



WALTON COMMON, FORT ROAD, TILBURY, THURROCK, RM18 8UL

Order Details

Date: 28/02/2024

Your ref: PO24-0140 794-ENV-EPC-20502

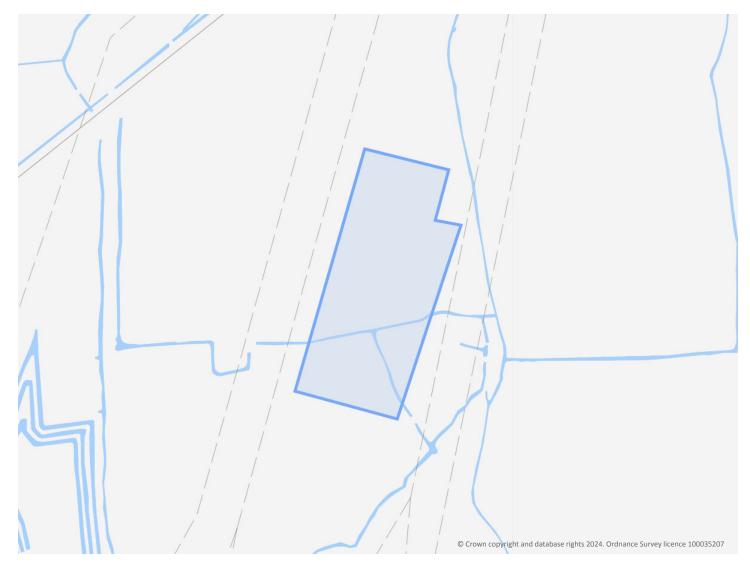
Our Ref: GS-DPX-4AY-IW7-RTA

Site Details

Location: 566397 176739

Area: 3.29 ha

Authority: Thurrock Council **↗**



Summary of findings

Aerial image <u>p. 2</u> >

p. 9 >

OS MasterMap site plan

groundsure.com/insightuserguide ↗ p.14 >





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Grid ref: 566397 176739

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> >	<u>Historical industrial land uses</u> >	1	1	3	6	-
16	1.2	Historical tanks	0	0	0	0	-
16	1.3	Historical energy features	0	0	0	0	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
17	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>18</u> >	<u>2.1</u> >	<u>Historical industrial land uses</u> >	1	1	2	14	-
19	2.2	Historical tanks	0	0	0	0	-
19	2.3	Historical energy features	0	0	0	0	-
20	2.4	Historical petrol stations	0	0	0	0	-
20	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
<u>21</u> >	<u>3.1</u> >	Active or recent landfill >	0	0	2	2	
_	<u> </u>	Tours of resemblation.	U	O	2	3	-
22	3.2	Historical landfill (BGS records)	0	0	0	0	-
							-
22	3.2	Historical landfill (BGS records)	0	0	0	0	-
22 23	3.2	Historical landfill (BGS records) Historical landfill (LA/mapping records)	0	0	0	0	-
22 23 <u>23</u> >	3.2 3.3 <u>3.4</u> >	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) >	0 0	0 0	0 0	0 0 1	-
22 23 23 > 23	3.2 3.3 <u>3.4</u> > 3.5	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) > Historical waste sites	0 0 0	0 0 0	0 0 0	0 0 1	-
22 23 23 > 23 >	3.2 3.3 <u>3.4</u> > 3.5 <u>3.6</u> >	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) > Historical waste sites Licensed waste sites >	0 0 0 0	0 0 0 0	0 0 0 0	0 0 1 0	- - - - - - 500-2000m
22 23 23 > 23 > 23 > 25 >	3.2 3.3 3.4 > 3.5 3.6 > 3.7 >	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) > Historical waste sites Licensed waste sites > Waste exemptions >	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 1 0 5	- - - - - 500-2000m
22 23 > 23 > 23 > 23 > Page	3.2 3.3 3.4 > 3.5 3.6 > 3.7 > Section	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) > Historical waste sites Licensed waste sites > Waste exemptions > Current industrial land use >	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 5 50-250m	0 0 1 0 5	- - - - - 500-2000m
22 23 > 23 > 23 > 25 > Page 27 >	3.2 3.3 3.4 > 3.5 3.6 > 3.7 > Section 4.1 >	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) > Historical waste sites Licensed waste sites > Waste exemptions > Current industrial land use > Recent industrial land uses >	0 0 0 0 0 0 On site	0 0 0 0 0 0 0-50m	0 0 0 0 5 50-250m	0 0 1 0 5 0 250-500m	- - - - - 500-2000m
22 23 23 > 23 > 23 > 25 > Page 27 > 28	3.2 3.3 3.4 > 3.5 3.6 > 3.7 > Section 4.1 > 4.2	Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) > Historical waste sites Licensed waste sites > Waste exemptions > Current industrial land use > Recent industrial land uses > Current or recent petrol stations	0 0 0 0 0 0 On site	0 0 0 0 0 0-50m	0 0 0 0 5 50-250m	0 0 1 0 5 0 250-500m	- - - - - - 500-2000m





