0.25
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.28	-	-	1.2

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	3.79	-	-	15.0
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	-	-	53
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	-	1.0
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	46	-	-	34
Copper (aqua regia extractable)	mg/kg	1	MCERTS	42	-	-	75
Lead (aqua regia extractable)	mg/kg	1	MCERTS	720	-	-	880
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.9	-	-	1.6
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	18	-	-	25
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	280	-	-	730

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Project / Site name: Garages Parsifal behind 521 Finchley Road NW3

Lab Sample Number	1520085			1520086			1520087			1520088		
Sample Reference	TP6			BH1			BH2			BH2		
Sample Number	None Supplied			None Supplied			None Supplied			None Supplied		
Depth (m)	0.25			0.25			0.25			0.50		
Date Sampled	21/05/2020			21/05/2020			21/05/2020			21/05/2020		
Time Taken	None Supplied			None Supplied			None Supplied			None Supplied		
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status									
Monoaromatics & Oxygenates												
Benzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	-	-	-	< 1.0				

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	
TPH-CWG - Aliphatic >EC6 - EC8	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	
TPH-CWG - Aliphatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	
TPH-CWG - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	
TPH-CWG - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	-	-	< 2.0	
TPH-CWG - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	-	-	< 8.0	
TPH-CWG - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	-	-	< 8.0	
TPH-CWG - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	-	-	< 10	

TPH-CWG - Aromatic >EC5 - EC7	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	
TPH-CWG - Aromatic >EC7 - EC8	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	
TPH-CWG - Aromatic >EC8 - EC10	mg/kg	0.001	MCERTS	< 0.001	-	-	< 0.001	
TPH-CWG - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	
TPH-CWG - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	-	-	< 2.0	
TPH-CWG - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	-	-	< 10	
TPH-CWG - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	-	-	15	
TPH-CWG - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	-	-	22	

PCBs by GC-MS

PCB Congener 28	mg/kg	0.001	MCERTS	-	-	-	-	
PCB Congener 52	mg/kg	0.001	MCERTS	-	-	-	-	
PCB Congener 101	mg/kg	0.001	MCERTS	-	-	-	-	
PCB Congener 118	mg/kg	0.001	MCERTS	-	-	-	-	
PCB Congener 138	mg/kg	0.001	MCERTS	-	-	-	-	
PCB Congener 153	mg/kg	0.001	MCERTS	-	-	-	-	
PCB Congener 180	mg/kg	0.001	MCERTS	-	-	-	-	

Total PCBs by GC-MS

Total PCBs	mg/kg	0.007	MCERTS	-	-	-	-	
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Analytical Report Number: 20-11532
Project / Site name: Garages Parsifal behind 521 Finchley Road NW3
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006-PL based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample
1520080	TP2	0.25	132	Loose Fibres	Chrysotile	< 0.001	< 0.001

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.



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* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
1520080	TP2	None Supplied	0.25	Brown loam and clay with gravel.
1520081	TP3	None Supplied	0.25	Brown loam and clay with gravel.
1520082	TP4	None Supplied	0.25	Brown loam and clay with gravel.
1520083	TP5	None Supplied	0.25	Brown loam and clay with gravel.
1520084	TP5	None Supplied	0.50	Brown loam and clay with gravel.
1520085	TP6	None Supplied	0.25	Brown loam and clay with gravel.
1520086	BH1	None Supplied	0.25	-
1520087	BH2	None Supplied	0.25	-
1520088	BH2	None Supplied	0.50	Brown clay with gravel.

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Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Water (PrW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references.	HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).	A006-PL	D	ISO 17025
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
PCB's By GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.



REPORT NOTES

Equipment Used

Hand tools, Mechanical Concrete Breaker and Spade, Hand Augers, 100mm/150mm diameter Mechanical Flight Auger Rig, GEO205 Flight Auger Rig, Window Sampling Rig, and Large or Limited Access Shell & Auger Rig upon request and/or access permitting.

On Site Tests

By Pilcon Shear-Vane Tester (kN/m) in clay soils, and/or Mackintosh Probe in granular soils or made ground and/or upon request Continuous Dynamic Probe Testing and Standard Penetration Testing.

Note:

Details reported in trial-pits and boreholes relate to positions investigated only as instructed by the client or engineer on the date shown.

We are therefore unable to accept any responsibility for changes in soil conditions not investigated i.e. variations due to climate, season, vegetation and varying ground water levels.

