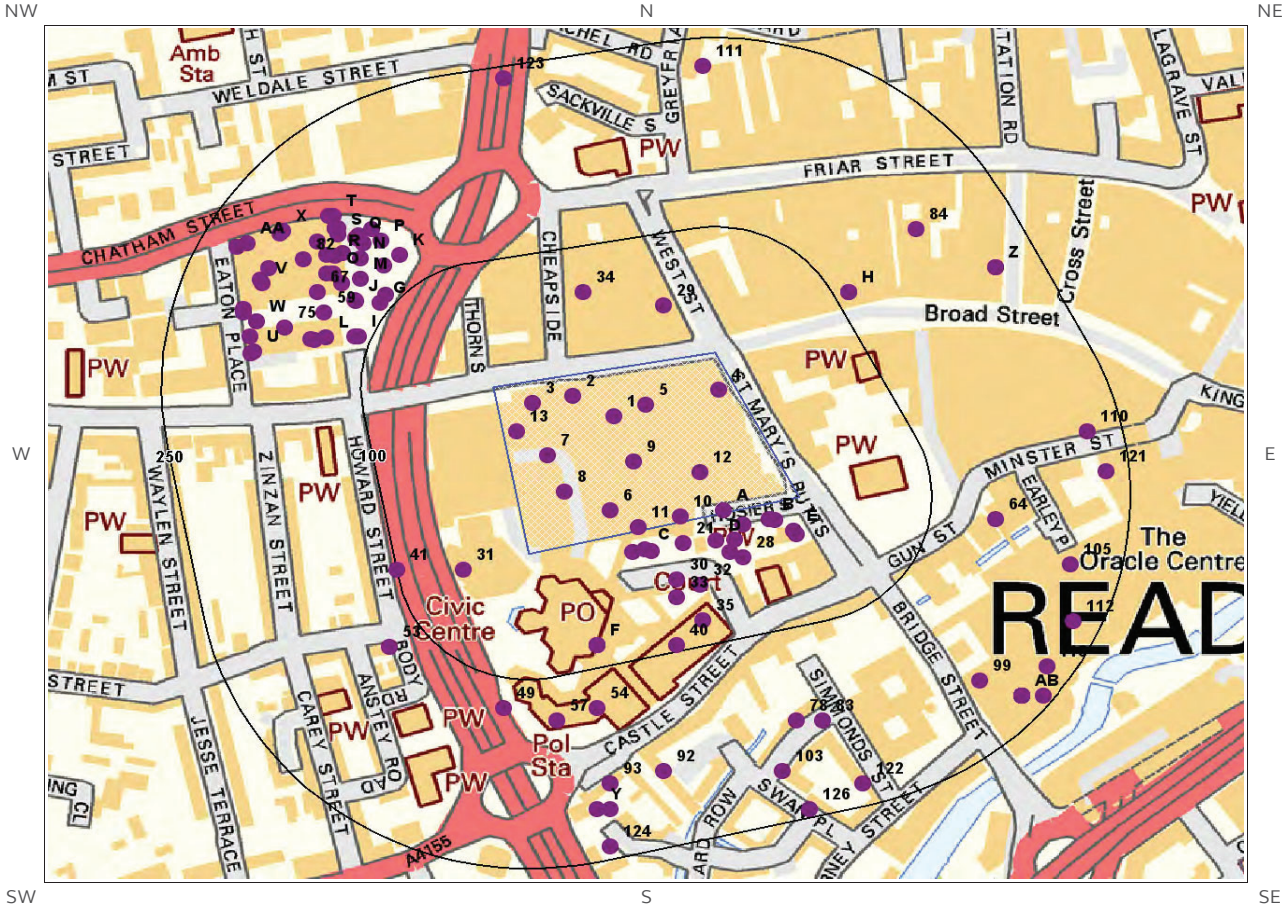


7 Borehole Records map



Borehole Records Legend

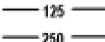
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Site Outline



Borehole Locations



Search Buffers (m)

