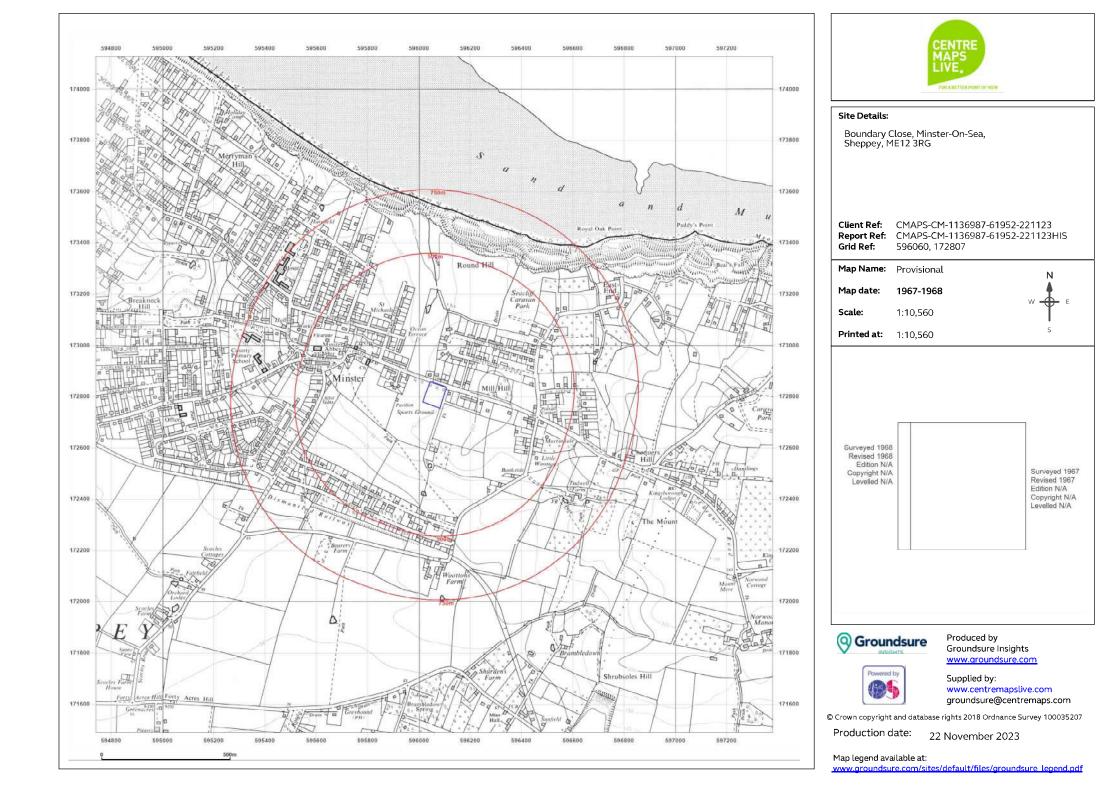
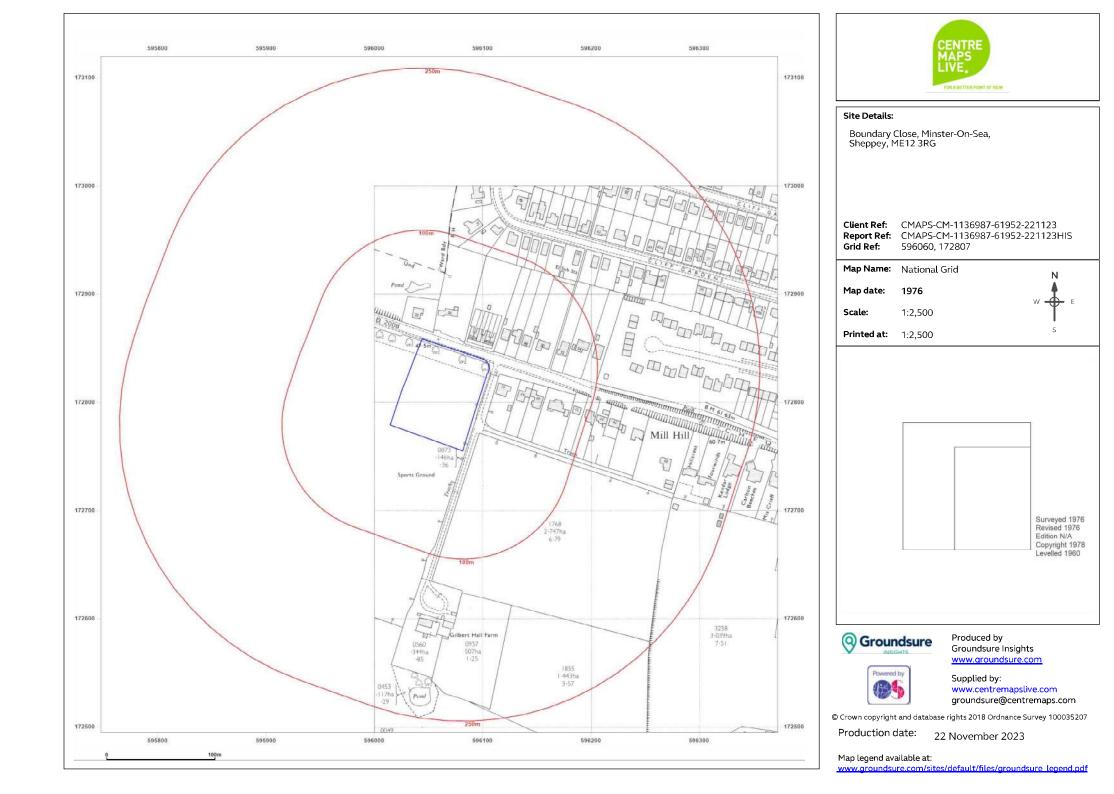
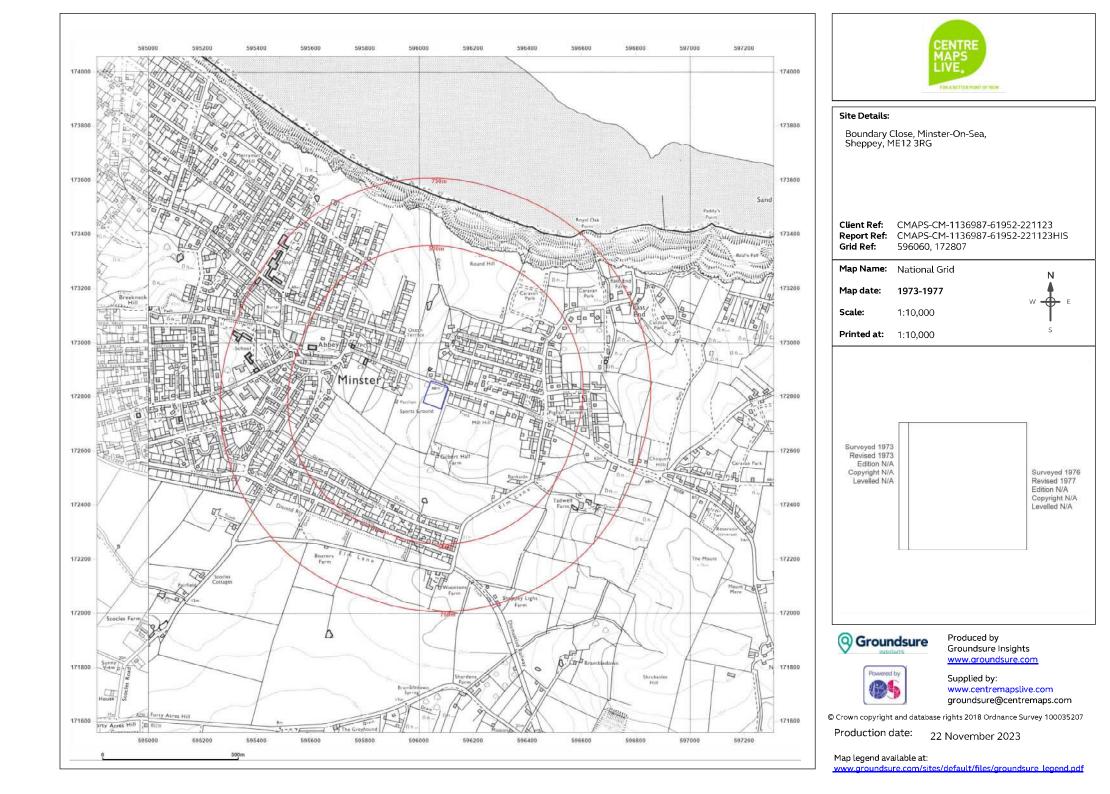


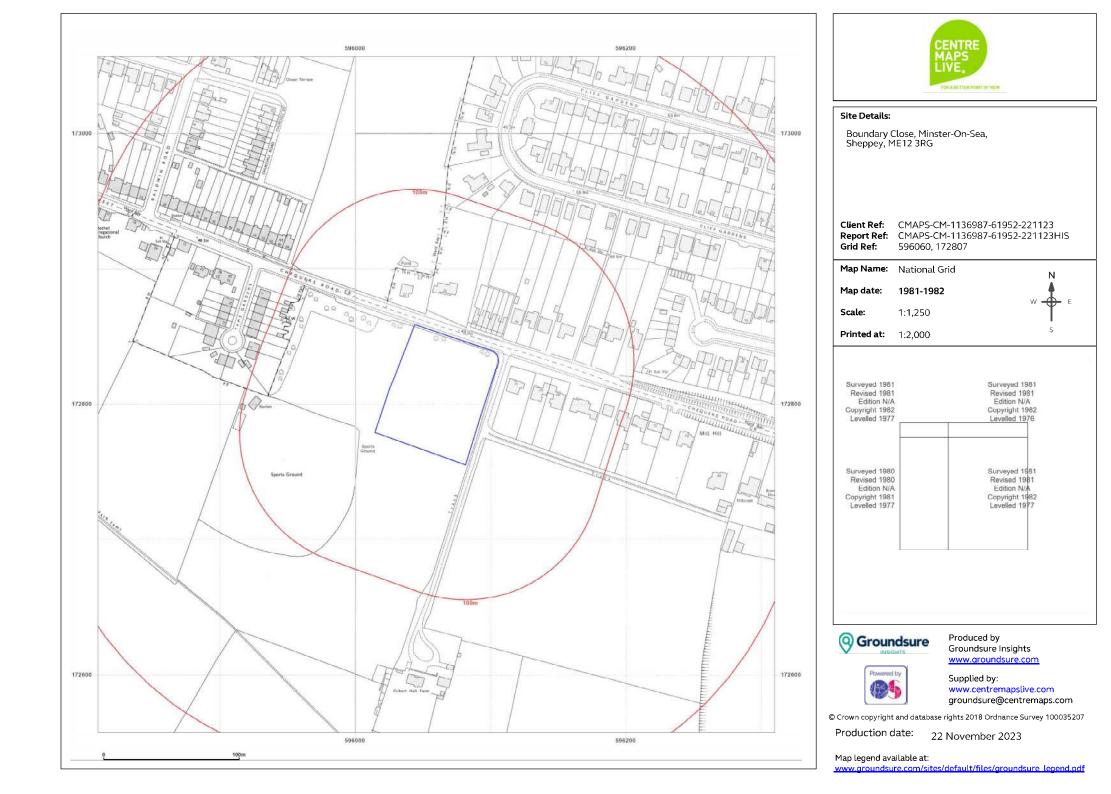
oduction date: 22 November 2023

Map legend available at: www.groundsure.com/sites/default/files/groundsure_legend.pdf