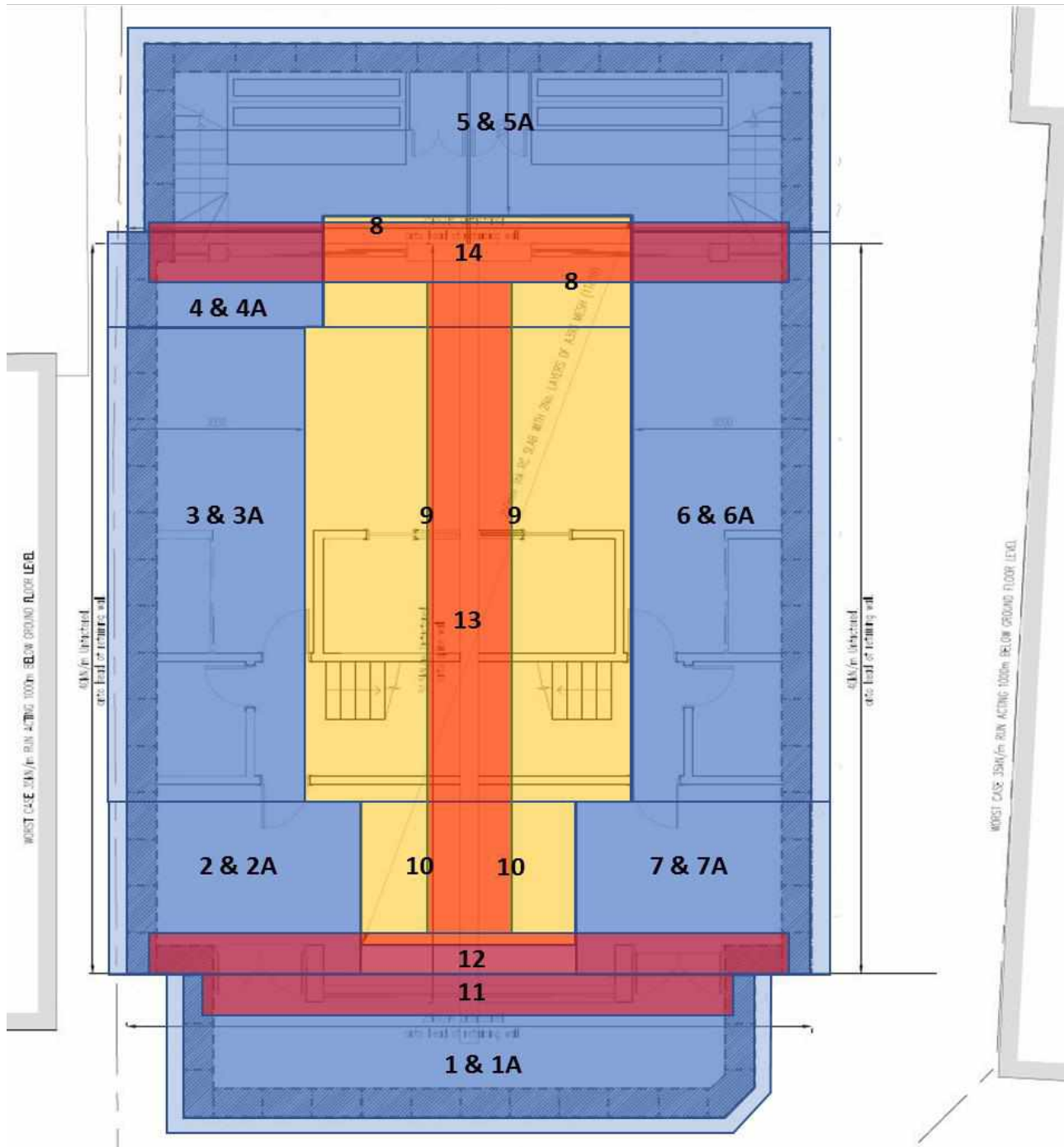
Full terms and conditions are available upon request.

Appendix G

Project:

**Parsifal Road Garages, London, NW6 1UG
behind 521 Finchley Road, London, NW3 7BT**

20813



Key:

- Light blue zones = excavation & self-weight of retaining walls bases (only), and application of loads on soils.
- Mid blue zones = excavation, self-weight of retaining wall stem and, where relevant, applied loads.
- Yellow zones = excavation and basement slab.
- Red zones = superimposed loads added in Stage 3, after completion of basement slab.