7 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary: 126

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
1	0.0	On Site	471213 173382	SU77SW867	9.0	READING COMMERCIAL CENTRE 4
2	0.0	On Site	471182 173398	SU77SW866	9.0	READING COMMERCIAL CENTRE 3
3	0.0	On Site	471152 173392	SU77SW864	15.0	READING COMMERCIAL CENTRE 1
4	0.0	On Site	471292 173403	SU77SW872	7.0	READING COMMERCIAL CENTRE 9
5	0.0	On Site	471237 173391	SU77SW871	9.0	READING COMMERCIAL CENTRE 8
6	0.0	On Site	471210 173307	SU77SW869	9.0	READING COMMERCIAL CENTRE 6
7	0.0	On Site	471163 173351	SU77SW865	5.0	READING COMMERCIAL CENTRE 2
8	0.0	On Site	471176 173322	SU77SW868	5.0	READING COMMERCIAL CENTRE 5/5A
9	0.0	On Site	471228 173346	SU77SW870	8.0	READING COMMERCIAL CENTRE 7
10	0.0	On Site	471263 173302	SU77SW1150	-1.0	READING CIVIC CENTRE WS112
11	0.0	On Site	471231 173294	SU77SW1149	-1.0	READING CIVIC CENTRE WS111
12	0.0	On Site	471278 173337	SU77SW873	9.0	READING COMMERCIAL CENTRE 10
13	0.0	On Site	471140 173370	SU77SW690	18.0	READING CIVIC CENTRE BH1
14A	0.0	On Site	471295 173307	SU77SW1151	-1.0	READING CIVIC CENTRE WS113
15A	12.0	S	471310 173296	SU77SW1143	-1.0	READING CIVIC CENTRE TP104
16B	13.0	S	471330 173300	SU77SW1135	-1.0	READING CIVIC CENTRE 103
17B	13.0	S	471330 173300	SU77SW1136	-1.0	READING CIVIC CENTRE 104
18B	15.0	S	471334 173299	SU77SW1148	-1.0	READING CIVIC CENTRE WS105
19C	16.0	S	471236 173276	SU77SW1133	-1.0	READING CIVIC CENTRE 101
20C	16.0	S	471227 173274	SU77SW1147	-1.0	READING CIVIC CENTRE TP110
21	17.0	S	471265 173281	SU77SW1140	-1.0	READING CIVIC CENTRE TP101
22C	18.0	S	471241 173275	SU77SW1141	-1.0	READING CIVIC CENTRE TP102

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
23D	21.0	S	471290 173283	SU77SW1142	-1.0	READING CIVIC CENTRE TP103
24D	23.0	S	471304 173284	SU77SW1134	-1.0	READING CIVIC CENTRE 102
25E	25.0	S	471348 173291	SU77SW1138	-1.0	READING CIVIC CENTRE 107
26E	29.0	S	471350 173288	SU77SW1137	-1.0	READING CIVIC CENTRE 106
27D	32.0	S	471300 173274	SU77SW1144	-1.0	READING CIVIC CENTRE TP105
28	38.0	S	471310 173270	SU77SW693	18.0	READING CIVIC CENTRE BH4
29	43.0	N	471250 173470	SU77SW668	9.0	WEST STREET READING
30	45.0	S	471260 173252	SU77SW1145	-1.0	READING CIVIC CENTRE TP106
31	51.0	W	471100 173260	SU77SW691	18.0	READING CIVIC CENTRE BH2
32	52.0	S	471278 173248	SU77SW1146	-1.0	READING CIVIC CENTRE TP107
33	58.0	S	471260 173238	SU77SW1139	-1.0	READING CIVIC CENTRE 108
34	63.0	N	471190 173480	SU77SW47	46.0	CHEAPSIDE READING
35	80.0	S	471280 173220	SU77SW108	9.0	READING MAGISTRATES CRT M1
36F	82.0	S	471200 173200	SU77SW104	30.0	READING CIVIC OFFICES 1
37F	82.0	S	471200 173200	SU77SW107	20.0	READING CIVIC OFFICES 4
38F	82.0	S	471200 173200	SU77SW106	20.0	READING CIVIC OFFICES 3
39F	82.0	S	471200 173200	SU77SW105	20.0	READING CIVIC OFFICES 2
40	95.0	S	471260 173200	SU77SW109	7.0	READING MAGISTRATES CRT M2A
41	100.0	W	471050 173260	SU77SW694	18.0	READING CIVIC CENTRE BH5
42G	109.0	NW	471037 173472	SU77SW1118	2.0	CHATHAM PLACE READING TP07
43I	109.0	W	471021 173445	SU77SW1093	11.0	CHATHAM PLACE READING 8
44G	109.0	NW	471041 173478	SU77SW1101	12.0	CHATHAM PLACE READING 14
45H	111.0	NE	471390 173480	SU77SW191	22.0	BROAD STREET READING 1
46H	111.0	NE	471390 173480	SU77SW192	18.0	BROAD STREET READING 2
47I	112.0	W	471018 173445	SU77SW1109	30.0	CHATHAM PLACE READING 8R
48J	124.0	NW	471019 173473	SU77SW1091	11.0	CHATHAM PLACE READING 6
49	125.0	S	471130 173150	SU77SW692	18.0	READING CIVIC CENTRE BH3
50J	125.0	NW	471018 173474	SU77SW1107	40.0	CHATHAM PLACE READING 6R
51K	126.0	NW	471052 173510	SU77SW1116	2.0	CHATHAM PLACE READING TP05