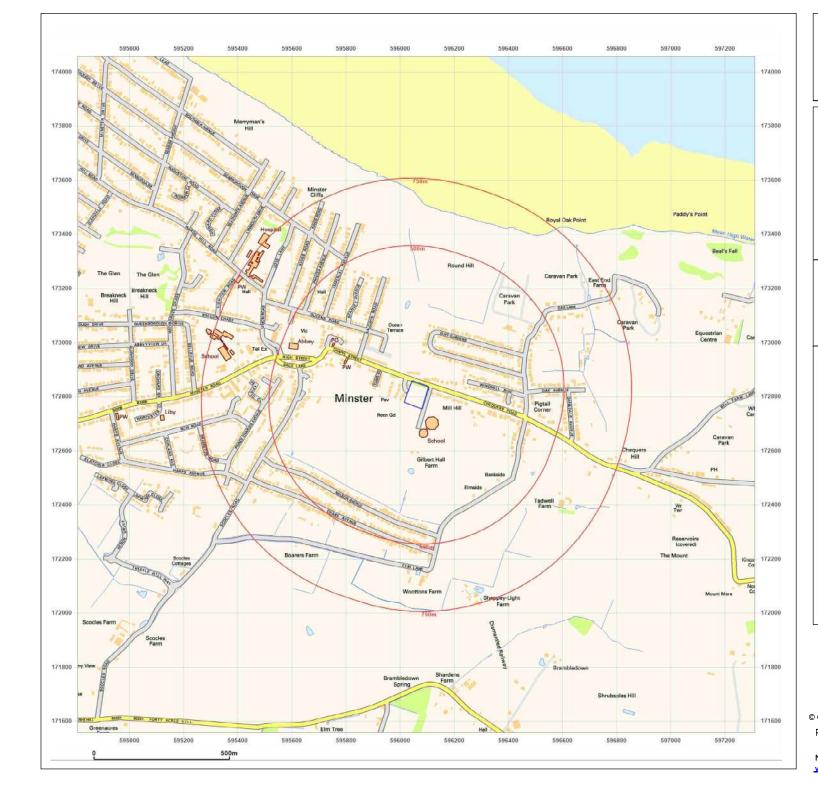


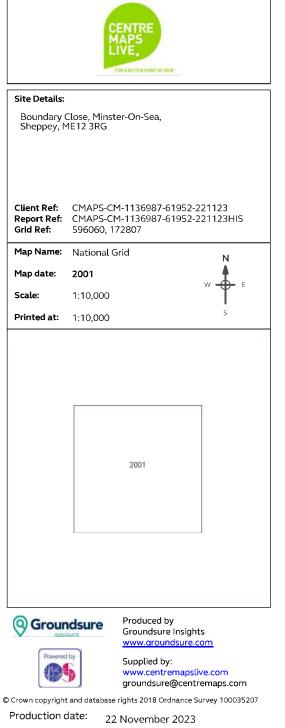




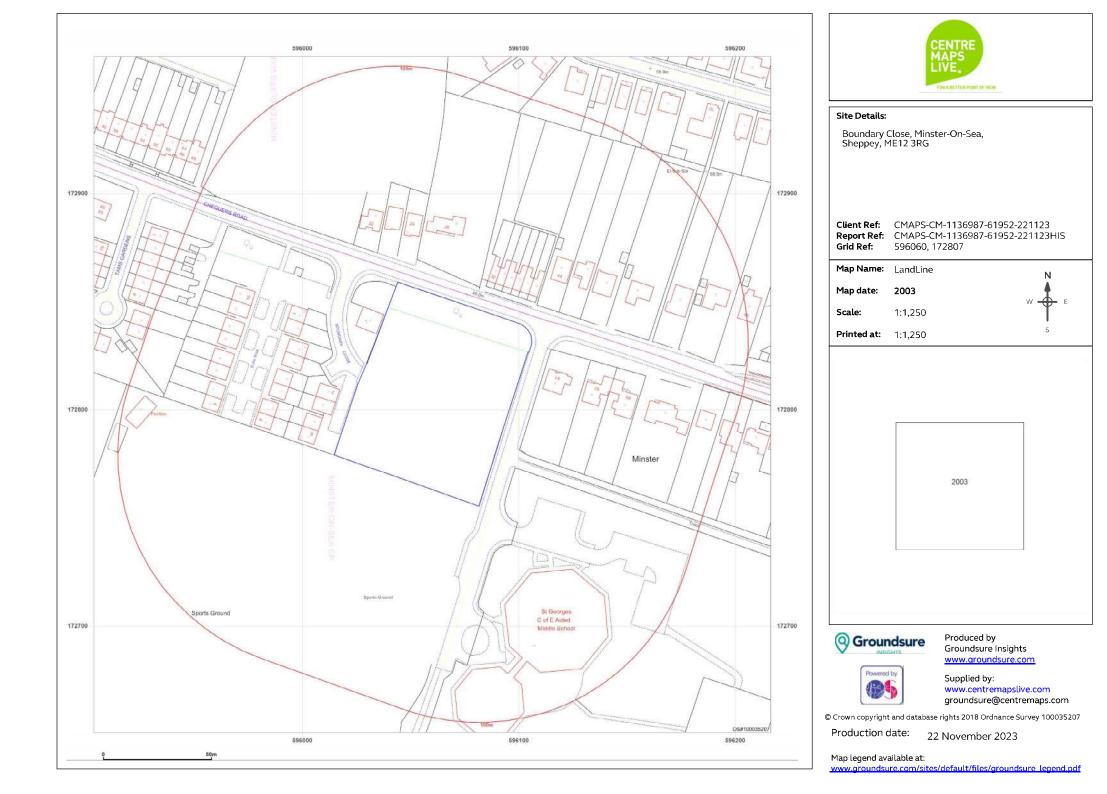


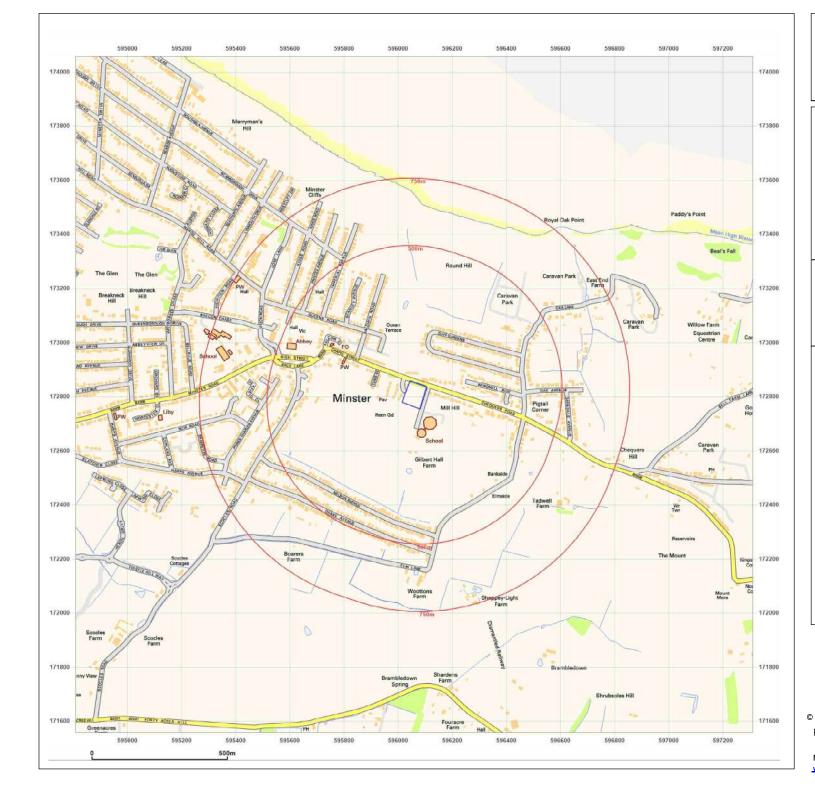


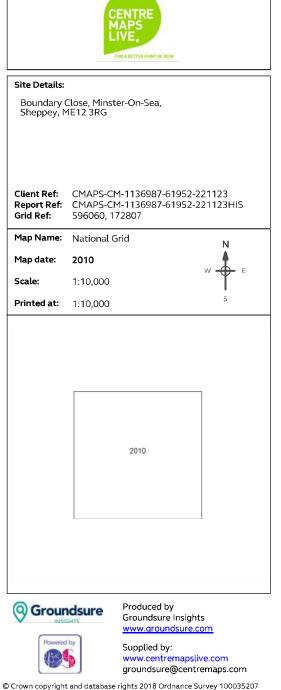




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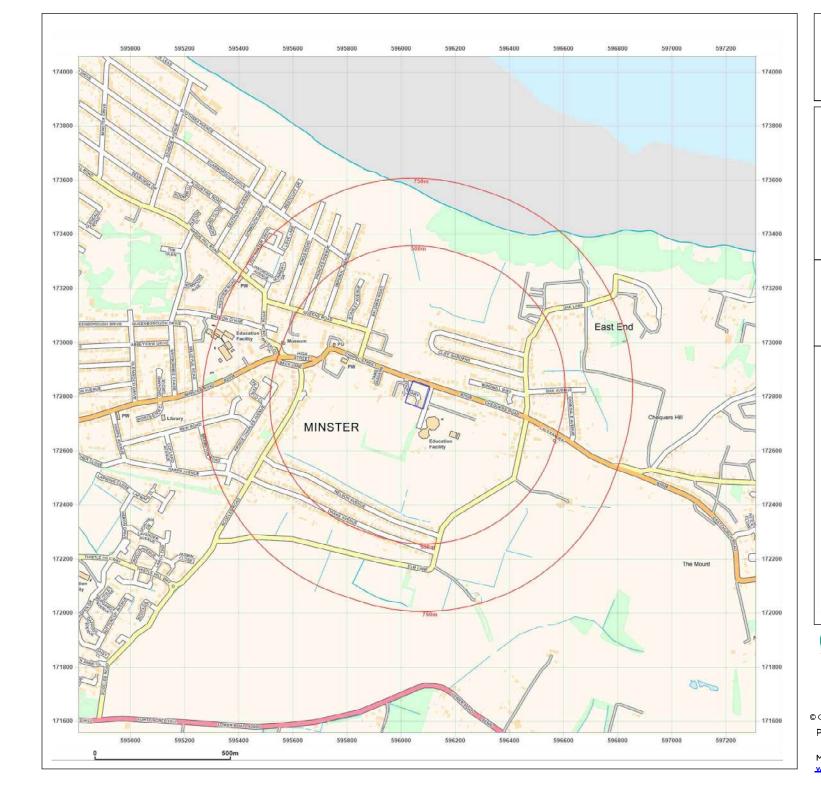


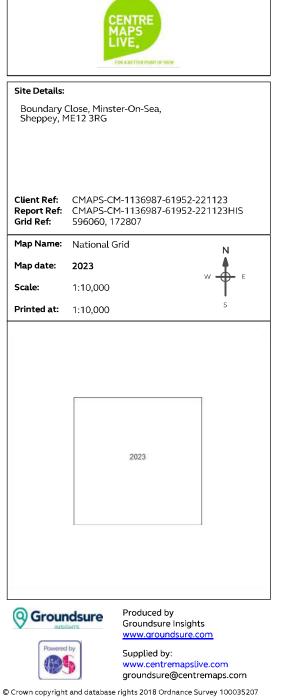




Production date: 22 November 2023

Map legend available at: www.groundsure.legend.pdf





Production date: 22 November 2023

Map legend available at: www.groundsure_legend.pdf

APPENDIX 5

GROUNDSURE ENVIRO AND GEO INSIGHT REPORT





Order Details

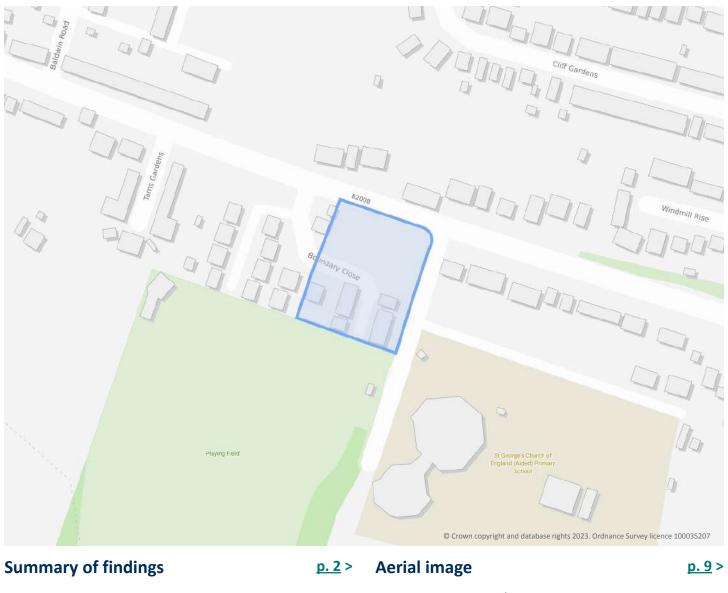
Date:	22/11/2023
Your ref:	CMAPS-CM-1136987-61952-221123
Our Ref:	CMAPS-CM-1136987-61952-221123EDRGEO