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30	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
30	4.7	Regulated explosive sites	0	0	0	0	-
30	4.8	Hazardous substance storage/usage	0	0	0	0	-
30	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
31	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
31	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
31	4.12	Radioactive Substance Authorisations	0	0	0	0	-
31	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
31	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
32	4.15	Pollutant release to public sewer	0	0	0	0	-
32	4.16	List 1 Dangerous Substances	0	0	0	0	-
32	4.17	List 2 Dangerous Substances	0	0	0	0	-
32	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
32	4.19	Pollution inventory substances	0	0	0	0	-
33	4.20	Pollution inventory waste transfers	0	0	0	0	-
33	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology</u> >	On site	0-50m	50-250m	250-500m	500-2000m
Page <u>34</u> >	Section 5.1 >	Hydrogeology > Superficial aquifer >		0-50m within 500m		250-500m	500-2000m
			Identified ()	250-500m	500-2000m
<u>34</u> >	<u>5.1</u> >	Superficial aquifer >	Identified (within 500m)	250-500m	500-2000m
34 > 35 >	<u>5.1</u> > <u>5.2</u> >	Superficial aquifer > Bedrock aquifer >	Identified (within 500m within 500m within 50m))	250-500m	500-2000m
34 > 35 > 36 >	5.1 > 5.2 > 5.3 >	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability >	Identified (Identified (Identified (within 500m within 500m within 50m) within 0m))	250-500m	500-2000m
34 > 35 > 36 > 37 >	5.1 > 5.2 > 5.3 > 5.4 >	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk >	Identified (Identified (Identified (Identified (within 500m within 500m within 50m) within 0m))	250-500m	500-2000m
34 > 35 > 36 > 37 >	5.1 > 5.2 > 5.3 > 5.4 > 5.5	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk > Groundwater vulnerability- local information	Identified (Identified (Identified (Identified (None (with	within 500m within 500m within 50m) within 0m) in 0m))		
34 > 35 > 36 > 37 > 37 > 38 >	5.1 > 5.2 > 5.3 > 5.4 > 5.5 > 5.6 >	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk > Groundwater vulnerability- local information Groundwater abstractions >	Identified (Identified (Identified (Identified (None (with	within 500m within 500m within 50m) within 0m) in 0m)	0	0	13
34 > 35 > 36 > 37 > 37 > 38 >	5.1 > 5.2 > 5.3 > 5.4 > 5.5 > 5.6 > 5.7	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk > Groundwater vulnerability- local information Groundwater abstractions > Surface water abstractions	Identified (Identified (Identified (Identified (None (with	within 500m within 500m within 50m) within 0m) in 0m)	0	0	13
34 > 35 > 36 > 37 > 37 > 41 42 >	5.1 > 5.2 > 5.3 > 5.4 > 5.5 > 5.6 > 5.7 > 5.8 >	Superficial aquifer > Bedrock aquifer > Groundwater vulnerability > Groundwater vulnerability- soluble rock risk > Groundwater vulnerability- local information Groundwater abstractions > Surface water abstractions Potable abstractions >	Identified (Identified (Identified (Identified (None (with 0 0 0	within 500m within 500m within 50m) within 0m) in 0m) 0 0	0 0	0 0	13
34 > 35 > 36 > 37 > 37 > 41 42 > 42 >	5.1 > 5.2 > 5.3 > 5.4 > 5.5 > 5.6 > 5.7 > 5.8 > 5.9 >	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 >	Identified (Identified (Identified (Identified (Identified (None (with 0 0 0 1	within 500m within 500m within 50m) within 0m) in 0m) 0 0 0	0 0 0	0 0 0	13
34 > 35 > 36 > 37 > 37 > 31 > 41 42 > 42 > 42 >	5.1 > 5.2 > 5.3 > 5.4 > 5.5 > 5.6 > 5.7 > 5.8 > 5.9 > 5.10	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)	Identified (Identified (Identified (Identified (Identified (None (with 0 0 1 0	within 500m within 500m within 50m) within 0m) in 0m) 0 0 0 0	0 0 0	0 0 0 0	13 0 1