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
52K	127.0	NW	471040 173501	SU77SW1123	1.0	CHATHAM PLACE READING TP12
53	129.0	SW	471044 173199	SU77SW844	15.0	3 BAKER STREET READING 1
54	131.0	S	471200 173150	SU77SW111	20.0	READING MAGISTRATES CRT P2
55M	132.0	NW	471022 173491	SU77SW1126	1.0	CHATHAM PLACE READING TP15
56L	133.0	W	470996 173444	SU77SW1119	3.0	CHATHAM PLACE READING TP08
57	135.0	S	471170 173140	SU77SW110	10.0	READING MAGISTRATES CRT P1
58L	140.0	W	470988 173442	SU77SW1094	11.0	CHATHAM PLACE READING 9
59	141.0	NW	470995 173464	SU77SW1130	1.0	CHATHAM PLACE READING TP19
60M	141.0	NW	471008 173487	SU77SW1127	2.0	CHATHAM PLACE READING TP16
61L	143.0	W	470985 173443	SU77SW1110	30.0	CHATHAM PLACE READING 9R
62N	143.0	NW	471022 173507	SU77SW1125	1.0	CHATHAM PLACE READING TP14
63P	143.0	NW	471038 173521	SU77SW1122	1.0	CHATHAM PLACE READING TP11
64	149.0	E	471500 173300	SU77SW52	20.0	READING BH1&2
65O	150.0	NW	471002 173495	SU77SW1105	50.0	CHATHAM PLACE READING 4R
66N	151.0	NW	471024 173519	SU77SW1115	2.0	CHATHAM PLACE READING TP04
67	152.0	NW	470990 173480	SU77SW1132	1.0	CHATHAM PLACE READING TP21
68O	154.0	NW	470997 173495	SU77SW1089	11.0	CHATHAM PLACE READING 4
69P	155.0	NW	471031 173530	SU77SW1121	3.0	CHATHAM PLACE READING TP10
70N	155.0	NW	471009 173511	SU77SW810	30.0	CHATHAM STREET - READING 2
71Q	157.0	NW	471019 173523	SU77SW1098	11.0	CHATHAM PLACE READING 12A
72Q	157.0	NW	471021 173525	SU77SW1097	11.0	CHATHAM PLACE READING 12
73R	158.0	NW	471003 173509	SU77SW1124	1.0	CHATHAM PLACE READING TP13
74R	164.0	NW	470997 173510	SU77SW1117	2.0	CHATHAM PLACE READING TP06
75	165.0	W	470965 173452	SU77SW1120	2.0	CHATHAM PLACE READING TP09
76S	169.0	NW	471005 173526	SU77SW1100	11.0	CHATHAM PLACE READING 13A
77S	172.0	NW	471005 173531	SU77SW1099	4.0	CHATHAM PLACE READING 13
78	173.0	S	471350 173140	SU77SW671	34.0	COURAGE BREWERIES NO 8 READING
79S	174.0	NW	471003 173531	SU77SW1114	4.0	CHATHAM PLACE READING TP03
80S	174.0	NW	471003 173531	SU77SW1113	1.0	CHATHAM PLACE READING TP02

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
81R	175.0	NW	470990 173520	SU77SW1096	11.0	CHATHAM PLACE READING 11
82	176.0	NW	470979 173506	SU77SW1131	1.0	CHATHAM PLACE READING TP20
83	178.0	S	471370 173140	SU77SW277	15.0	FOBNEY STREET READING 3
84	179.0	NE	471440 173530	SU77SW45	26.0	UNION STREET READING
85T	182.0	NW	471002 173541	SU77SW1112	3.0	CHATHAM PLACE READING TP01
86U	183.0	W	470942 173433	SU77SW1095	10.0	CHATHAM PLACE READING 10
87T	184.0	NW	470999 173541	SU77SW1086	12.0	CHATHAM PLACE READING 1
88T	184.0	NW	470998 173541	SU77SW1102	60.0	CHATHAM PLACE READING 1R
89U	185.0	W	470940 173432	SU77SW1111	31.0	CHATHAM PLACE READING 10R
90W	186.0	W	470944 173457	SU77SW1129	2.0	CHATHAM PLACE READING TP18A
91U	188.0	W	470939 173445	SU77SW811	30.0	CHATHAM STREET - READING 3
92	191.0	S	471250 173100	SU77SW279	15.0	FOBNEY STREET READING 6
93	192.0	S	471210 173090	SU77SW775	6.0	55-61 CASTLE STREET READING 3/3A
94V	193.0	NW	470948 173487	SU77SW1090	11.0	CHATHAM PLACE READING 5
95V	194.0	NW	470953 173499	SU77SW1128	3.0	CHATHAM PLACE READING TP17
96V	195.0	NW	470947 173490	SU77SW1106	42.0	CHATHAM PLACE READING 5R
97W	198.0	W	470934 173464	SU77SW1108	38.0	CHATHAM PLACE READING 7R
98W	199.0	W	470934 173467	SU77SW1092	10.0	CHATHAM PLACE READING 7
99	199.0	SE	471488 173172	SU77SW329	13.0	THE ORACLE READING 3
100X	201.0	NW	470964 173529	SU77SW1103	30.0	CHATHAM PLACE READING 2R
101X	202.0	NW	470962 173527	SU77SW1087	3.0	CHATHAM PLACE READING 2
102Y	209.0	S	471200 173070	SU77SW774	8.0	55-61 CASTLE STREET READING 2
103	210.0	S	471340 173100	SU77SW278	10.0	FOBNEY STREET READING 4
104Y	211.0	S	471210 173070	SU77SW773	14.0	55-61 CASTLE STREET READING 1
105	212.0	E	471557 173264	SU77SW346	30.0	THE ORACLE READING 13
106Z	217.0	NE	471500 173500	SU77SW628	6.0	147 FRIARS STREET READING
107Z	217.0	NE	471500 173500	SU77SW629	12.0	22/24 CROSS STREET READING
108A A	218.0	NW	470937 173519	SU77SW1088	3.0	CHATHAM PLACE READING 3
109A A	223.0	NW	470929 173516	SU77SW1104	48.0	CHATHAM PLACE READING 3R