Site Details

 Location:
 596061 172807

 Area:
 0.59 ha

 Authority:
 Swale Borough Council ↗



OS MasterMap site plan

p.14 > groundsure.com/insightuserguide ↗





Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
<u>15</u> >	<u>1.1</u> >	Historical industrial land uses >	0	2	3	3	-
16	1.2	Historical tanks	0	0	0	0	_
<u>16</u> >	<u>1.3</u> >	Historical energy features >	0	0	6	3	-
17	1.4	Historical petrol stations	0	0	0	0	_
<u>17</u> >	<u>1.5</u> >	Historical garages >	0	0	0	3	-
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
<u>19</u> >	<u>2.1</u> >	Historical industrial land uses >	0	3	6	4	-
20	2.2	Historical tanks	0	0	0	0	_
<u>20</u> >	<u>2.3</u> >	Historical energy features >	0	0	9	5	-
21	2.4	Historical petrol stations	0	0	0	0	-
<u>21</u> >	<u>2.5</u> >	Historical garages >	0	0	0	3	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
23	3.1	Active or recent landfill	0	0	0	0	-
23	3.2	Historical landfill (BGS records)	0	0	0	0	-
24	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
24	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
24	3.5	Historical waste sites	0	0	0	0	-
24	3.6	Licensed waste sites	0	0	0	0	_
<u>24</u> >	<u>3.7</u> >	<u>Waste exemptions</u> >	0	0	1	1	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
<u>26</u> >	<u>4.1</u> >	Recent industrial land uses >	0	0	4	-	-
27	4.2	Current or recent petrol stations	0	0	0	0	-
27	4.3	Electricity cables	0	0	0	0	-
27	4.4	Gas pipelines	0	0	0	0	-
27	4.5	Sites determined as Contaminated Land	0	0	0	0	-





	27	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
	28	4.7	Regulated explosive sites	0	0	0	0	-
	28	4.8	Hazardous substance storage/usage	0	0	0	0	-
	28	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
	28	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
	28	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
	29	4.12	Radioactive Substance Authorisations	0	0	0	0	-
	29	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
	29	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
1	29	4.15	Pollutant release to public sewer	0	0	0	0	-
	29	4.16	List 1 Dangerous Substances	0	0	0	0	-
1	30	4.17	List 2 Dangerous Substances	0	0	0	0	-
1	30	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
1	30	4.19	Pollution inventory substances	0	0	0	0	-
							_	
	30	4.20	Pollution inventory waste transfers	0	0	0	0	-
	30 30	4.20 4.21	Pollution inventory waste transfers Pollution inventory radioactive waste	0	0	0	0	-
:								- 500-2000m
	30	4.21	Pollution inventory radioactive waste	0 On site	0	0 50-250m	0	- 500-2000m
	30 Page	4.21 Section	Pollution inventory radioactive waste	0 On site Identified (0 0-50m	0 50-250m	0	- 500-2000m
	30 Page <u>31</u> >	4.21 Section <u>5.1</u> >	Pollution inventory radioactive waste Hydrogeology > Superficial aquifer >	0 On site Identified (Identified (0 0-50m within 500m	0 50-250m	0	- 500-2000m
	30 Page <u>31</u> > <u>33</u> >	4.21 Section 5.1 > 5.2 >	Pollution inventory radioactive waste Hydrogeology > Superficial aquifer > Bedrock aquifer >	0 On site Identified (Identified (0 0-50m within 500m within 500m within 50m)	0 50-250m	0	- 500-2000m
	30 Page <u>31</u> > 33 > 35 >	4.21 Section 5.1 > 5.2 > 5.3 >	Pollution inventory radioactive waste Hydrogeology > Superficial aquifer > Bedrock aquifer > Groundwater vulnerability >	0 On site Identified (Identified (Identified (0 0-50m within 500m within 500m within 50m) in 0m)	0 50-250m	0	- 500-2000m
	30 Page 31 > 33 > 35 > 36	4.21 Section 5.1 > 5.2 > 5.3 > 5.4	Pollution inventory radioactive waste Hydrogeology > Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability - soluble rock risk	0 On site Identified (Identified (Identified (None (with	0 0-50m within 500m within 500m within 50m) in 0m)	0 50-250m	0	- 500-2000m
	30 Page 31 > 33 > 35 > 36 36	4.21 Section 5.1 > 5.2 > 5.3 > 5.4 5.5	Pollution inventory radioactive waste Hydrogeology > Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information	0 On site Identified (Identified (Identified (None (with None (with	0 0-50m within 500m within 500m within 50m) in 0m) in 0m)	0 50-250m)	0 250-500m	
	30 Page 31 > 33 > 35 > 36 36 37 >	4.21 Section 5.1 > 5.2 > 5.3 > 5.4 5.5 5.5	Pollution inventory radioactive waste Hydrogeology > Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions >	0 On site Identified (Identified (Identified (None (with None (with 0	0 0-50m within 500m within 500m within 50m) in 0m) in 0m) 0	0 50-250m))	0 250-500m 1	1
	30 Page 31 > 33 > 35 > 36 36 37 > 38	4.21 Section 5.1 > 5.2 > 5.3 > 5.4 5.5 5.5 5.6 >	Pollution inventory radioactive wasteHydrogeology >Superficial aquifer >Bedrock aquifer >Groundwater vulnerability >Groundwater vulnerability- soluble rock riskGroundwater vulnerability- local informationGroundwater abstractions >Surface water abstractions	0 On site Identified (Identified (Identified (None (with None (with 0 0	0 0-50m within 500m within 500m within 50m) in 0m) in 0m) 0 0	0 50-250m)) 0 0	0 250-500m 1 0	1 0
	30 Page 31 > 33 > 35 > 36 36 36 37 > 38 38 38	4.21 Section 5.1 > 5.2 > 5.3 > 5.4 5.5 5.5 5.6 > 5.7 5.7	Pollution inventory radioactive wasteHydrogeology >Superficial aquifer >Bedrock aquifer >Groundwater vulnerability >Groundwater vulnerability- soluble rock riskGroundwater vulnerability- local informationGroundwater abstractions >Surface water abstractionsPotable abstractions >	0 On site Identified (Identified (Identified (None (with None (with 0 0 0	0 0-50m within 500m within 500m within 50m) in 0m) in 0m) 0 0 0	0 50-250m)))))	0 250-500m 1 0 1	1 0
	30 Page 31 > 33 > 35 > 36 36 36 37 > 38 38 38 38 38	4.21 Section 5.1 > 5.2 > 5.3 > 5.4 5.5 5.5 5.7 5.7 5.8 > 5.9	Pollution inventory radioactive wasteHydrogeology >Superficial aquifer >Bedrock aquifer >Groundwater vulnerability >Groundwater vulnerability- soluble rock riskGroundwater vulnerability- local informationGroundwater abstractions >Surface water abstractionsSource Protection Zones	0 On site Identified (Identified (Identified (None (with None (with 0 0 0 0 0	0 0-50m within 500m within 500m within 50m) in 0m) in 0m) 0 0 0 0 0 0 0	0 50-250m))))))))))	0 250-500m 1 0 1 0	1 0
	30 Page 31 > 33 > 35 > 36 36 37 > 38 38 38 38 39	4.21 Section 5.1 > 5.2 > 5.3 > 5.4 5.5 5.5 5.7 5.7 5.8 > 5.9 5.10	Pollution inventory radioactive waste Hydrogeology > Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions > Surface water abstractions Potable abstractions > Source Protection Zones Source Protection Zones (confined aquifer)	0 On site Identified (Identified (None (with None (with 0 0 0 0 0 0 0	0 0-50m within 500m within 500m within 500m in 0m) in 0m) 0 0 0 0 0 0 0 0	0 50-250m)))))))))))))))))))	0 250-500m 1 0 1 0 0	1 0 - -