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<u>46</u> >	<u>6.2</u> >	<u>Surface water features</u> >	1	2	9	-	-
<u>46</u> >	<u>6.3</u> >	WFD Surface water body catchments >	1	-	-	-	-
47	6.4	WFD Surface water bodies	0	0	0	-	-
<u>47</u> >	<u>6.5</u> >	WFD Groundwater bodies >	1	-	-	_	_
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
<u>48</u> >	<u>7.1</u> >	Risk of flooding from rivers and the sea >	Low (withir	1 50m)			
<u>49</u> >	<u>7.2</u> >	<u>Historical Flood Events</u> >	1	0	0	-	-
49	7.3	Flood Defences	0	0	0	-	-
<u>49</u> >	<u>7.4</u> >	<u>Areas Benefiting from Flood Defences</u> >	1	1	0	-	-
<u>50</u> >	<u>7.5</u> >	Flood Storage Areas >	0	0	1	-	-
<u>51</u> >	<u>7.6</u> >	Flood Zone 2 >	Identified (within 50m)			
<u>52</u> >	<u>7.7</u> >	Flood Zone 3 >	Identified (within 50m)			
Page	Section	Surface water flooding >					
<u>53</u> >	<u>8.1</u> >	Surface water flooding >	1 in 30 year	r, 0.1m - 0.3r	m (within 50	m)	
Dogo	Section	Croundwater flooding					
Page	Section	Groundwater flooding >					
55 >	9.1 >	Groundwater flooding >	High (withi	n 50m)			
			High (withi	n 50m) _{0-50m}	50-250m	250-500m	500-2000m
<u>55</u> >	<u>9.1</u> >	Groundwater flooding >			50-250m	250-500m	500-2000m
<u>55</u> >	<u>9.1</u> >	Groundwater flooding > Environmental designations >	On site	0-50m			
55 > Page	9.1 > Section 10.1	Groundwater flooding > Environmental designations > Sites of Special Scientific Interest (SSSI)	On site	0-50m	0	0	0
55 > Page 56 57	9.1 > Section 10.1 10.2	Groundwater flooding > Environmental designations > Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites)	On site 0	0-50m 0	0	0	0
55 > Page 56 57	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 0 0 0	0-50m 0 0	0 0	0 0	0 0
55 > Page 56 57 57	9.1 > Section 10.1 10.2 10.3 10.4	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	0 0 0	0 0 0	0 0 0
55 > Page 56 57 57 57	9.1 > Section 10.1 10.2 10.3 10.4 10.5	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	0-50m 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
55 > Page 56 57 57 57 57	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6	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)	On site 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
55 > Page 56 57 57 57 58 58	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7	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	0-50m 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0
55 > Page 56 57 57 57 58 58 58	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8	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 Biosphere Reserves	On site 0 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
55 > Page 56 57 57 57 58 58 58 58	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9	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 Biosphere Reserves Forest Parks	On site 0 0 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0
55 > Page 56 57 57 57 58 58 58 58 59	9.1 > Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 10.10	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 Biosphere Reserves Forest Parks Marine Conservation Zones	On site 0 0 0 0 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0 0 0 0 0 0			