Notes: 1. Base drawing is extract from 'Basement Plan ...' (Mitchinson Macken Drg No.19313/102 Rev.A)

Title: **Layout of Zones used for PDISP Analyses**

Figure: **G1**

Date: August 2020

Checked: KRG

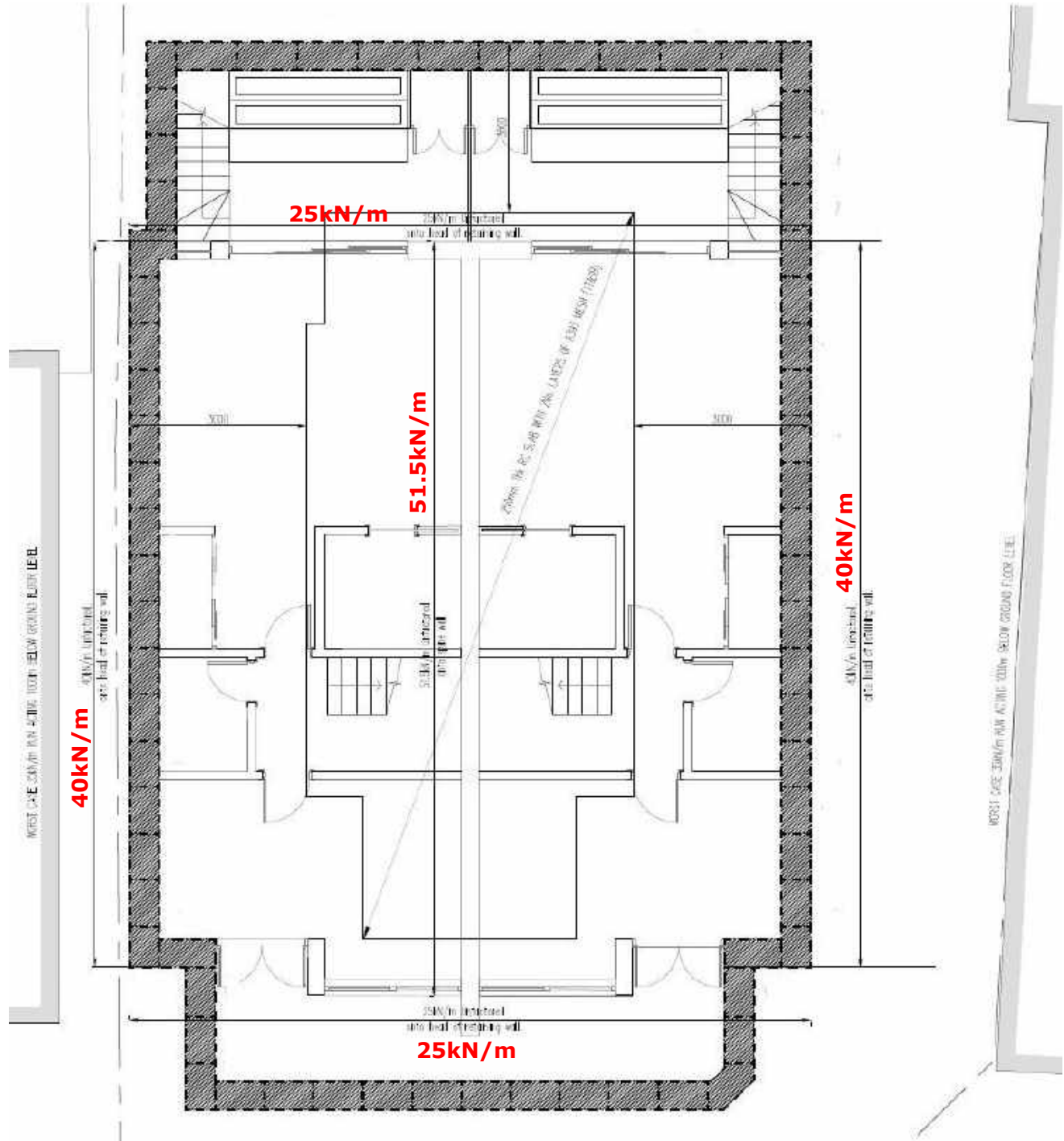
Approved: KRG

Scale: NTS

Project:

**Parsifal Road Garages, London, NW6 1UG
behind 521 Finchley Road, London, NW3 7BT**

19715



Notes:

1. Extract from 'Basement Plan - Showing Foundation Layout' (Mitchinson Macken Drg No.19313/102 Rev.A)
2. Labels in red reproduce the load values (added for clarity).