40	6.2	Surface water features	0	0	0	-	-
<u>41</u> >	<u>6.3</u> >	WFD Surface water body catchments >	1	-	-	-	-
41	6.4	WFD Surface water bodies	0	0	0	-	-
41	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
42	7.1	Risk of flooding from rivers and the sea	None (with	in 50m)			
42	7.2	Historical Flood Events	0	0	0	-	-
42	7.3	Flood Defences	0	0	0	-	-
43	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
43	7.5	Flood Storage Areas	0	0	0	-	-
44	7.6	Flood Zone 2	None (with	in 50m)			
44	7.7	Flood Zone 3	None (with	in 50m)			
Page	Section	Surface water flooding >					
<u>45</u> >	<u>8.1</u> >	Surface water flooding >	1 in 30 yea	r, 0.1m - 0.3r	n (within 50	m)	
Daga	Section	Groundwater flooding					
Page	Section	Groundwater flooding >					
Page <u>47</u> >	<u>9.1</u> >	Groundwater flooding >	Negligible (within 50m)			
_			Negligible (On site	within 50m) ^{0-50m}	50-250m	250-500m	500-2000m
<u>47</u> >	<u>9.1</u> >	Groundwater flooding >				250-500m 1	500-2000m 0
<u>47</u> > Page	<u>9.1</u> > Section	Groundwater flooding > Environmental designations >	On site	0-50m	50-250m		
<u>47</u> > Page <u>48</u> >	<u>9.1</u> > Section <u>10.1</u> >	Groundwater flooding > Environmental designations > Sites of Special Scientific Interest (SSSI) >	On site	0-50m ()	50-250m 0	1	0
47 > Page 48 > 49	9.1 > Section 10.1 > 10.2 > >	Groundwater flooding > Environmental designations > Sites of Special Scientific Interest (SSSI) > Conserved wetland sites (Ramsar sites)	On site O O	0-50m 0 0	50-250m 0 0	1 0	0
<pre>47 > Page 48 > 49 49</pre>	9.1 > Section 10.1 > 10.2 10.3	Groundwater flooding > Environmental designations > Sites of Special Scientific Interest (SSSI) > Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC)	On site O O O	0-50m 0 0	50-250m 0 0	1 0 0	0 0 0
47 > Page 48 > 49 49 49 49	<pre>9.1 > Section 10.1 > 10.2 10.3 10.4 ></pre>	Groundwater flooding > Environmental designations > Sites of Special Scientific Interest (SSSI) > Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) >	On site 0 0 0 0	0-50m 0 0 0	50-250m 0 0 0	1 0 0 0	0 0 0 2
<pre>47 > Page 48 > 49 49 49 49 50</pre>	<pre>9.1 > Section 10.1 > 10.2 10.3 10.4 > 10.5</pre>	Groundwater flooding > Environmental designations > Sites of Special Scientific Interest (SSSI) > Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) > National Nature Reserves (NNR)	On site 0 0 0 0 0 0 0	0-50m 0 0 0 0	50-250m 0 0 0 0 0	1 0 0 0 0	0 0 0 2 0
<pre>47 > Page 48 > 49 49 49 50 50</pre>	<pre>9.1 > Section 10.1 > 10.2 10.3 10.4 > 10.5 10.6</pre>	Groundwater floodingEnvironmental designationsSites of Special Scientific Interest (SSSI)Sites of Special Scientific Interest (SSSI)Conserved wetland sites (Ramsar sites)Special Areas of Conservation (SAC)Special Protection Areas (SPA)National Nature Reserves (NNR)Local Nature Reserves (LNR)	On site 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0	50-250m 0 0 0 0 0	1 0 0 0 0 0	0 0 0 2 0 0
<pre>47 > Page 48 > 49 49 49 50 50 50 50</pre>	<pre>9.1 > Section 10.1 > 10.2 10.3 10.4 > 10.5 10.6 10.7</pre>	Groundwater flooding >Environmental designations >Sites of Special Scientific Interest (SSSI) >Conserved wetland sites (Ramsar sites)Special Areas of Conservation (SAC)Special Protection Areas (SPA) >National Nature Reserves (NNR)Local Nature Reserves (LNR)Designated Ancient Woodland	On site 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0 0	50-250m 0 0 0 0 0 0 0	1 0 0 0 0 0 0	0 0 2 0 0 0
<pre>47 > Page 48 > 49 49 49 50 50 50 50 50 50</pre>	<pre>9.1 > Section 10.1 > 10.2 10.3 10.4 > 10.5 10.6 10.7 10.8</pre>	Groundwater flooding >Environmental designations >Sites of Special Scientific Interest (SSSI) >Conserved wetland sites (Ramsar sites)Special Areas of Conservation (SAC)Special Protection Areas (SPA) >National Nature Reserves (NNR)Local Nature Reserves (LNR)Designated Ancient WoodlandBiosphere Reserves	On site 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0 0 0 0 0	50-250m 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0	0 0 2 0 0 0 0 0
<pre>47 > Page 48 > 49 49 49 49 50 50 50 50 50 50 50 51</pre>	<pre>9.1 > Section 10.1 > 10.2 10.3 10.4 > 10.5 10.6 10.7 10.8 10.9</pre>	Groundwater flooding >Environmental designations >Sites of Special Scientific Interest (SSSI) >Sites of Special Scientific Interest (SSSI) >Conserved wetland sites (Ramsar sites)Special Areas of Conservation (SAC)Special Protection Areas (SPA) >National Nature Reserves (NNR)Local Nature Reserves (LNR)Designated Ancient WoodlandBiosphere ReservesForest Parks	On site 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0 0 0 0 0 0 0 0	50-250m 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0	0 0 2 0 0 0 0 0 0
<pre>47 > Page 48 > 49 49 49 49 50 50 50 50 50 51 51 51</pre>	<pre>9.1 > Section 10.1 > 10.2 10.3 10.4 > 10.5 10.6 10.7 10.8 10.9 10.10</pre>	Groundwater flooding >Environmental designations >Sites of Special Scientific Interest (SSSI) >Sites of Special Scientific Interest (SSSI) >Conserved wetland sites (Ramsar sites)Special Areas of Conservation (SAC)Special Protection Areas (SPA) >National Nature Reserves (NNR)Local Nature Reserves (LNR)Designated Ancient WoodlandBiosphere ReservesForest ParksMarine Conservation Zones	On site 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0 0 0 0 0 0 0 0	50-250m 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0 0 0 0 0 0 0 0 0 0	0 0 2 0 0 0 0 0 0 0 0





51	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
52	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
52	10.15	Nitrate Sensitive Areas	0	0	0	0	0
52	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
<u>53</u> >	<u>10.17</u> >	SSSI Impact Risk Zones >	3	-	-	-	-
<u>55</u> >	<u>10.18</u> >	<u>SSSI Units</u> >	0	0	0	1	0
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
57	11.1	World Heritage Sites	0	0	0	-	-
58	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
58	11.3	National Parks	0	0	0	-	-
<u>58</u> >	<u>11.4</u> >	<u>Listed Buildings</u> >	0	0	1	-	-
59	11.5	Conservation Areas	0	0	0	-	-
59	11.6	Scheduled Ancient Monuments	0	0	0	-	-
59	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
<u>60</u> >	<u>12.1</u> >	Agricultural Land Classification >	Urban (with	hin 250m)			
<u>60</u> > 61	<u>12.1</u> > 12.2	Agricultural Land Classification > Open Access Land	Urban (with 0	hin 250m) 0	0	-	_
					0 0	-	-
61	12.2	Open Access Land	0	0		-	- - -
61 61	12.2 12.3	Open Access Land Tree Felling Licences	0	0	0	-	- - -
61 61 61	12.2 12.3 12.4	Open Access Land Tree Felling Licences Environmental Stewardship Schemes	0 0 0	0 0 0	0 0	- - - 250-500m	- - - 500-2000m
61 61 61 62	12.2 12.3 12.4 12.5	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes	0 0 0	0 0 0	0 0 0	- - - 250-500m -	- - - 500-2000m
61 61 61 62 Page	12.2 12.3 12.4 12.5 Section	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations >	0 0 0 0 On site	0 0 0 0 0-50m	0 0 0 50-250m	- - - 250-500m -	- - - 500-2000m -
61 61 62 Page 63	12.2 12.3 12.4 12.5 Section 13.1	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes <u>Habitat designations</u> > Priority Habitat Inventory	0 0 0 0 0 0 0 0	0 0 0 0 0-50m	0 0 0 50-250m 0	- - - 250-500m - -	- - - 500-2000m - -
61 61 62 Page 63 63	12.2 12.3 12.4 12.5 Section 13.1 13.2 >	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations > Priority Habitat Inventory Habitat Networks >	0 0 0 0 0 0 0 0	0 0 0 0 0-50m 0	0 0 0 50-250m 0 2	- - - 250-500m - - - -	- - - 500-2000m - - -
61 61 62 Page 63 63 64	12.2 12.3 12.4 12.5 Section 13.1 13.2 > 13.3	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations > Priority Habitat Inventory Habitat Networks > Open Mosaic Habitat	0 0 0 0 0 0 0 0 0	0 0 0 0 0-50m 0 0	0 0 50-250m 0 2 0	- - - 250-500m - - - - 250-200m	- - - 500-2000m - - - - - - - - - - - - - -
 61 61 62 Page 63 63 > 64 64 	 12.2 12.3 12.4 12.5 Section 13.1 13.2 > 13.3 13.4 	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations > Priority Habitat Inventory Habitat Networks > Open Mosaic Habitat Limestone Pavement Orders	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0-50m 0 0 0 0	0 0 50-250m 0 2 0 0 0 50-250m		- - -
61 61 62 Page 63 64 64 64 Page	 12.2 12.3 12.4 12.5 Section 13.1 13.2 > 13.3 13.4 Section 	Open Access LandTree Felling LicencesEnvironmental Stewardship SchemesCountryside Stewardship SchemesHabitat designations >Priority Habitat InventoryHabitat Networks >Open Mosaic HabitatLimestone Pavement OrdersGeology 1:10,000 scale >	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0-50m 0 0 0 0 0	0 0 50-250m 0 2 0 0 0 50-250m		- - -



67	14.4	Landslip (10k)	0	0	0	0	-
68	14.5	Bedrock geology (10k)	0	0	0	0	-
68	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
<u>69</u> >	<u>15.1</u> >	<u>50k Availability</u> >	Identified (within 500m)		
70	15.2	Artificial and made ground (50k)	0	0	0	0	-
70	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<u>71</u> >	<u>15.4</u> >	Superficial geology (50k) >	0	0	1	3	-
72	15.5	Superficial permeability (50k)	None (with	in 50m)			
72	15.6	Landslip (50k)	0	0	0	0	-
72	15.7	Landslip permeability (50k)	None (with	in 50m)			
<u>73</u> >	<u>15.8</u> >	Bedrock geology (50k) >	2	1	2	2	-
<u>74</u> >	<u>15.9</u> >	Bedrock permeability (50k) >	Identified (within 50m)			
74	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
<u>75</u> >	<u>16.1</u> >	BGS Boreholes >	0	1	0	-	-
Page	Section	Natural ground subsidence >					
<u>76</u> >	<u>17.1</u> >	Shrink swell clays >	Madavata (within 50m)			
			woderate (within Sonij			
<u>77</u> >	<u>17.2</u> >	Running sands >	Low (within				
<u>77</u> > <u>79</u> >	<u>17.2</u> > <u>17.3</u> >		Low (withir				
		<u>Running sands</u> >	Low (withir	n 50m) within 50m)			
<u>79</u> >	<u>17.3</u> >	<u>Running sands</u> > <u>Compressible deposits</u> >	Low (withir Negligible (n 50m) within 50m) vithin 50m)			
<u>79</u> > <u>80</u> >	<u>17.3</u> > <u>17.4</u> >	<u>Running sands</u> > <u>Compressible deposits</u> > <u>Collapsible deposits</u> >	Low (withir Negligible (Very low (w Very low (w	n 50m) within 50m) vithin 50m)			
<u>79</u> > <u>80</u> > <u>81</u> >	<u>17.3</u> > <u>17.4</u> > <u>17.5</u> >	Running sands > Compressible deposits > Collapsible deposits > Landslides >	Low (withir Negligible (Very low (w Very low (w	n 50m) within 50m) vithin 50m) vithin 50m)	50-250m	250-500m	500-2000m
<u>79</u> > <u>80</u> > <u>81</u> > <u>82</u> >	<u>17.3</u> > <u>17.4</u> > <u>17.5</u> > <u>17.6</u> >	Running sands > Compressible deposits > Collapsible deposits > Landslides > Ground dissolution of soluble rocks >	Low (within Negligible (Very low (w Very low (w Negligible (n 50m) within 50m) vithin 50m) vithin 50m) within 50m)	50-250m 0	250-500m	500-2000m
79 80 81 82 > Page	17.3 17.4 17.5 17.6 Section	Running sands > Compressible deposits > Collapsible deposits > Landslides > Ground dissolution of soluble rocks > Mining and ground workings >	Low (within Negligible (Very low (w Very low (w Negligible (On site	n 50m) within 50m) vithin 50m) vithin 50m) within 50m) 0-50m			500-2000m -
79 > 80 > 81 > 82 > Page 84	17.3 17.4 17.5 17.6 Section 18.1	Running sands >Compressible deposits >Collapsible deposits >Landslides >Ground dissolution of soluble rocks >Mining and ground workings >BritPits	Low (within Negligible (Very low (w Very low (w Negligible (On site 0	n 50m) within 50m) vithin 50m) vithin 50m) within 50m) 0-50m	0		500-2000m - - 0
79 > 80 > 81 > 82 > Page 84 85 >	17.3 > 17.4 > 17.5 > 17.6 > Section 18.1 18.2 >	Running sands >Compressible deposits >Collapsible deposits >Landslides >Ground dissolution of soluble rocks >Mining and ground workings >BritPitsSurface ground workings >	Low (within Negligible (Very low (w Very low (w Negligible (On site 0 0	xithin 50m) vithin 50m) vithin 50m) within 50m) 0-50m 0 3	0 5	0 -	-
<pre>79 > 80 > 81 > 82 > Page 84 85 > 85</pre>	17.3 > 17.4 > 17.5 > 17.6 > Section 18.1 18.2 > 18.3	Running sands >Compressible deposits >Collapsible deposits >Landslides >Ground dissolution of soluble rocks >Mining and ground workings >BritPitsSurface ground workings >Underground workings	Low (within Negligible (Very low (w Very low (w Negligible (On site 0 0 0	n 50m) within 50m) vithin 50m) within 50m) within 50m) 0-50m 0 3 0	0 5 0	0 - 0	-