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
110	224.0	E	471570 173370	SU77SW29	26.0	BROAD STREET READING
111	228.0	N	471280 173660	SU77SW16	12.0	16 GREYFRIARS ROAD READING
112	229.0	SE	471559 173219	SU77SW347	25.0	THE ORACLE READING 15
113	230.0	SE	471539 173183	SU77SW335	13.0	THE ORACLE READING 9
114A B	230.0	SE	471520 173160	SU77SW669	4.0	COURAGE BREWERIES NO 2 READING
115A B	230.0	SE	471520 173160	SU77SW42/D	37.0	COURAGE BREWERIES 6 READING
116A B	230.0	SE	471520 173160	SU77SW670	4.0	COURAGE BREWERIES NO 5 READING
117A B	230.0	SE	471520 173160	SU77SW42/B	46.0	COURAGE BREWERIES 4 READING
118A B	230.0	SE	471520 173160	SU77SW624	116.0	COURAGE BREWERIES NO 1 READING
119A B	230.0	SE	471520 173160	SU77SW42/A	105.0	COURAGE BREWERIES 1 READING
120A B	230.0	SE	471520 173160	SU77SW42/C	37.0	COURAGE BREWERIES 3 READING
121	232.0	E	471584 173338	SU77SW328	30.0	THE ORACLE READING 2
122	233.0	S	471400 173090	SU77SW43	89.0	COURAGE BREWERIES 7 READING
123	240.0	N	471130 173650	SU77SW682	12.0	READING CO-OP SACKVILLE STREET
124	241.0	S	471210 173040	SU77SW695	9.0	READING CIVIC CENTRE BHD1
125A B	242.0	SE	471536 173160	SU77SW348	30.0	THE ORACLE READING 16
126	244.0	S	471360 173070	SU77SW280	12.0	FOBNEY STREET READING 7

The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.

#1: scans.bgs.ac.uk/sobi_scans/boreholes/15639757
#2: scans.bgs.ac.uk/sobi_scans/boreholes/15639740
#3: scans.bgs.ac.uk/sobi_scans/boreholes/15639724
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#69P: scans.bgs.ac.uk/sobi_scans/boreholes/18382993
#70N: scans.bgs.ac.uk/sobi_scans/boreholes/15616939
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8 Estimated Background Soil Chemistry