Title: Load takedown provided by Mitchinson Macken

Figure: G2

Date: August 2020

Checked: KRG

Approved: KRG

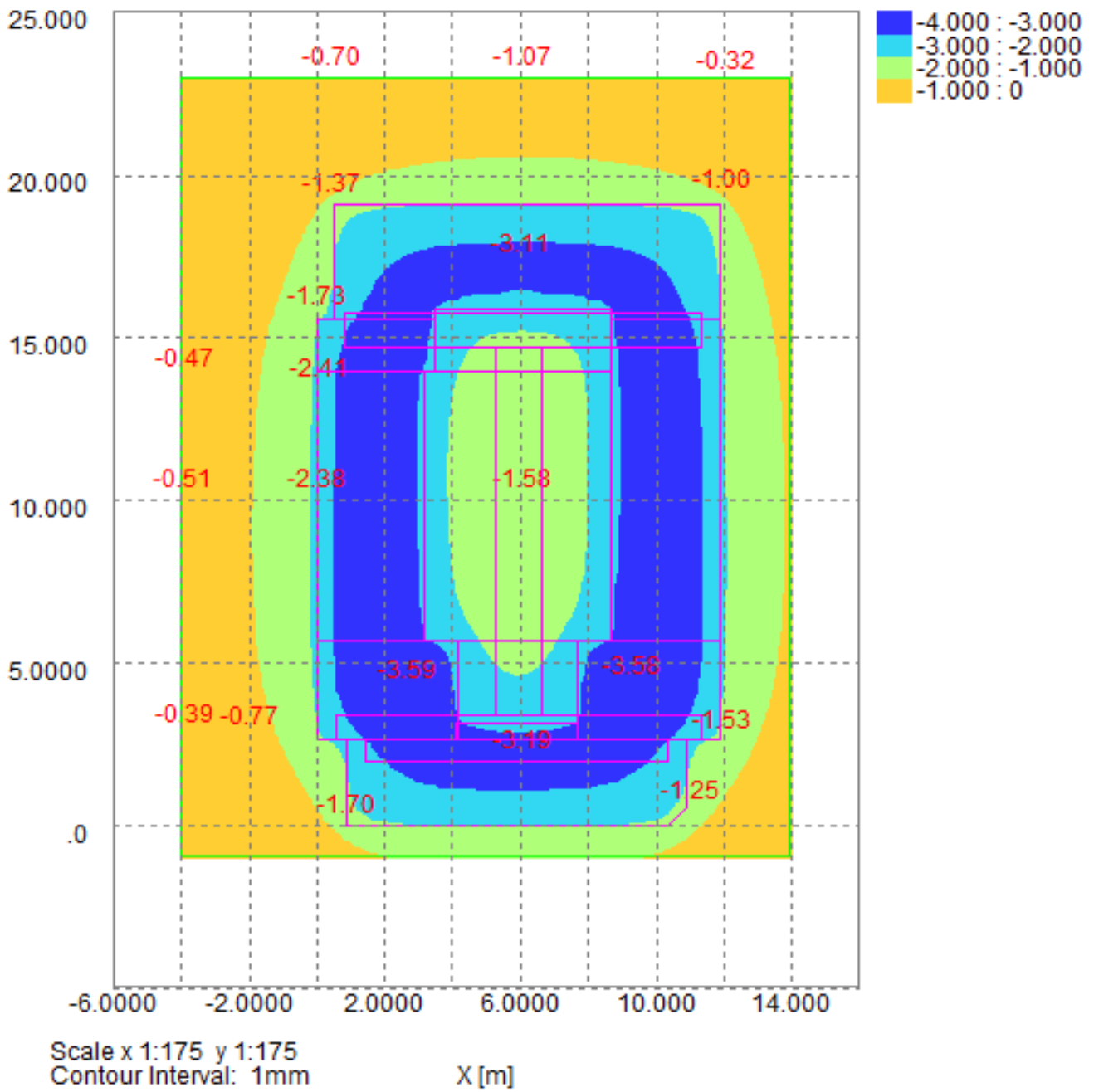
Scale: NTS

Project:

**Parsifal Road Garages, London, NW6 1UG
behind 521 Finchley Road, London, NW3 7BT**

20813

Settlement Contours : Grid 1 at 71.0500m



Title: **PDISP Output - Contour Plot for Stage 1**

Figure: **G3**

Date: August 2020

Checked: KRG

Approved: KRG

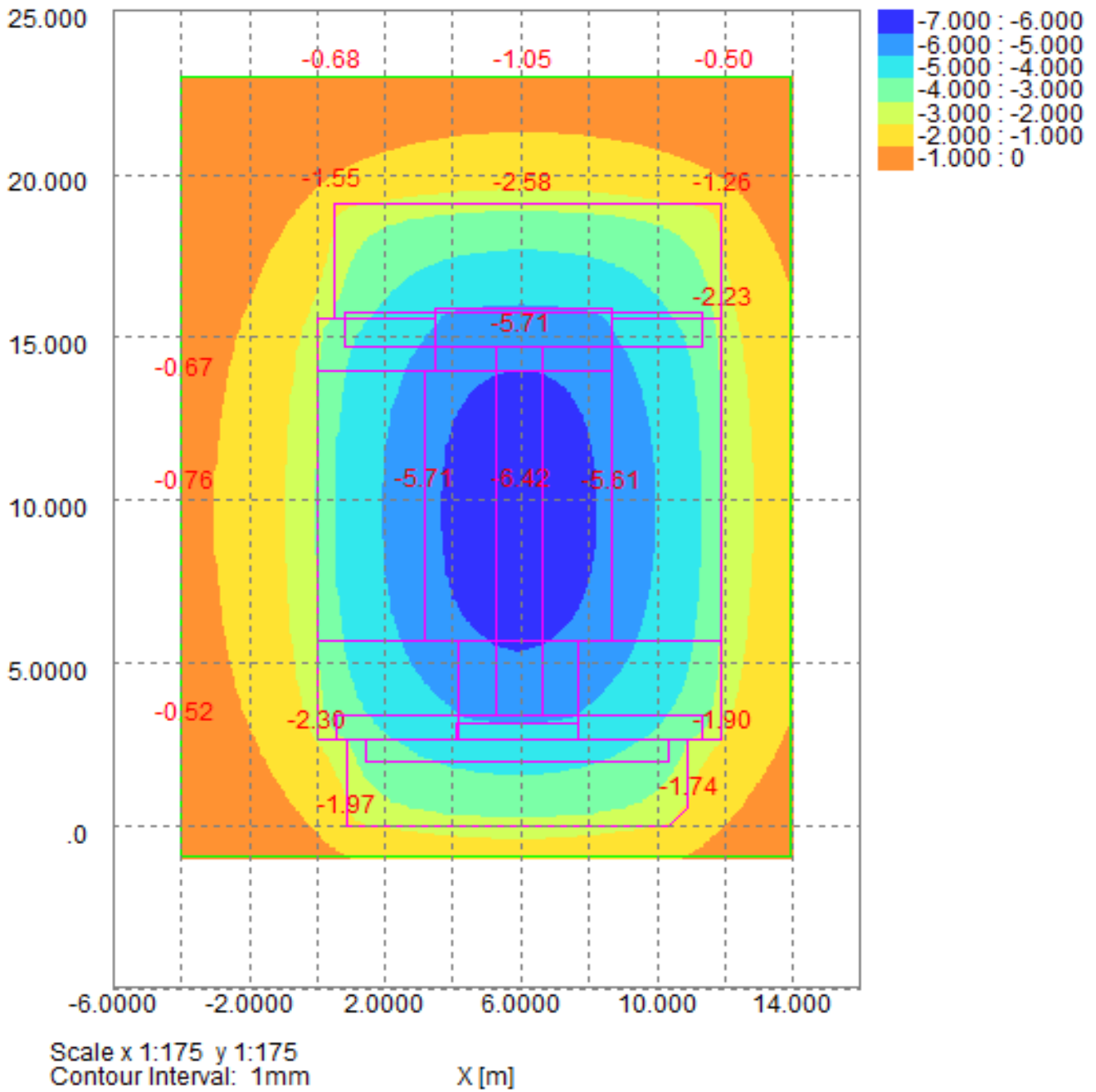
Scale: NTS

Project:

**Parsifal Road Garages, London, NW6 1UG
behind 521 Finchley Road, London, NW3 7BT**

20813

Settlement Contours : Grid 1 at 71.0500m



Title: PDISP Output - Contour Plot for Stage 2

Figure: G4

Date: August 2020

Checked: KRG

Approved: KRG

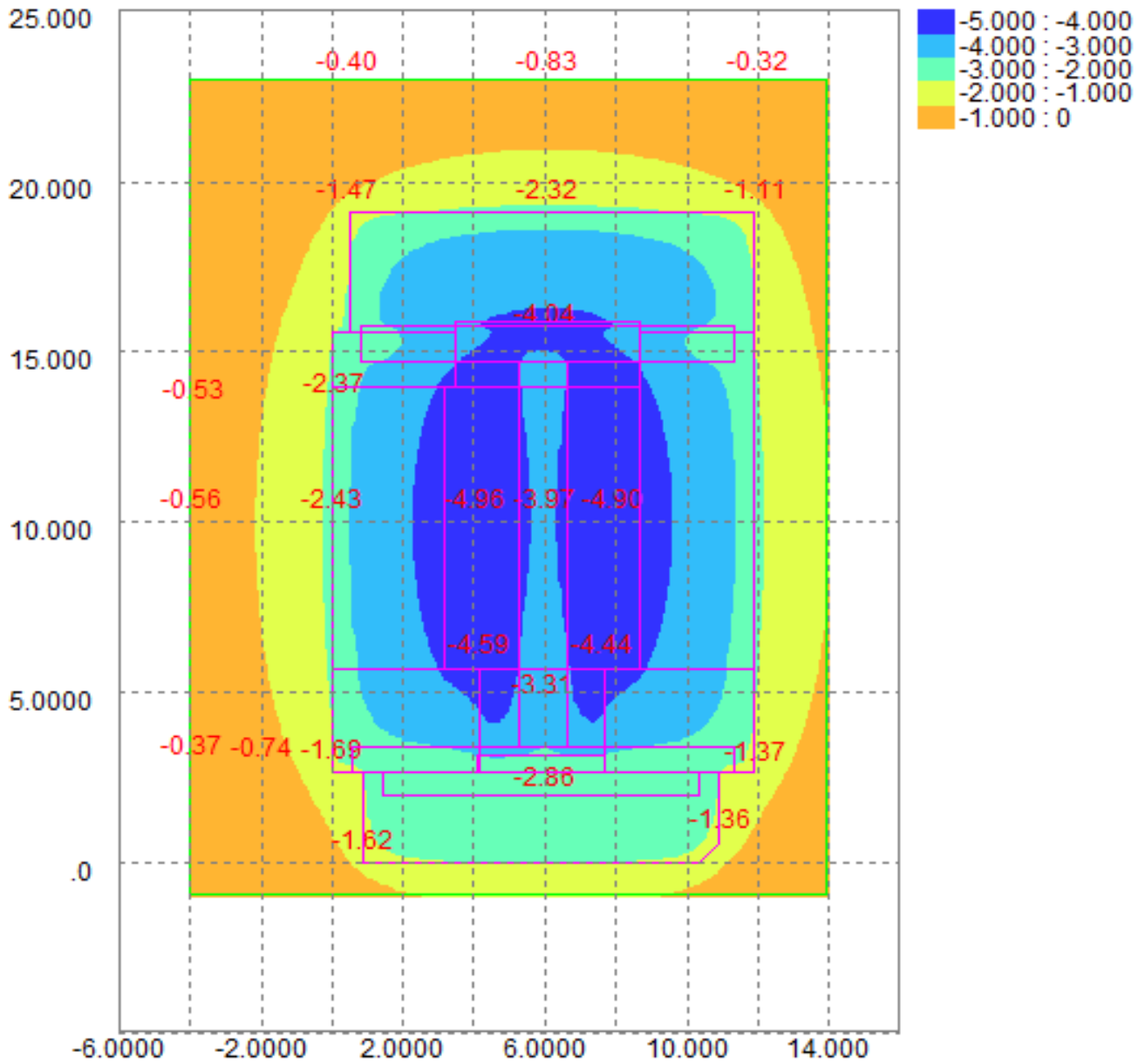
Scale: NTS

Project:

**Parsifal Road Garages, London, NW6 1UG
behind 521 Finchley Road, London, NW3 7BT**

20813

Settlement Contours : Grid 1 at 71.0500m



Scale x 1:175 y 1:175
Contour Interval: 1mm

X [m]