86	18.6	Non-coal mining	0	0	0	0	0
86	18.7	JPB mining areas	None (with	nin Om)			
86	18.8	The Coal Authority non-coal mining	0	0	0	0	-
87	18.9	Researched mining	0	0	0	0	-
87	18.10	Mining record office plans	0	0	0	0	-
87	18.11	BGS mine plans	0	0	0	0	-
87	18.12	Coal mining	None (with	nin Om)			
87	18.13	Brine areas	None (with	nin Om)			
88	18.14	Gypsum areas	None (with	nin Om)			
88	18.15	Tin mining	None (with	nin 0m)			
88	18.16	Clay mining	None (with	nin 0m)			
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
89	19.1	Natural cavities	0	0	0	0	-
89	19.2	Mining cavities	0	0	0	0	0
89	19.3	Reported recent incidents	0	0	0	0	-
89	19.4	Historical incidents	0	0	0	0	-
90	19.5	National karst database	0	0	0	0	-
Page	Section	<u>Radon</u> >					
<u>91</u> >	<u>20.1</u> >	Radon >	Less than 1	L% (within Or	n)		
Page	Section	<u>Soil chemistry</u> >	On site	0-50m	50-250m	250-500m	500-2000m
<u>93</u> >	<u>21.1</u> >	BGS Estimated Background Soil Chemistry >	2	2	-	-	-
93	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
94	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
95	22.1	Underground railways (London)	0	0	0	-	-
95	22.2	Underground railways (Non-London)	0	0	0	-	-
95	22.3	Railway tunnels	0	0	0	-	-
95	22.4	Historical railway and tunnel features	0	0	0	-	-
95	22.5	Royal Mail tunnels	0	0	0	-	-



96	22.6	Historical railways	0	0	0	-	-
96	22.7	Railways	0	0	0	_	-
96	22.8	Crossrail 1	0	0	0	0	-
96	22.9	Crossrail 2	0	0	0	0	-
96	22.10	HS2	0	0	0	0	_





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Recent aerial photograph



Capture Date: 31/05/2021 Site Area: 0.59ha





Ref: CMAPS-CM-1136987-61952-221123EDRGEO Your ref: CMAPS-CM-1136987-61952-221123 Grid ref: 596061 172807

Recent site history - 2018 aerial photograph



Capture Date: 21/10/2018 Site Area: 0.59ha







Ref: CMAPS-CM-1136987-61952-221123EDRGEO Your ref: CMAPS-CM-1136987-61952-221123 Grid ref: 596061 172807

Recent site history - 2012 aerial photograph



Capture Date: 25/05/2012 Site Area: 0.59ha







Ref: CMAPS-CM-1136987-61952-221123EDRGEO Your ref: CMAPS-CM-1136987-61952-221123 Grid ref: 596061 172807

Recent site history - 2008 aerial photograph



Capture Date: 09/10/2008 Site Area: 0.59ha

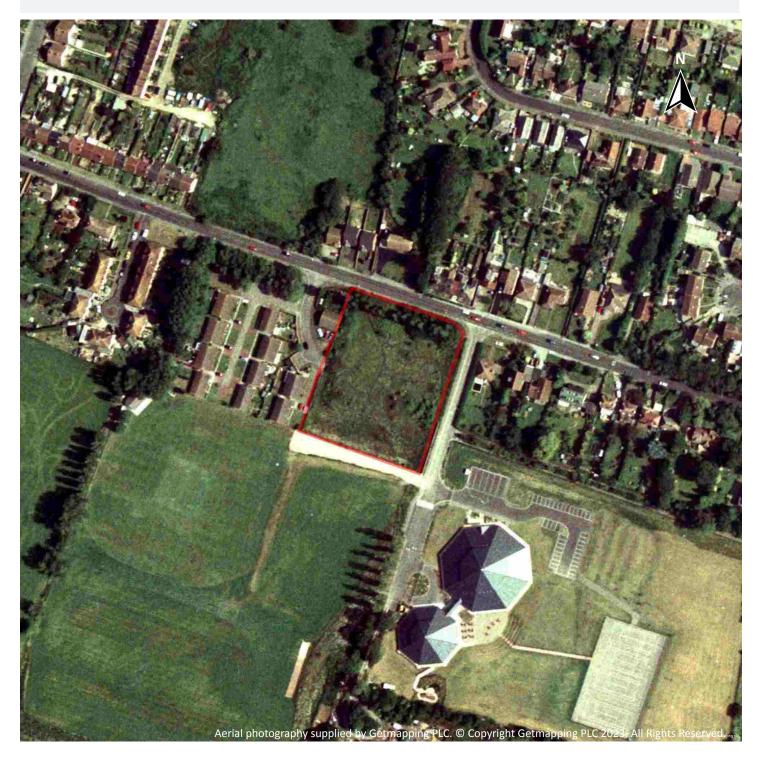






Ref: CMAPS-CM-1136987-61952-221123EDRGEO Your ref: CMAPS-CM-1136987-61952-221123 Grid ref: 596061 172807

Recent site history - 1999 aerial photograph



Capture Date: 26/06/1999 Site Area: 0.59ha







Ref: CMAPS-CM-1136987-61952-221123EDRGEO Your ref: CMAPS-CM-1136987-61952-221123 Grid ref: 596061 172807

OS MasterMap site plan



Site Area: 0.59ha

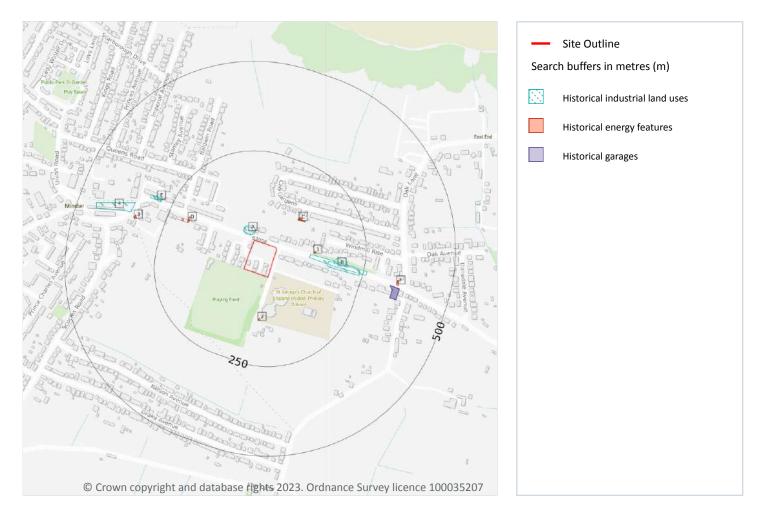






Ref: CMAPS-CM-1136987-61952-221123EDRGEO Your ref: CMAPS-CM-1136987-61952-221123 Grid ref: 596061 172807

1 Past land use



1.1 Historical industrial land uses

Records within 500m

8

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 15 >

ID	Location	Land use	Dates present	Group ID
А	17m N	Unspecified Heap	1888	2287900







ID	Location	Land use	Dates present	Group ID
А	17m N	Unspecified Heap	1896 - 1906	2220336
В	94m E	Cuttings	1888	2278004
В	147m E	Cuttings	1896 - 1938	2205650
В	164m E	Corn Windmill	1865	2138261
Е	282m NW	Smithy	1888	2276662
Е	284m NW	Smithy	1896 - 1906	2178296
4	349m NW	Grave Yard	1865	2145867

1.2 Historical tanks

Records within 500m

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'.

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

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 15 >

ID	Location	Land use	Dates present	Group ID
С	100m NE	Electricity Substation	1976 - 1998	283355
С	103m NE	Electricity Substation	1982	292093
1	105m E	Electricity Substation	1982 - 1998	285157
2	118m S	Electricity Substation	1998	247365





9



ID	Location	Land use	Dates present	Group ID
D	189m NW	Electricity Substation	1981 - 1989	257535
D	205m NW	Electricity Substation	1993	247364
3	329m W	Electricity Substation	1970 - 1981	285540
F	348m E	Electricity Substation	1976	267082
F	348m E	Electricity Substation	1982 - 1998	276158

1.4 Historical petrol stations

Records within 500m

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

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 15 >

ID	Location	Land use	Dates present	Group ID
F	332m E	Garage	1976	78396
F	333m E	Garage	1998	78547
F	333m E	Garage	1982	78437

This data is sourced from Ordnance Survey / Groundsure.





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1.6 Historical military land

Records within 500m

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.

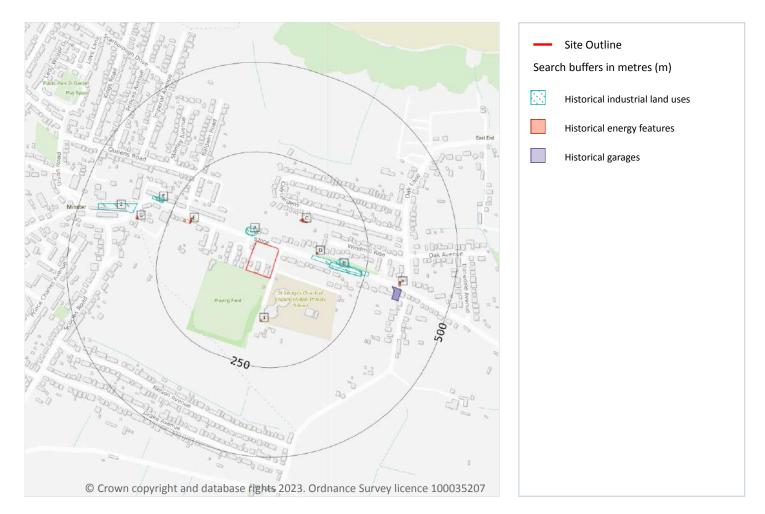






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2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m

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 ungrouped 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
А	17m N	Unspecified Heap	1888	2287900
А	17m N	Unspecified Heap	1906	2220336
А	17m N	Unspecified Heap	1896	2220336







ID	Location	Land Use	Date	Group ID
В	94m E	Cuttings	1888	2278004
В	147m E	Cuttings	1938	2205650
В	147m E	Cuttings	1931	2205650
В	147m E	Cuttings	1906	2205650
В	147m E	Cuttings	1896	2205650
В	164m E	Corn Windmill	1865	2138261
F	282m NW	Smithy	1888	2276662
F	284m NW	Smithy	1906	2178296
F	284m NW	Smithy	1896	2178296
2	349m NW	Grave Yard	1865	2145867

2.2 Historical tanks

Records within 500m

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'.

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	14

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
С	100m NE	Electricity Substation	1998	283355
С	103m NE	Electricity Substation	1976	283355
С	103m NE	Electricity Substation	1982	292093







ID	Location	Land Use	Date	Group ID
D	105m E	Electricity Substation	1998	285157
D	105m E	Electricity Substation	1982	285157
1	118m S	Electricity Substation	1998	247365
Е	189m NW	Electricity Substation	1981	257535
Е	190m NW	Electricity Substation	1989	257535
Е	205m NW	Electricity Substation	1993	247364
G	329m W	Electricity Substation	1981	285540
G	331m W	Electricity Substation	1970	285540
Н	348m E	Electricity Substation	1976	267082
Н	348m E	Electricity Substation	1998	276158
Н	349m E	Electricity Substation	1982	276158

2.4 Historical petrol stations

Records within 500m

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

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
Н	332m E	Garage	1976	78396
Н	333m E	Garage	1998	78547





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ID	Location	Land Use	Date	Group ID
Н	333m E	Garage	1982	78437

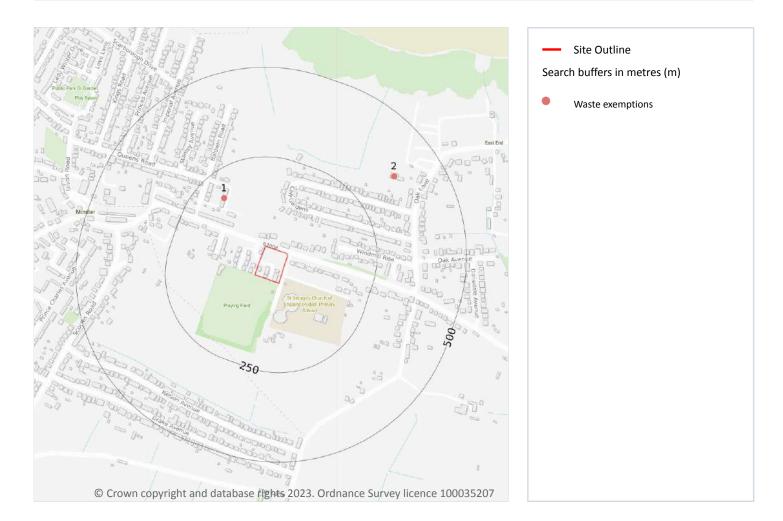






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3 Waste and landfill



3.1 Active or recent landfill

Records within 500m

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

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.