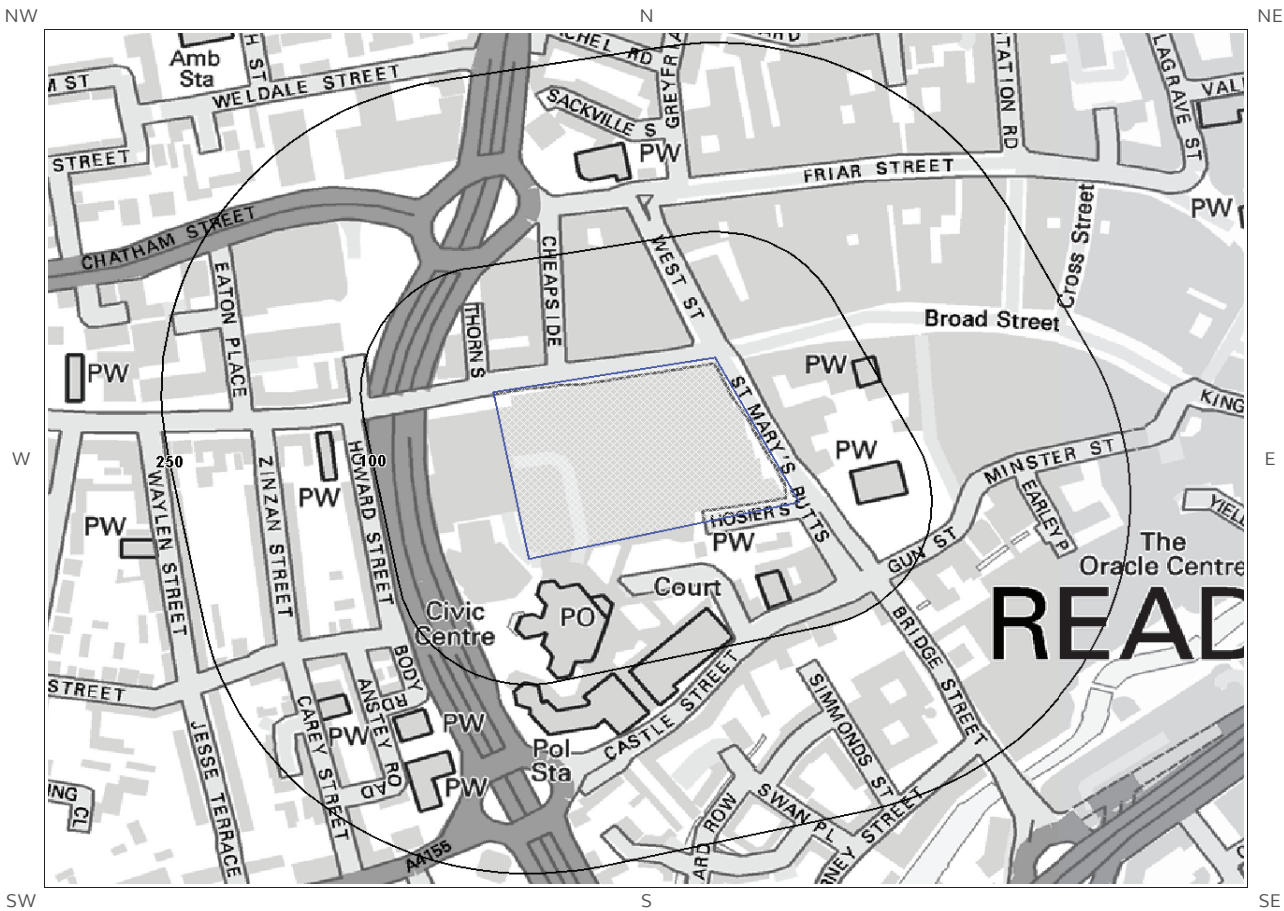
Records of background estimated soil chemistry within 250m of the study site boundary: 1

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

Distance (m)	Direction	Sample Type	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
0.0	On Site	Sediment	<15 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg

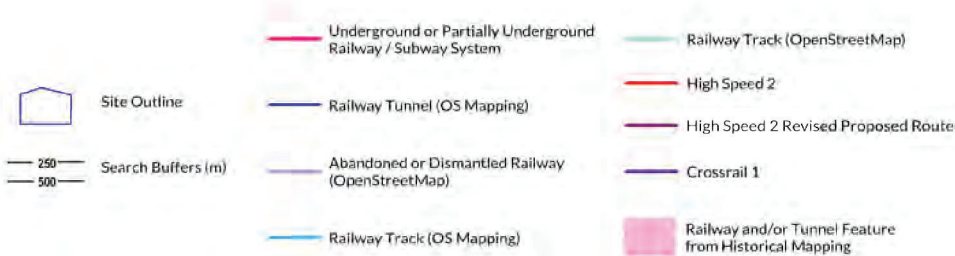
*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

9 Railways and Tunnels map



Railways and Tunnels Legend

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9 Railways and Tunnels

9.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary? No
Have any underground railway lines been identified within 250m of the study site boundary? No
Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary? No
Have any other railway tunnels been identified within 250m of the site boundary? No
Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

9.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary? No
Have any historical railway or tunnel features been identified within 250m of the study site boundary? No
Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

9.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary?	No
Have any historical railway lines been identified within 250m of the study site boundary?	No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above
Any records that have been identified are represented on the Railways and Tunnels map.

9.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary?	No
Have any active railway lines been identified within 250m of the study site boundary?	No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above
Any records that have been identified are represented on the Railways and Tunnels map.

9.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

Is the study site within 5km of the route of the High Speed 2 rail project?	No
Is the study site within 500m of the route of the Crossrail 1 rail project?	Yes

Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a Groundsure HS2 and Crossrail 1 Report.

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

Please note that this assessment takes account of both the original Phase 2b proposed route and the amended route proposed in 2016. As the Phase 2b route is still under consultation, Groundsure are providing information on both options until the final route is formally confirmed. Practitioners should take account of this uncertainty when advising clients.