Groundsure
LOCATION INTELLIGENCE

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59	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
60	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
60	10.15	Nitrate Sensitive Areas	0	0	0	0	0
60	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
<u>61</u> >	<u>10.17</u> >	SSSI Impact Risk Zones >	1	-	-	-	-
62	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
63	11.1	World Heritage Sites	0	0	0	-	-
63	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
63	11.3	National Parks	0	0	0	-	-
63	11.4	Listed Buildings	0	0	0	-	-
64	11.5	Conservation Areas	0	0	0	-	-
64	11.6	Scheduled Ancient Monuments	0	0	0	-	-
64	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
<u>65</u> >	<u>12.1</u> >	Agricultural Land Classification >	Non Agricu	ltural (withir	n 250m)		
<u>66</u> >	<u>12.2</u> >	Open Access Land >	3	0	2	-	-
66	12.3	Tree Felling Licences	0	0	0	-	-
67	12.4	Environmental Stewardship Schemes	0	0	0	-	-
67	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	<u>Habitat designations</u> >	On site	0-50m	50-250m	250-500m	500-2000m
<u>68</u> >	<u>13.1</u> >	Priority Habitat Inventory >	0	0	1	-	-
<u>69</u> >	<u>13.2</u> >	<u>Habitat Networks</u> >	0	0	1	-	-
69	13.3	Open Mosaic Habitat	0	0	0	-	-
69	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	<u>Geology 1:10,000 scale</u> >	On site	0-50m	50-250m	250-500m	500-2000m
<u>70</u> >	<u>14.1</u> >	10k Availability >	Identified (within 500m)		
<u>71</u> >	<u>14.2</u> >	Artificial and made ground (10k) >	0	0	1	0	-
<u>72</u> >	<u>14.3</u> >	Superficial geology (10k) >	1	0	0	0	-





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73	14.4	Landslip (10k)	0	0	0	0	-
<u>74</u> >	<u>14.5</u> >	Bedrock geology (10k) >	1	0	0	0	-
75	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	<u>Geology 1:50,000 scale</u> >	On site	0-50m	50-250m	250-500m	500-2000m
<u>76</u> >	<u>15.1</u> >	50k Availability >	Identified (within 500m)		
<u>77</u> >	<u>15.2</u> >	Artificial and made ground (50k) >	0	0	1	0	-
78	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<u>79</u> >	<u>15.4</u> >	Superficial geology (50k) >	1	0	0	0	-
<u>80</u> >	<u>15.5</u> >	Superficial permeability (50k) >	Identified (within 50m)			
80	15.6	Landslip (50k)	0	0	0	0	-
80	15.7	Landslip permeability (50k)	None (with	in 50m)			
<u>81</u> >	<u>15.8</u> >	Bedrock geology (50k) >	1	0	0	0	-
<u>82</u> >	<u>15.9</u> >	Bedrock permeability (50k) >	Identified (within 50m)			
82	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
83	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence >					
<u>84</u> >	<u>17.1</u> >	Shrink swell clays >	Low (withir	n 50m)			
<u>85</u> >	<u>17.2</u> >	Running sands >	Low (withir	n 50m)			
<u>86</u> >	<u>17.3</u> >	Compressible deposits >	High (withi	n 50m)			
<u>87</u> >	<u>17.4</u> >	Collapsible deposits >	Negligible (within 50m)			
<u>88</u> >	<u>17.5</u> >	<u>Landslides</u> >	Very low (v	vithin 50m)			
<u>89</u> >	<u>17.6</u> >	Ground dissolution of soluble rocks >	Negligible (within 50m)			
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
91	18.1	BritPits	0	0	0	0	-
<u>92</u> >	<u>18.2</u> >	Surface ground workings >	0	0	1	-	-
92	18.3	Underground workings	0	0	0	0	0
92	18.4	Underground mining extents	0	0	0	0	-
92	18.5	Historical Mineral Planning Areas	0	0	0	0	-