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3.3 Historical landfill (LA/mapping records)

Records within 500m

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

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

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

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

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 23 >

ID	Location	Site	Reference	Category	Sub-Category	Description
1	177m NW	South Leas Farm Lower Road SHEERNESS Kent ME12 3SW	EPR/DF0934Y N/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction





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ID	Location	Site	Reference	Category	Sub-Category	Description
2	369m NE	-	WEX269985	Using waste exemption	Not on a farm	Use of waste in construction

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

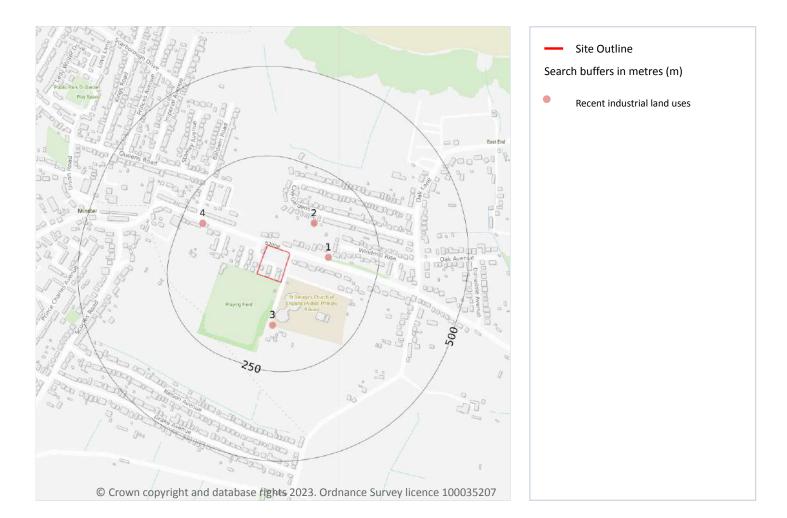






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4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 26 >

ID	Location	Company	Address	Activity	Category
1	108m E	Electricity Sub Station	Kent, ME12	Electrical Features	Infrastructure and Facilities
2	108m NE	Electricity Sub Station	Kent, ME12	Electrical Features	Infrastructure and Facilities
3	122m S	Electricity Sub Station	Kent, ME12	Electrical Features	Infrastructure and Facilities







ID	Location	Company	Address	Activity	Category
4	191m NW	Electricity Sub Station	Kent, ME12	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0				
Open, closed, under development and obsolete petrol stations. This data is sourced from Experian.					
4.3 Electricity cables					
4.3 Electricity cables					
4.3 Electricity cables Records within 500m	0				

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

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

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

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

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

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

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

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.

This data is sourced from Local Authority records.





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4.12 Radioactive Substance Authorisations

Records within 500m

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

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

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

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

Records within 500m

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

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.





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4.17 List 2 Dangerous Substances

Records within 500m

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

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

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

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

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.





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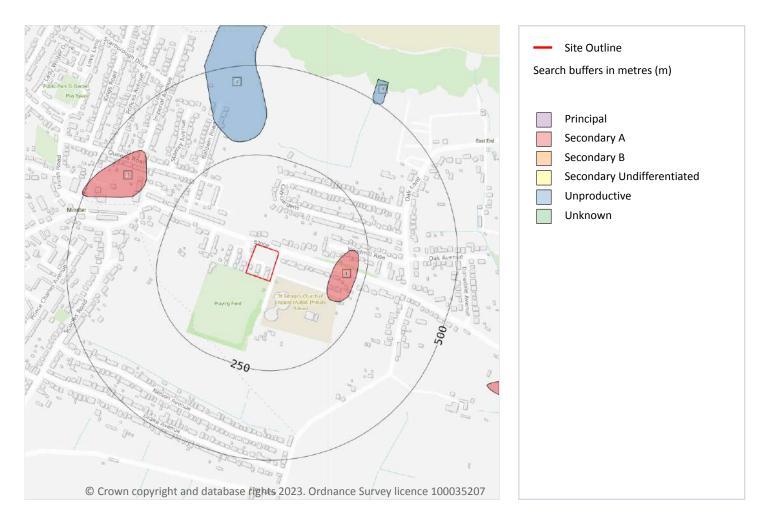
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5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on page 31 >

ID	Location	Designation	Description
1	157m E	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
2	290m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow







ID	Location	Designation	Description
3	354m NW	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
4	496m NE	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.

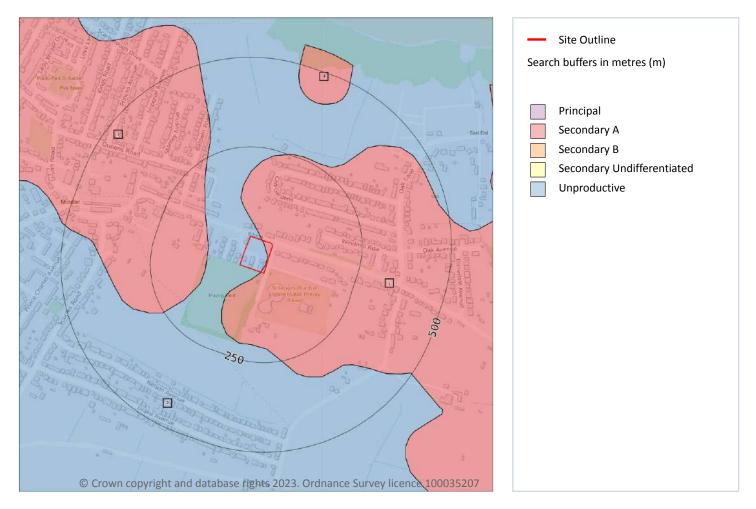






Ref: CMAPS-CM-1136987-61952-221123EDRGEO Your ref: CMAPS-CM-1136987-61952-221123 Grid ref: 596061 172807

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on page 33 >

ID	Location	Designation	Description
1	On site	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
2	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow







ID	Location	Designation	Description
3	94m W	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
4	412m 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

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

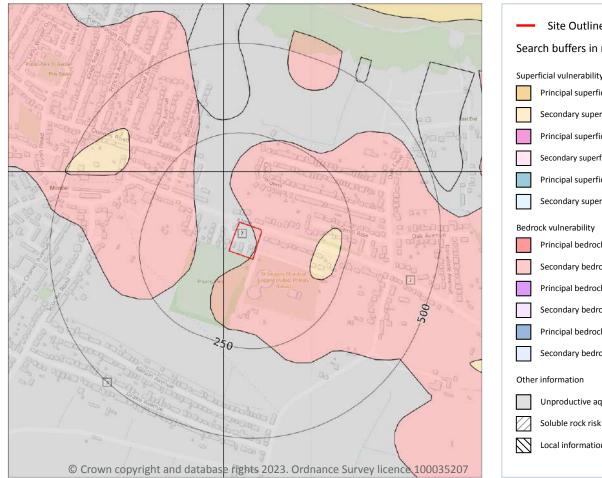






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Groundwater vulnerability





5.3 Groundwater vulnerability

Records within 50m

3

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 35 >







ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Mixed
2	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed
3	14m SW	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock	Leaching class: Low Infiltration value: >70% Dilution value: <300mm/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

5.5 Groundwater vulnerability- local information

Records on site

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 <u>enquiries@environment-agency.gov.uk</u> 7.

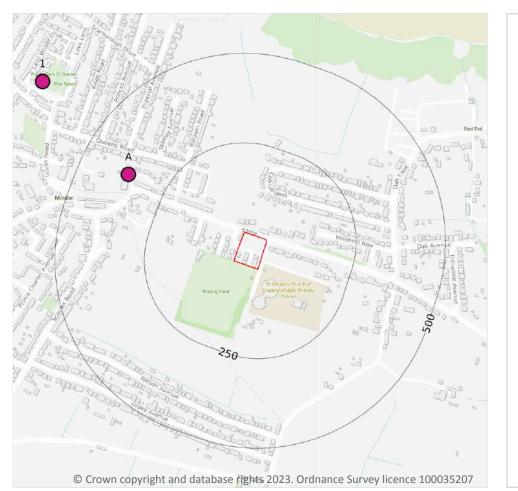
This data is sourced from the British Geological Survey and the Environment Agency.





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Abstractions and Source Protection Zones





5.6 Groundwater abstractions

Records within 2000m

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 37 >







ID	Location	Details	
A	361m NW	Status: Historical Licence No: 07/033 Details: Water Bottling Direct Source: Southern Region Groundwater Point: WELL IN MINSTER,SHEPPEY Data Type: Point Name: Ranson Easting: 595720 Northing: 173020	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 04/04/2002 Version End Date: -
1	703m NW	Status: Historical Licence No: 07/029 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Southern Region Groundwater Point: POINT A AT SHEPPEY HOSPITAL Data Type: Point Name: Thames Gateway NHS Trust Easting: 595480 Northing: 173280	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 31/03/2001 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

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

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.

Features are displayed on the Abstractions and Source Protection Zones map on page 37 >





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Ref: CMAPS-CM-1136987-61952-221123EDRGEO Your ref: CMAPS-CM-1136987-61952-221123 Grid ref: 596061 172807

ID	Location	Details	
А	361m NW	Status: Historical Licence No: 07/033 Details: Water Bottling Direct Source: Southern Region Groundwater Point: WELL IN MINSTER,SHEPPEY Data Type: Point Name: Ranson Easting: 595720 Northing: 173020	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 04/04/2002 Version End Date: -

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

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.

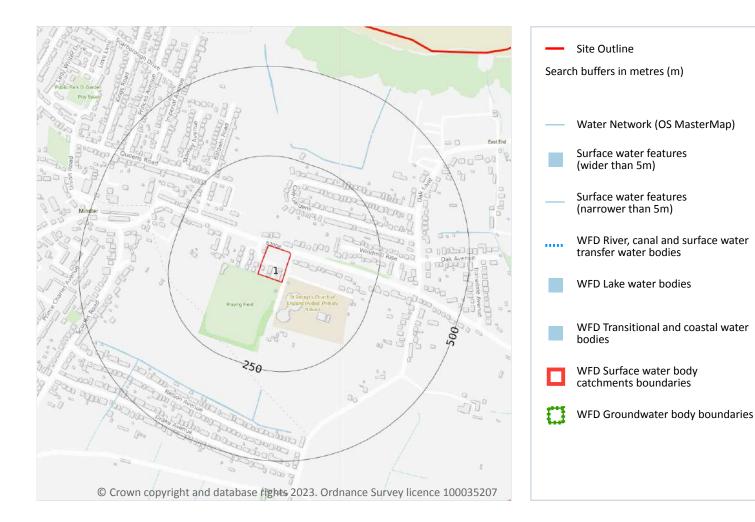






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6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m

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

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.





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This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

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 40 >

ID	Location	Туре	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	Coastal Catchment	Not part of a river WB catchment	124	White Drain and Lakes	North Kent

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

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 the sea

Records within 50m

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; 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). The risk categories for FRAW for the sea are; Very low (less than 0 requal to 1 in 30 but greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 1000 chance), Medium (less than 1 in 200 but greater than or equal to 1 in 1000 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance), Medium (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 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

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

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.