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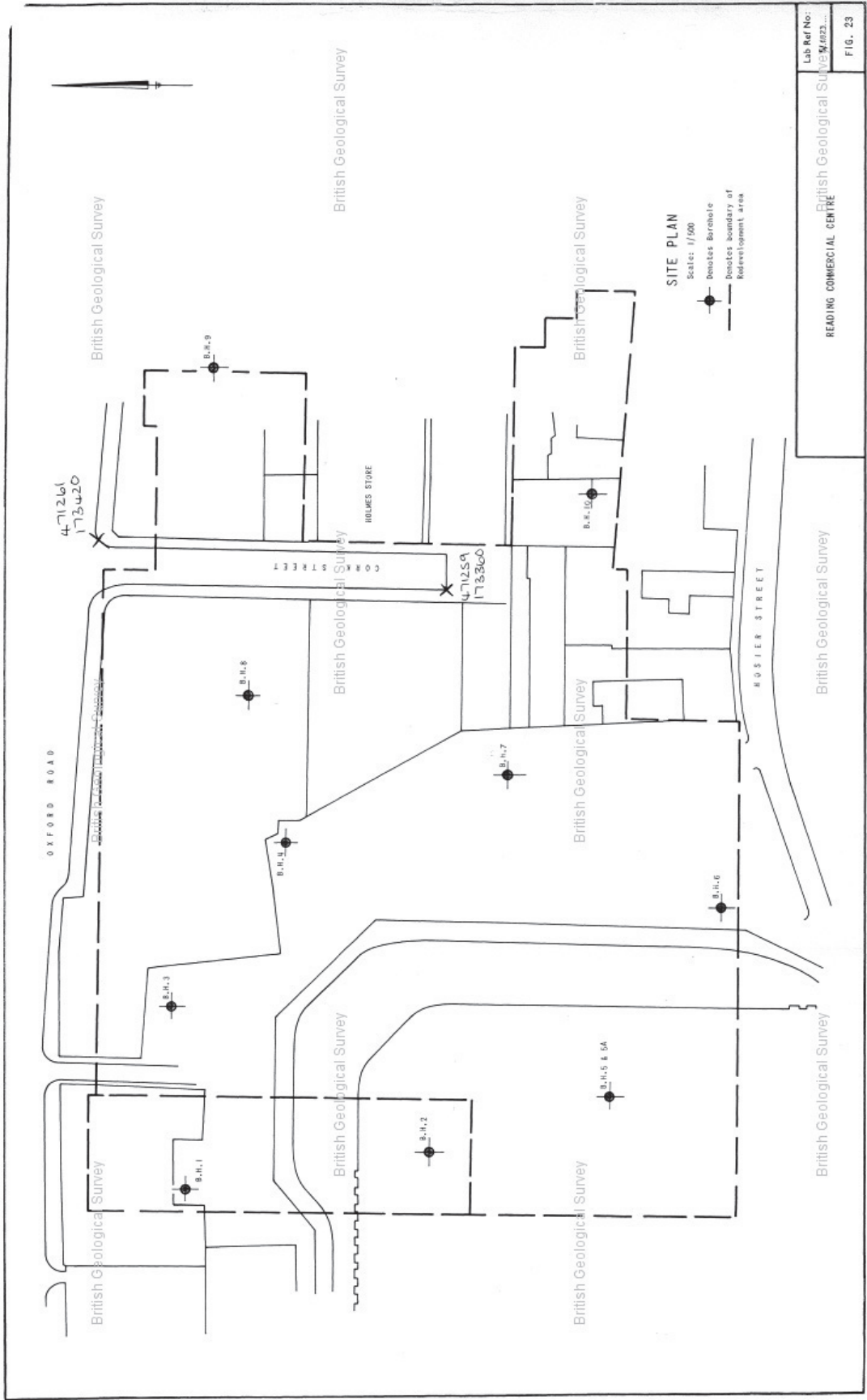
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Standard Terms and Conditions

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<https://www.groundsure.com/terms-and-conditions-may25-2018>



APPENDIX F
Borehole Records



RECORD OF BOREHOLE NO. 1 471152 173392

Ground level : 147.0ft above O.D. (approx) Dia. of boring : 8in to 50ft
Type of boring : Shell and Auger Lining tubes : 8in to 35ft 6in

Daily Progress	Samples		Change of Strata		Description of Strata
	Depth	Type	Legend	Depth	
	1'0" - 3'0"	BD C(3)			FILL (brick rubble, loose gravel and brown clay)
18.9.68	6'0" - 7'6"	U(4) D		6'0" 141.0	Soft brown silty CLAY
	9'0" - 9'0"	C(50) BD			Loose to dense medium to large flint GRAVEL
	14'0" - 14'6"	BD C(4)		16'6" 130.5	
	17'0" - 18'6"	U(4) D			
	18'6" - 19'6"	D			
	21'0" - 21'6"	BD C(31)			Angular CHALK fragments in a matrix of clayey chalk (solifluction chalk)
	25'0" - 26'6"	U(4) D			
	26'6" - 27'6"	D			
	29'0" - 29'6"	D C(19)		30'0" 117.0	gradational boundary
19.9.68	33'0" - 34'6"	U(4) D			
	34'6" - 35'6"	D			
	37'6" - 38'6"	C(38)			Very fissured white CHALK, rather hard and fine grained, becoming less fissured with depth
	41'0" - 42'6"	U(4) D			
	42'6" - 43'0"	BD			
	43'6" - 44'6"	C(52)			
20.9.68	47'6" - 49'0"	U(4) D		50'0" 97.0	
	49'0" - 50'0"	D			
Key to type of sample : U (4) — 4 in. dia. undisturbed sample. U (1½) — 1½ in. dia. " " D — disturbed sample. BD — bulk disturbed sample. V — vane test. S () — standard penetration test. C () — dynamic cone penetration test. Figure in brackets is No. of blows for penetration given in depth column (see Notes, page 1).					
Remarks : (Observations on ground-water, etc.) Water was added on 19.9.68 at 8ft below ground level to assist boring. Ground water was first encountered in the morning of 20.9.68 at 33ft. After withdrawal of casing to 20ft ground-water stood at 28ft.					
READING COMMERCIAL CENTRE					Lab Ref No. S/6823
					FIG. 1