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<u>93</u> >	<u>18.6</u> >	Non-coal mining >	0	0	0	0	3
93	18.7	JPB mining areas	None (with	in 0m)			
93	18.8	The Coal Authority non-coal mining	0	0	0	0	-
94	18.9	Researched mining	0	0	0	0	-
94	18.10	Mining record office plans	0	0	0	0	-
94	18.11	BGS mine plans	0	0	0	0	-
94	18.12	Coal mining	None (with	in 0m)			
94	18.13	Brine areas	None (with	in 0m)			
95	18.14	Gypsum areas	None (with	in 0m)			
95	18.15	Tin mining	None (with	in 0m)			
95	18.16	Clay mining	None (with	in 0m)			
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
96	19.1	Natural cavities	0	0	0	0	-
96	19.2	Mining cavities	0	0	0	0	0
96	19.3	Reported recent incidents	0	0	0	0	-
96	19.4	Historical incidents	0	0	0	0	-
97	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
<u>98</u> >	<u>20.1</u> >	Radon >	Less than 1	% (within 0n	n)		
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
<u>100</u> >	<u>21.1</u> >	BGS Estimated Background Soil Chemistry >	1	1	-	-	-
<u>100</u> >	<u>21.2</u> >	BGS Estimated Urban Soil Chemistry >	2	3	-	-	-
101	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
102	22.1	Underground railways (London)	0	0	0	-	-
102	22.2	Underground railways (Non-London)	0	0	0	-	-
103	22.3	Railway tunnels	0	0	0	-	-
103	22.4	Historical railway and tunnel features	0	0	0	-	-
103	22.5	Royal Mail tunnels					





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103	22.6	Historical railways	0	0	0	-	-
<u>103</u> >	<u>22.7</u> >	Railways >	0	0	3	-	-
104	22.8	Crossrail 1	0	0	0	0	-
104	22.9	Crossrail 2	0	0	0	0	-
104	22 10	HS2	Ο	Ο	0	0	_





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Recent aerial photograph



info@groundsure.com ↗

01273 257 755

Capture Date: 31/05/2021





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Recent site history - 2015 aerial photograph



Capture Date: 30/06/2015





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

Recent site history - 2012 aerial photograph



Capture Date: 25/05/2012





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

Recent site history - 2009 aerial photograph



Capture Date: 27/09/2009





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

Recent site history - 1999 aerial photograph



info@groundsure.com ↗

01273 257 755

Capture Date: 03/09/1999

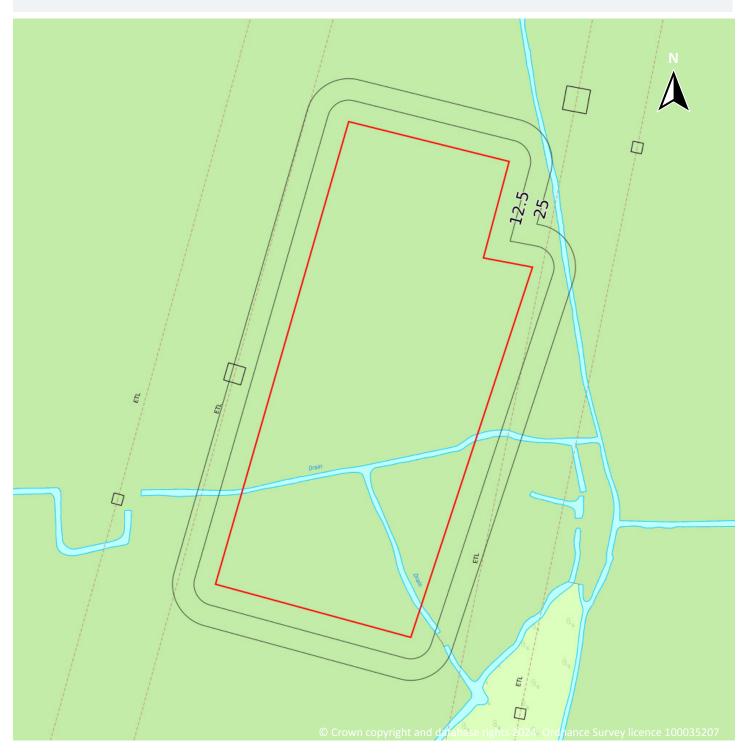




Your ref: PO24-0140 794-ENV-EPC-20502

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OS MasterMap site plan







Your ref: PO24-0140 794-ENV-EPC-20502

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1 Past land use



1.1 Historical industrial land uses

Records within 500m 11

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
1	On site	Marshes	1898	2254499





Your ref: PO24-0140 794-ENV-EPC-20502

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ID	Location	Land use	Dates present	Group ID
2	31m S	Marshes	1916	2280792
3	68m SW	Unspecified Level	1955	2162138
А	195m S	Marshes	1898 - 1899	2224429
А	195m S	Marshes	1888	2254724
4	288m W	Railway Sidings	1955 - 1991	2279110
В	317m S	Unspecified Works	1973 - 1991	2236215
5	354m SW	Railway Sidings	1973 - 1991	2236655
В	356m SW	Unspecified Works	1967	2273199
6	470m W	Unspecified Works	1973 - 1991	2175722
7	485m SE	Refuse Heap	1991	2158923

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m 0

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 0

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'.