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7.4 Areas Benefiting from Flood Defences

Records within 250m

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

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

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

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.





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8 Surface water flooding





8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 30 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 45 >

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	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.







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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 47 >

This data is sourced from Ambiental Risk Analytics.

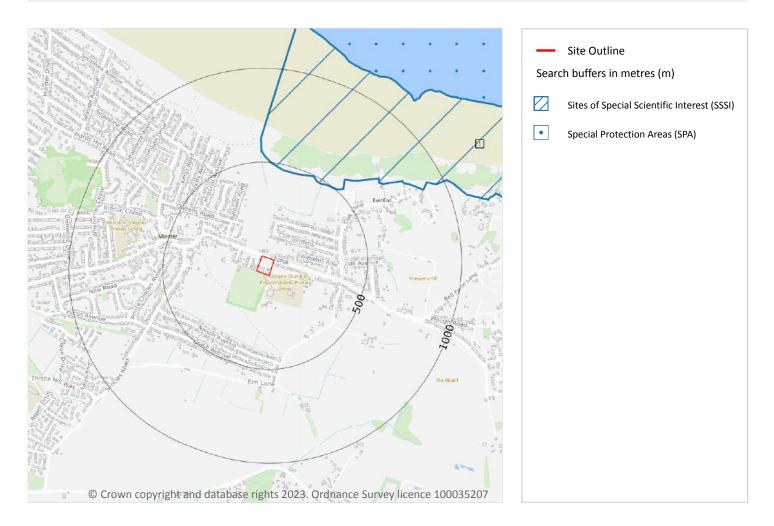






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10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

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 renotified 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 48 >

ID	Location	Name	Data source
1	470m N	Sheppey Cliffs and Foreshore	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

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

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

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.

Features are displayed on the Environmental designations map on page 48 >

ID	Location	Name	Species of interest	Habitat description	Data source
2	1121m NE	Outer Thames Estuary	Red-throated diver; Common tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes; Marine areas, Sea inlets	Natural England
-	1459m N	Outer Thames Estuary	Red-throated diver; Common tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes; Marine areas, Sea inlets	Natural England

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



Contact us with any questions at: <u>info@groundsure.com</u> ∧ 01273 257 755



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10.5 National Nature Reserves (NNR)

Records within 2000m

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

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.

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

10.7 Designated Ancient Woodland

Records within 2000m

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.

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

10.8 Biosphere Reserves

Records within 2000m

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.





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10.9 Forest Parks

Records within 2000m

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

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

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

Recor	ds v	vithin	2000m	

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

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.





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10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

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

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

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These area 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.

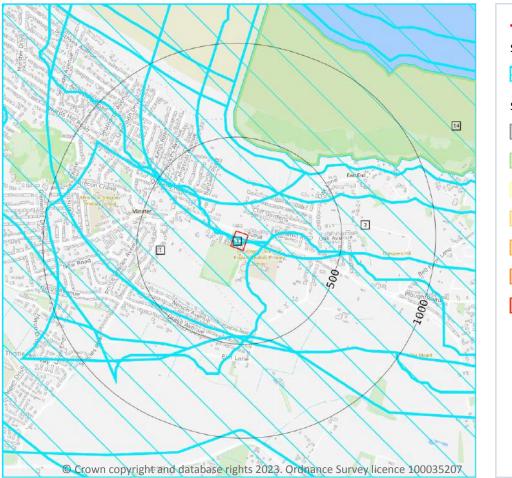






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SSSI Impact Zones and Units





10.17 SSSI Impact Risk Zones

Records on site

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 53 >







ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. 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. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m ² , slurry lagoons & digestate stores > 200m ² , manure stores > 250t). 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 Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 20m ³ /day to ground (ie to seep away) or to surface water, such as a beck or stream Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m ² or any development needing its own water supply Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.
2	On site	Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. 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. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores). Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m ² or any development needing its own water supply Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.







ID	Location	Type of developments requiring consultation
3	On site	Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. 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. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m ² , slurry lagoons & digestate stores > 200m ² , manure stores > 250t). 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 Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m ² or any development needing its own water supply Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

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 53 >

ID:	14
Location:	470m N
SSSI name:	Sheppey Cliffs and Foreshore
Unit name:	Tr00 To Royal Oak Point
Broad habitat:	Earth Heritage
Condition:	Favourable
Reportable features:	

Feature name	Feature condition	Date of assessment	
EC - Aves	Not Recorded	01/01/1900	
EC - Mesozoic - Tertiary Fish/Amphibia	Not Recorded	01/01/1900	







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Feature name	Feature condition	Date of assessment
EC - Tertiary Palaeobotany	Not Recorded	01/01/1900
EC - Tertiary Reptilia	Not Recorded	01/01/1900
IA - Mass Movement	Favourable	05/11/2021

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

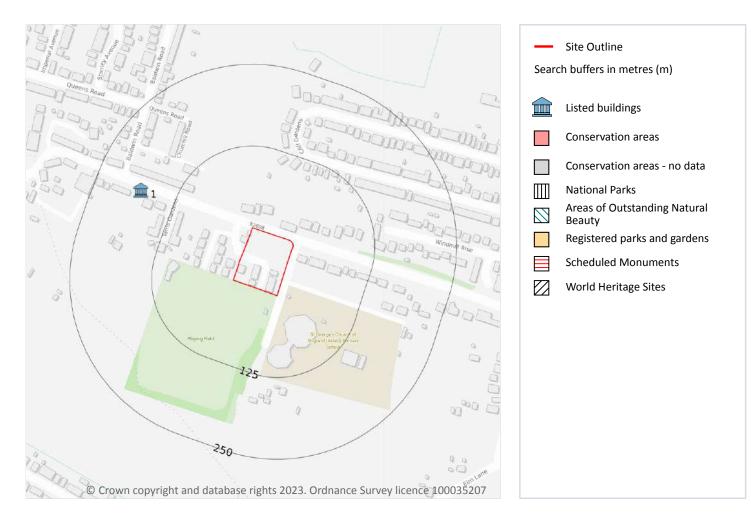






Ref: CMAPS-CM-1136987-61952-221123EDRGEO Your ref: CMAPS-CM-1136987-61952-221123 Grid ref: 596061 172807

11 Visual and cultural designations



11.1 World Heritage Sites

Records within 250m

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.







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11.2 Area of Outstanding Natural Beauty

Records within 250m

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

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 wellbeing 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

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 57 >

ID	Location	Name	Grade	Reference Number	Listed date
1	180m NW	49, Chapel Street	Ш	1258068	30/06/1978

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





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11.5 Conservation Areas

Records within 250m

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.

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

11.6 Scheduled Ancient Monuments

Records within 250m

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 Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

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 Historic England, Cadw and Historic Environment Scotland.



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12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

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 60 >

ID	Location	Classification	Description
2	On site	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.







ID	Location	Classification	Description
3	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
5	50m W	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
7	214m SE	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
8	234m W	Urban	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

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

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

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.





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12.5 Countryside Stewardship Schemes

Records within 250m

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.

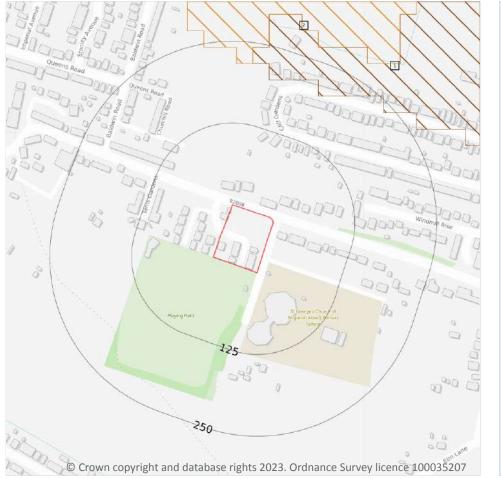


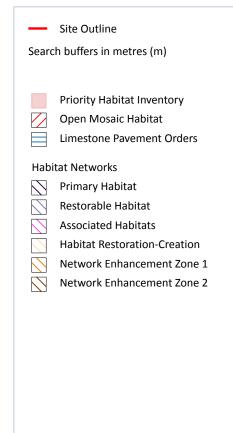




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13 Habitat designations





13.1 Priority Habitat Inventory

Records within 250m

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

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.

Features are displayed on the Habitat designations map on page 63 >





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ID	Location	Туре	Habitat
1	199m N	Network Enhancement Zone 2	Not specified
2	216m N	Network Enhancement Zone 1	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

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

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.



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14 Geology 1:10,000 scale - Availability



14.1 10k Availability

Records within 500m	1
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provide the site of the s	rovided

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 65 >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	No coverage	No coverage	No coverage	ΝοϹον







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

14.2 Artificial and made ground (10k)

Records within 500m

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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.







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Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

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

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.







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Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m

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.

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

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.

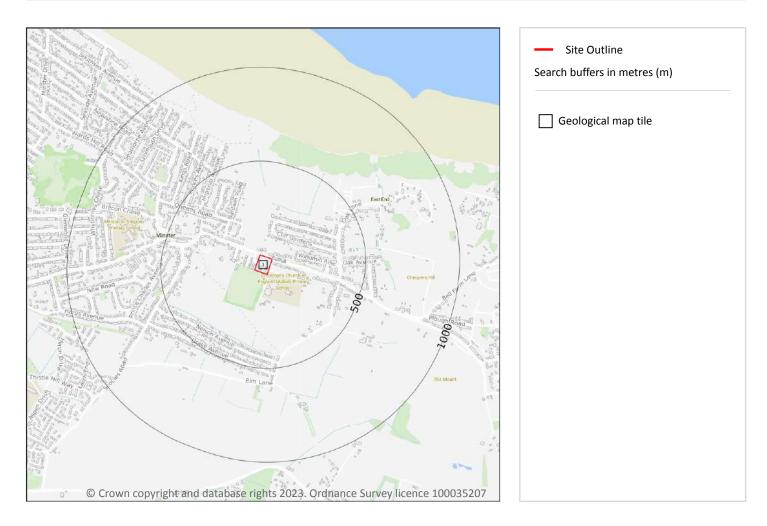






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15 Geology 1:50,000 scale - Availability



15.1 50k Availability

Records within 500m

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 69 >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW272_chatham_v4

This data is sourced from the British Geological Survey.







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

15.2 Artificial and made ground (50k)

Records within 500m

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.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

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).







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Geology 1:50,000 scale - Superficial



15.4 Superficial geology (50k)

Records within 500m

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.

Features are displayed on the Geology 1:50,000 scale - Superficial map on page 71 >

ID	Location	LEX Code	Description	Rock description
1	157m E	HEAD- XVSZC	HEAD	GRAVEL, SAND, SILT AND CLAY
2	290m N	HEAD-XCZ	HEAD	CLAY AND SILT
3	354m NW	HEAD- XVSZC	HEAD	GRAVEL, SAND, SILT AND CLAY







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ID	Location	LEX Code	Description	Rock description
4	496m NE	HEAD-XCZ	HEAD	CLAY AND SILT

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

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

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

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.