RECORD OF BOREHOLE NO. 9 471292 173403

Ground level : 142.0ft above O.D. (approx) Dia. of boring : 8in to 22ft
Type of boring : Shell and Auger Lining tubes : 8in to 16ft 6in

Daily Progress	Samples		Change of Strata		Description of Strata
	Depth	Type	Legend	Depth	
	2'6" - 3'0"	BD C(32)		0'4" 141.7	Concrete
	5'6" - 6'0"	BD C(29)			Medium dense to dense fine to coarse sandy GRAVEL
	8'6" - 12'6"	BD U(4) D		11'6" 130.5	
	14'0" - 15'0"	D			
	17'0" - 18'0"	S(20) D			Broken and fissured CHALK with clayey chalk in fissured (possibly solifluction chalk)
15.11.68	20'6" - 22'0"	U(4) D		22'0" 120.0	
Key to type of sample : U (4) — 4 in. dia. undisturbed sample. U (1½) — 1½ in. dia. " " D — disturbed sample. BD — bulk disturbed sample. V — vane test. S () — standard penetration test. C () — dynamic cone penetration test. Figure in brackets is No. of blows for penetration given in depth column (see Notes, page 1).					
Remarks : (Observations on ground-water, etc.) Water was added on 15.11.68 at 2ft 6in below ground level to assist boring. Ground-water was encountered at 11ft 6in and again at 20ft 6in. In the evening ground-water stood at 21ft. In the morning of 16.11.68 ground-water stood at 18ft 9in. A sample of ground-water was taken on 18.11.68.					
READING COMMERCIAL CENTRE					Lab Ref No. S/6823
					FIG. 9

471228
-173346

Ground level : 146.0ft above O.D. (approx)

Dia. of boring : SF (47) to 26ft

Type of boring : Rotary Core Drilling (mud flush)

Lining tubes :..... 5½ in to 19ft

Daily Progress	Core Recovery		Change of Strata			Description of Strata
	Depth	%	Legend	Depth	O.D. Level	
23.10.68	0'0"	Not Cored		11'0"	135.0	FILL (overlying brown clayey sand and gravel)
						SAND and GRAVEL
	19'0"					
	19'5"		75%		19'0"	127.0
	20'1"		75%			
24.10.68	21'0"	75%				White clayey CHALK with flint nodules and fragments of harder chalk, gradually becoming more solid with depth
	22'9"	60%				
25.10.68	24'8"	Nil				
28.10.68	26'0"	Nil		26'0"	120.0	

Scale :

Drawing No :

S/R/

READING COMMERCIAL CENTRE

Soils No :
S/6823

FIG. 7

RECORD OF BOREHOLE NO. 5

471176
173322

Ground level : 130-5ft above O.D. (approx)

Dia. of boring : SF (4⁷/₁₆) to 7 ft 11 in

Type of boring:.....Rotary Core Drilling.

Lining tubes :.....SF to 8ft.

Daily Progress	Core Recovery		Change of Strata			Description of Strata
	Depth	%	Legend	Depth	O.D. Level	
	0'0"	Not Cored		3'0"	127.5	Light grey clayey CHALK with flints
						White clayey CHALK with flints (solifluction chalk)
30.10.68	7'11"				7'11"	122.6
						</

RECORD OF BOREHOLE NO. 5A

British Geological Survey

Ground level : 130.5ft above O.D. (approx)

Dia. of boring :..... SF (4⁷/₁₆) to 8ft 4in

Type of boring: Rotary Core Drilling

Lining tubes :..... SF to 8ft 2in.....

	2'6"	Not Cored		2'6"	128.0	Brown clayey CHALK with flints
	4'4"	100%				CHALK and FLINT fragments in matrix of grey-brown clayey CHALK (solifluction chalk)
	6'5"	100%		6'5"	124.0	Fine to coarse broken FLINT
	7'2"	100%		6'8"	123.8	Clayey CHALK with coarse broken flint
31.10.68	8'4"	100%		7'6"	123.0	CHALK (possibly in-situ) with large flint fragments
2.11.68	10'0"	Nil		8'4"	122.2	
	13'6"	21%				White CHALK with flints
4.11.68	17'7"	16%		17'7"	112.9	
Remarks:						

Remarks:

READING COMMERCIAL CENTRE

Lab Ref No.
S/6823

FIG. 5

GEORGE WIMBEY & CO. LTD.