Title: **PDISP Output - Contour Plot for Stage 3**

Figure: **G5**

Date: August 2020

Checked: KRG

Approved: KRG

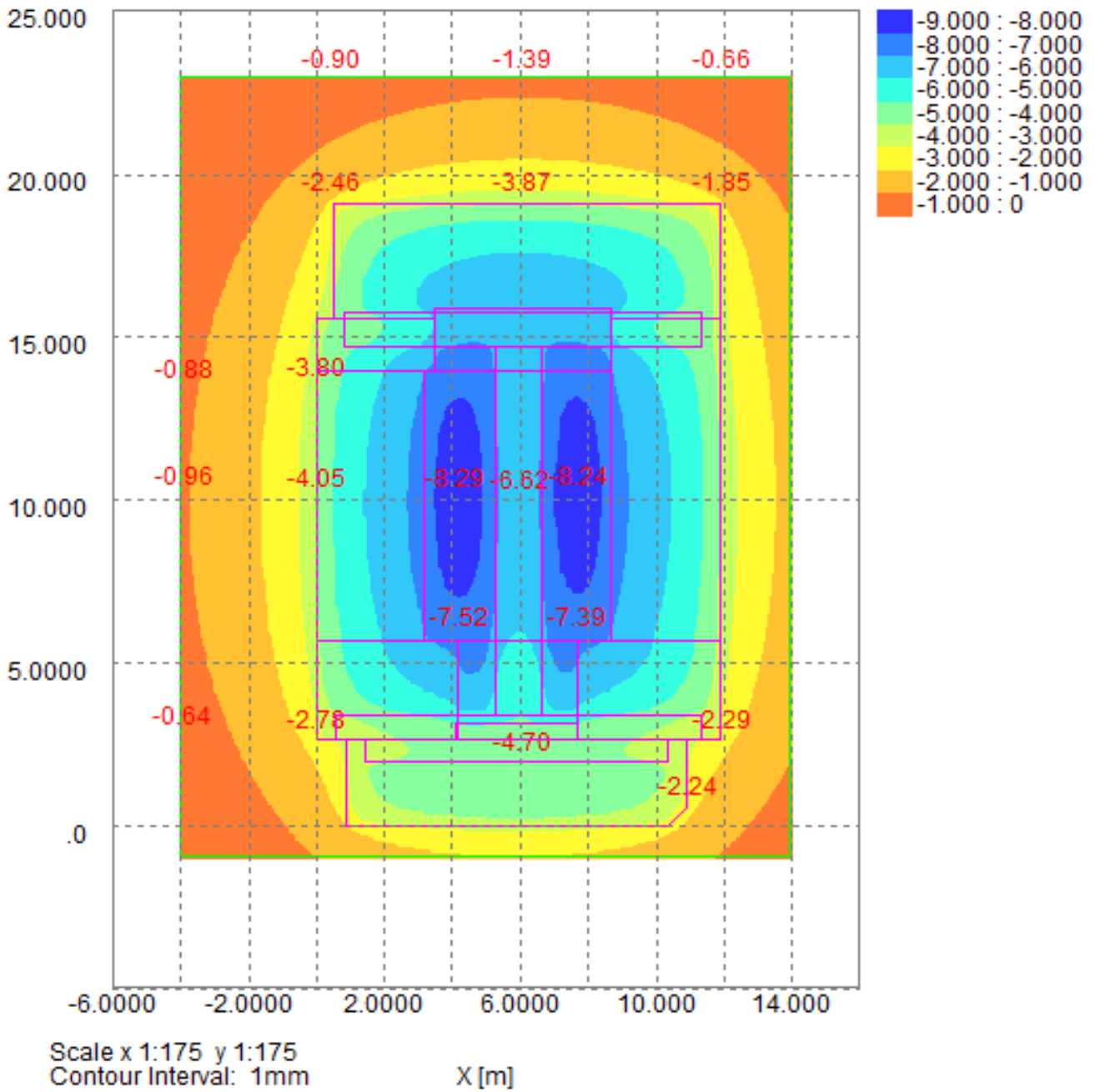
Scale: NTS

Project:

**Parsifal Road Garages, London, NW6 1UG
behind 521 Finchley Road, London, NW3 7BT**

20813

Settlement Contours : Grid 1 at 71.0500m



Title: PDISP Output - Contour Plot for Stage 4

Figure: G6

Date: August 2020

Checked: KRG

Approved: KRG

Scale: NTS