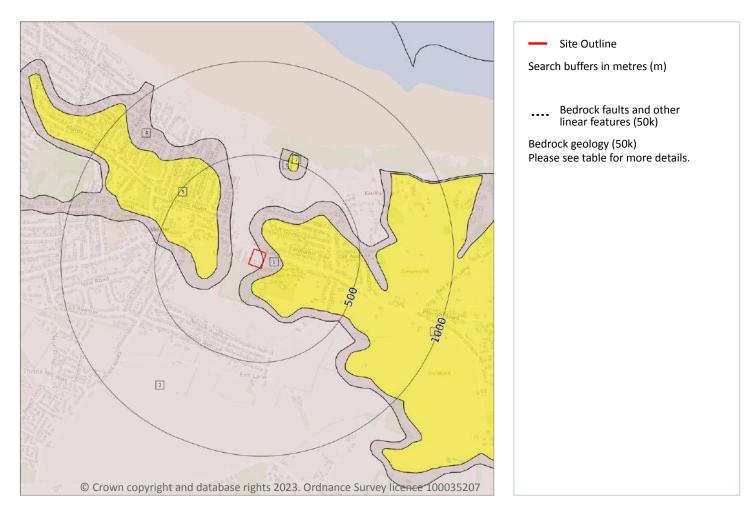


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Geology 1:50,000 scale - Bedrock



15.8 Bedrock geology (50k)

Records within 500m

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 73 >

ID	Location	LEX Code	Description	Rock age
1	On site	CLGB-XCZS	CLAYGATE MEMBER - CLAY, SILT AND SAND	YPRESIAN
2	On site	LC-XCZ	LONDON CLAY FORMATION - CLAY AND SILT	YPRESIAN
3	45m NE	BGS-S	BAGSHOT FORMATION - SAND	YPRESIAN
4	94m W	CLGB-XCZS	CLAYGATE MEMBER - CLAY, SILT AND SAND	YPRESIAN







3

ID	Location	LEX Code	Description	Rock age
5	168m W	BGS-S	BAGSHOT FORMATION - SAND	YPRESIAN
6	412m N	CLGB-XCZS	CLAYGATE MEMBER - CLAY, SILT AND SAND	YPRESIAN
7	458m N	BGS-S	BAGSHOT FORMATION - SAND	YPRESIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

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	Low	Very Low
On site	Mixed	High	Very Low
45m NE	Intergranular	High	High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m 0	
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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.

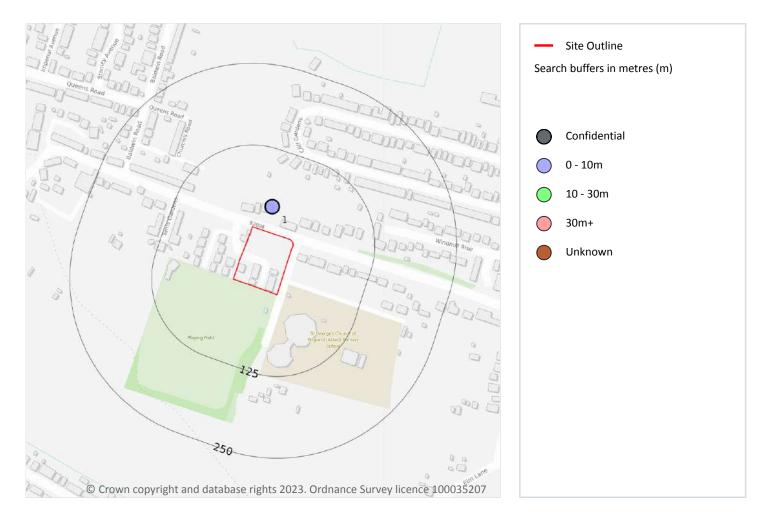






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16 Boreholes



16.1 BGS Boreholes

Records within 250m

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 75 >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	39m N	596074 172890	26 CHEQUERS ROAD MINSTER ON SEA	2.5	Ν	20921765

This data is sourced from the British Geological Survey.







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17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

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 76 >

Location	Hazard rating	Details		
On site	Moderate	Ground conditions predominantly high plasticity.		
45m NE	Negligible	Ground conditions predominantly non-plastic.		

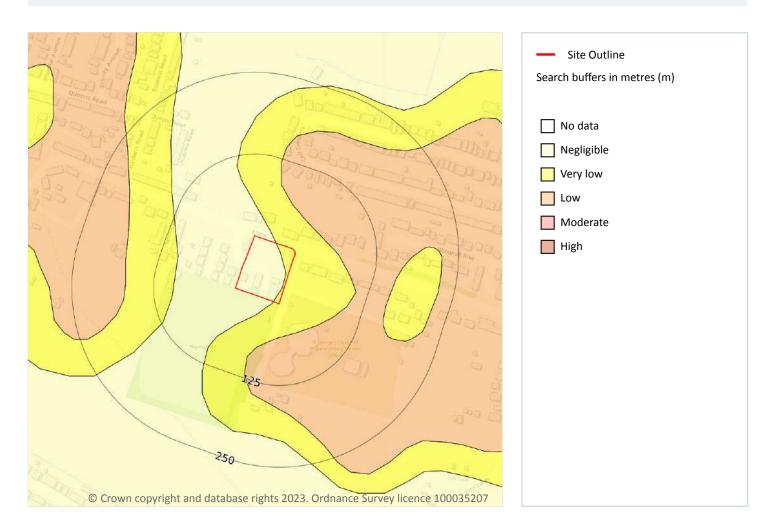
This data is sourced from the British Geological Survey.







Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

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 77 >

Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.







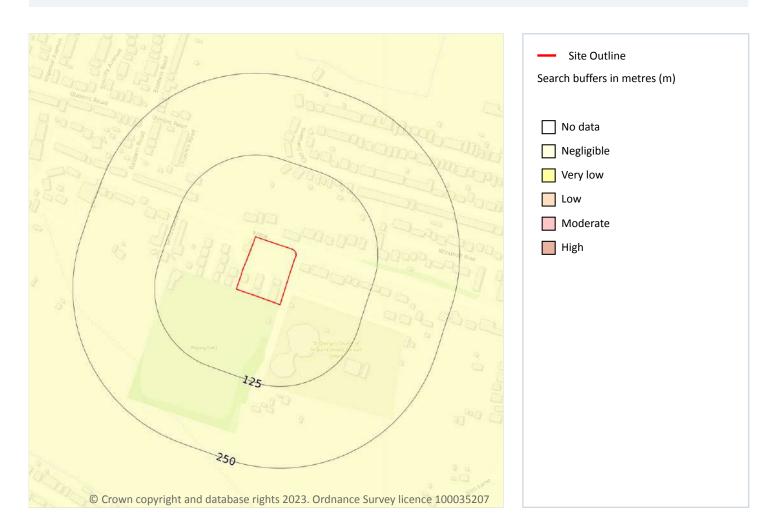
Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
45m NE	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.







Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

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 79 >

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

This data is sourced from the British Geological Survey.







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Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

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 80 >

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

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 81 >

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.

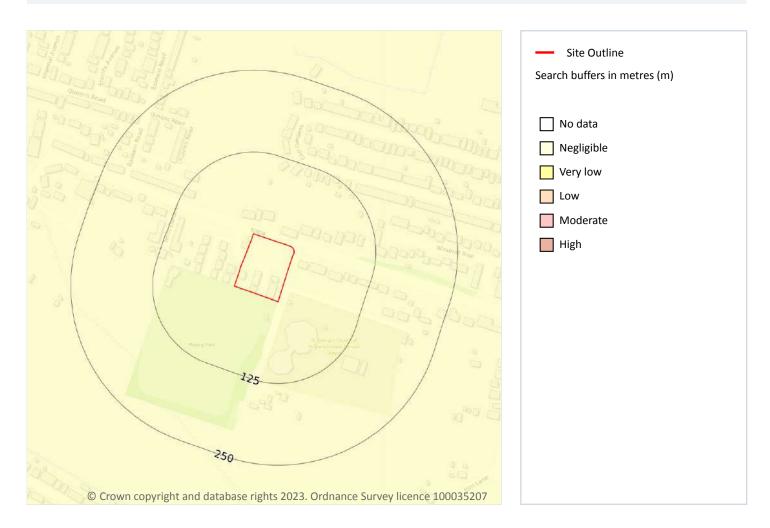
This data is sourced from the British Geological Survey.







Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

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 82 >

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.







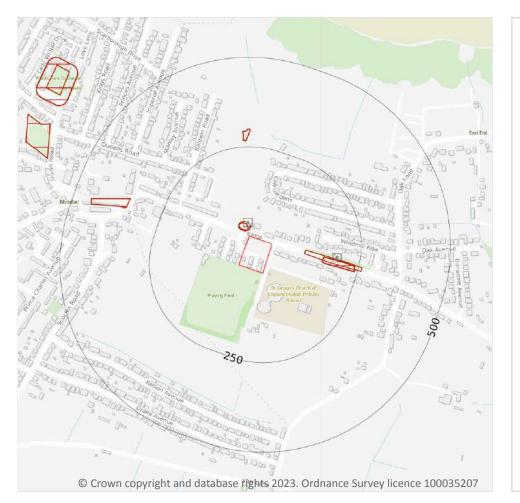






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18 Mining and ground workings





18.1 BritPits

Records within 500m

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.







18.2 Surface ground workings

Records within 250m

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 and ground workings map on page 84 >

ID	Location	Land Use	Year of mapping	Mapping scale	
А	17m N	Unspecified Heap	1888	1:10560	
А	17m N	Unspecified Heap	1906	1:10560	
А	17m N	Unspecified Heap	1896	1:10560	
В	94m E	Cuttings	1888	1:10560	
В	147m E	Cuttings	1938	1:10560	
В	147m E	Cuttings	1931	1:10560	
В	147m E	Cuttings	1906	1:10560	
В	147m E	Cuttings	1896	1:10560	

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records v	vithin 100)0m			0
			6	 C 1	

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.







18.5 Historical Mineral Planning Areas

Records within 500m

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

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 JPB mining areas

Records on site

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.





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18.9 Researched mining

Records within 500m

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site

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.





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18.14 Gypsum areas

Records on site0Generalised areas that may be affected by gypsum extraction.
This data is sourced from British Gypsum.18.15 Tin mining18.15 Tin mining0Records on site0Generalised areas that may be affected by historical tin mining.
This data is sourced from Groundsure.1

18.16 Clay mining

Records on site

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 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

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 Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

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 Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.





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This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

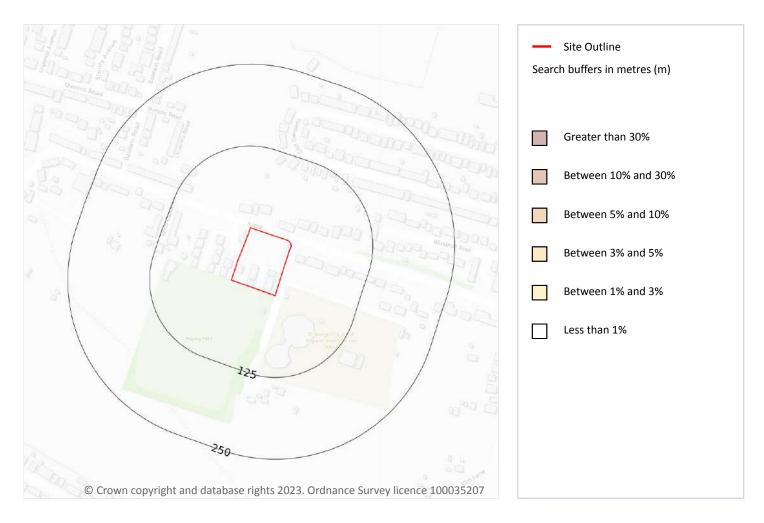






Ref: CMAPS-CM-1136987-61952-221123EDRGEO Your ref: CMAPS-CM-1136987-61952-221123 Grid ref: 596061 172807

20 Radon



20.1 Radon

Records on site

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The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on page 91 >

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







This data is sourced from the British Geological Survey and UK Health Security Agency.







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21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

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	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
15m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
45m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

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).







21.3 BGS Measured Urban Soil Chemistry

Records within 50m

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.







22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m

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.

22.2 Underground railways (Non-London)

Records within 250m

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.

22.3 Railway tunnels

Records within 250m

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

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.

22.5 Royal Mail tunnels

Records within 250m

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.





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This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

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.

22.9 Crossrail 2

Records within 500m

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.

22.10 HS2

Records within 500m

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.





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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 <u>https://www.groundsure.com/sources-reference</u> \nearrow .

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <u>www.groundsure.com/terms-and-conditions-april-2023/</u> 7.





APPENDIX 6

CONCEPTUAL MODEL