CENTRAL LABORATORY

HAYES

Table F.1 Water Resource Mitigation Register

 TRIUM

Ground level : 145.0ft above O.D. (approx) Dia. of boring : 8in to 30ft

Type of boring : Shell and Auger Lining tubes : 8in to 19ft

[illegible]

On-site provisions will be made to contain a serious spill or leak through the use of booms, bunding and absorbent material in accordance with an Emergency Response Plan (ERP).
Refuelling and delivery areas will be located away from the local sewer network drains.
Disturbance of Existing Drainage Systems and Water Supply Network
The following mitigation measures will be embedded within the CEMP and implemented during the Site works: - All existing utilities will be identified and marked prior to works commencing; - Signs will be used to warn of the presence of utility infrastructure; and - Any damage to the drainage network will be immediately repaired.
Groundwater Flow and Quality
The preparation of a Piling Method Statement which will detail the depth and type of piling to be undertaken and the methodology by which such piling will be carried out, including measures to prevent and minimise the potential for damage to subsurface sewerage and water infrastructure and to demonstrate appropriate design and piling methods to avoid linking shallow and deep groundwater. The following mitigation measures will be embedded within the CEMP and implemented during the Site works: - Pile casing will be used during piling and the area around the piling will be isolated from surface water until piling is complete; - Any existing boreholes found on-site would be decommissioned; - If perched groundwater is encountered during establishment of basement and core foundations dewatering may be required. The most appropriate methods to dewater excavations will be selected, for example, prior to dewatering the perimeter of the excavation could be enclosed with either sheet-pile or a diaphragm wall. Piezometers (standpipes) could then be placed outside the sheet pile wall to monitor groundwater levels; - In the event that ground contamination is discovered, work will stop immediately and measures will be taken to prevent disturbance and mobilisation of contaminants, until the contamination has been treated in-situ or removed for off-site disposal or treatment; - If contaminated soils are encountered at the position where piling is due to be undertaken, then these materials should be removed prior to piling in order to prevent the dragging of contaminated soils with the piles to depth; - Contaminated soil requiring disposal will be excavated and kept separate from other soil and waste materials in protected temporary stockpiles prior to disposal; - Water arising from excavations will be disposed of to the local sewer network (subject to agreement with the appropriate authority) if uncontaminated and following the removal of silt via settlement ponds or alternative measures. All existing utilities will be identified and marked prior to works commencing; and - Damp-proof membranes will be incorporated into the construction. These membranes will prevent the ingress of groundwater and reduce the risk of contaminants from reaching underground strata or groundwater. The watertight basement will therefore prevent any interior leaks or spillages from freely percolating into the shallow groundwater.
Appropriate methods to dewater excavations are to be selected to ensure that groundwater does not drop below the critical level. Groundwater level monitoring will be undertaken as necessary to assess deformation and stability of surrounding structures, including neighbouring property.
Seepage analysis and groundwater level monitoring will be carried out as appropriate to assess deformation and stability of surrounding structures, including neighbouring property, as considered necessary.
Temporary Settlement and Surface Water Drainage
Temporary drainage facilities will be provided during the construction phase, where necessary, to ensure controlled discharge of surface water runoff.
It will be a requirement to ensure that runoff from the Site does not cause pollution or flooding. Measures that will be considered for implementation for temporary drainage through the construction design and/ or CEMP include: Site access points will be regularly cleaned to prevent build-up of dust and mud: - Oil interceptors to be installed (notably the outflow from the settlement pond/ tank) to reduce the potential risk for contamination of groundwater and surface water; and - All potentially polluted waters (including washdown areas, stockpiles and other areas of risk for water pollution) to have separate drainage and to be tankered away from the Site.
In addition, if monitoring demonstrates unsatisfactory levels of solids or other pollutants, measures will be implemented to control suspended solids or other polluted discharge to watercourses (e.g. changes to Site drainage and settlement facilities and/or use of flocculants).
Foul Drainage
A connection to the foul sewer will be needed for sanitary connection from offices/admin/welfare facilities. It is possible this connection may also be licensed for discharge of process effluent in abnormal circumstances if required.
Flood Risk
The CEMP will incorporate measures to prevent an increase in flood risk or pollution during the construction works, in addition to the provision of temporary settlement and drainage measures (where required).

Water Demand
The following measures will be implemented: - Selection and specification of equipment to reduce the amount of water required; - Implementation of staff-based initiatives such as turning off taps, plant and equipment when not in use both on-site and within Site offices; - Use of recycling water systems such as wheel washes, Site toilets hand wash; and - Use of a rainwater harvesting system for use in equipment and vehicle washing.
The water consumption throughout the construction works will be monitored, either through sub-metering or reading of utility bills, to allow comparison against best practice benchmarks and improvements to be made.
Wastewater Generation
The installation of water efficient fixtures and fittings can help further reduce the volume of foul water generated on-site.
Any waste effluent will be tested and any water that may have come into contact with contaminated materials or be identified as being contaminated, will be disposed of appropriately and, to the satisfaction of the EA and/or TWUL; and where necessary, disposed of at the correctly licensed facility by a licensed specialist contractor/s.

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