This data is sourced from Ordnance Survey / Groundsure.





Your ref: PO24-0140 794-ENV-EPC-20502

0

Grid ref: 566397 176739

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 0

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'.

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m 0

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.





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m 18

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 18 >

ID	Location	Land Use	Date	Group ID
1	On site	Marshes	1898	2254499
2	31m S	Marshes	1916	2280792
3	68m SW	Unspecified Level	1955	2162138





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

ID	Location	Land Use	Date	Group ID
4	195m S	Marshes	1888	2254724
Α	288m W	Railway Sidings	1991	2279110
Α	288m W	Railway Sidings	1973	2279110
В	317m S	Unspecified Works	1991	2236215
В	317m S	Unspecified Works	1973	2236215
С	354m SW	Railway Sidings	1991	2236655
С	354m SW	Railway Sidings	1973	2236655
В	356m SW	Unspecified Works	1967	2273199
D	376m W	Railway Sidings	1967	2279110
D	376m W	Railway Sidings	1955	2279110
5	460m E	Marshes	1898	2224429
Е	470m W	Unspecified Works	1991	2175722
Е	470m W	Unspecified Works	1973	2175722
6	476m SE	Marshes	1888	2254724
7	485m SE	Refuse Heap	1991	2158923

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m 0

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 0

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'.

This data is sourced from Ordnance Survey / Groundsure.





Your ref: PO24-0140 794-ENV-EPC-20502

0

Grid ref: 566397 176739

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 0

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'.

This data is sourced from Ordnance Survey / Groundsure.





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

3 Waste and landfill



3.1 Active or recent landfill

Records within 500m 5

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on page-21 >

ID	Location	Details	
1	50m S	Operator: R W E nPower Plc Site Address: Tilbury B Power Station, Fort Road, Tilbury, Essex, RM18 8UJ	WML Number: 71186 EPR Reference: INT004 Landfill type: A07: Industrial Waste Landfill (Factory curtilage) Status: To PPC IPPC Reference: - EPR Number: EA/EPR/DP3498NX/A001





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

ID	Location	Details	
2	52m S	Operator: Ingrebourne Valley Ltd Site Address: Tilbury Power Station, Fort Road, West Tilbury, Tilbury, Essex, RM18 8UJ	WML Number: 0 EPR Reference: - Landfill type: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Status: Effective IPPC Reference: - EPR Number: -
3	469m E	Operator: R W E nPower Plc Site Address: Tilbury B Power Station, Fort Road, Tilbury, Essex, RM18 8UJ	WML Number: 71185 EPR Reference: INN002 Landfill type: A07: Industrial Waste Landfill (Factory curtilage) Status: To PPC IPPC Reference: - EPR Number: EA/EPR/DP3898NN/T001
4	471m E	Operator: R W E nPower plc Site Address: Tilbury B Power Station, Fort Road, Tilbury, Essex, RM18 8UJ	WML Number: 70298 EPR Reference: NAT001 Landfill type: A07: Industrial Waste Landfill (Factory curtilage) Status: To PPC IPPC Reference: - EPR Number: EA/EPR/LP3999NS/A001
С	488m SE	Operator: R W E nPower plc Site Address: Tilbury B Power Station, Fort Road, Tilbury, Essex, RM18 8UJ	WML Number: 70262 EPR Reference: NAT002 Landfill type: A07: Industrial Waste Landfill (Factory curtilage) Status: To PPC IPPC Reference: - EPR Number: EA/EPR/BP3399NM/A001

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

3.2 Historical landfill (BGS records)

Records within 500m 0

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

This data is sourced from the British Geological Survey.





Your ref: PO24-0140 794-ENV-EPC-20502

1

Grid ref: 566397 176739

3.3 Historical landfill (LA/mapping records)

Records within 500m 0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

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.

Features are displayed on the Waste and landfill map on page 21 >

ID	Location	Details		
С	487m SE	Site Address: Tilbury Power Station, East Tilbury Marshes, Tilbury, Thurrock Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Inert, Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Esso Petroleum Company and Central Electricity Generating Board Licence Holder: - First Recorded 15/02/1968 Last Recorded: -

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

3.5 Historical waste sites

Records within 500m 0

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

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

3.6 Licensed waste sites

Records within 500m 5

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

Features are displayed on the Waste and landfill map on page 21 >



WALTON COMMON, FORT ROAD, TILBURY, THURROCK, RM18 8UL

Ref: GS-DPX-4AY-IW7-RTA

Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

ID	Location	Details		
В	293m S	Site Name: Area A3, Tilbury B Power Station Site Address: Tilbury B Power Station, Fort Road, Tilbury, RM18 8UJ Correspondence Address: Tilbury B Power Station, Fort Road, Tilbury, RM18 8UJ	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: INT004 EPR reference: - Operator: Innogy Plc Waste Management licence No: 71186 Annual Tonnage: 0	Issue Date: 22/06/2001 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
В	293m S	Site Name: Area A3 Site Address: Tilbury B Power Station, Fort Road, Tilbury, RM18 8UJ Correspondence Address: Tilbury B Power Station, Fort Road, Tilbury, RM18 8UJ	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: INT004 EPR reference: - Operator: Rwe Npower Plc Waste Management licence No: 71186 Annual Tonnage: 0	Issue Date: 22/06/2001 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
В	293m S	Site Name: Area A3 Site Address: Tilbury B Power Station, Fort Road, Tilbury, Essex, RM18 8UJ Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: INT004 EPR reference: EA/EPR/DP3498NX/A001 Operator: Rwe Npower Plc Waste Management licence No: 71186 Annual Tonnage: 350000	Issue Date: 22/06/2001 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
В	293m S	Site Name: Area A3 Site Address: Tilbury B Power Station, Fort Road, Tilbury, RM18 8UJ Correspondence Address: Tilbury B Power Station, Fort Road, Tilbury, RM18 8UJ	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: INT004 EPR reference: - Operator: Innogy Plc Waste Management licence No: 71186 Annual Tonnage: 0	Issue Date: 22/06/2001 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

ID	Location	Details		
В	293m S	Site Name: Area A3 Site Address: Tilbury B Power Station, Fort Road, Tilbury, Essex, RM18 8UJ Correspondence Address: -	Type of Site: Industrial Waste Landfill (Factory curtilage) Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 631881 EPR reference: EA/EPR/DP3498NX Operator: Rwe Generation Uk Plc Waste Management licence No: 71186 Annual Tonnage: 350000	Issue Date: 22/06/2001 Effective Date: 22/06/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired

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

3.7 Waste exemptions

Records within 500m 5

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 21 >

ID	Location	Site	Reference	Category	Sub- Category	Description
A	143m NE	Travis Perkins Range Centre Windrush Road Tilbury RM18 7AN	EPR/ZF0104HP /A001	Storing waste exemption	Non- Agricultura I Waste Only	Storage of waste in secure containers
А	143m NE	Travis Perkins Range Centre Windrush Road Tilbury RM18 7AN	EPR/ZF0104HP /A001	Storing waste exemption	Non- Agricultura I Waste Only	Storage of waste in a secure place
A	143m NE	Travis Perkins Range Centre Windrush Road Tilbury RM18 7AN	EPR/ZF0104HP /A001	Treating waste exemption	Non- Agricultura I Waste Only	Preparatory treatments (baling, sorting, shredding etc)
A	143m NE	Travis Perkins Range Centre Windrush Road Tilbury RM18 7AN	EPR/ZF0104HP /A001	Treating waste exemption	Non- Agricultura I Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	143m NE	Travis Perkins Range Centre Windrush Road Tilbury RM18 7AN	EPR/ZF0104HP /A001	Treating waste exemption	Non- Agricultura I Waste Only	Manual treatment of waste





WALTON COMMON, FORT ROAD, TILBURY, THURROCK, RM18 8UL

Ref: GS-DPX-4AY-IW7-RTA

Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

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

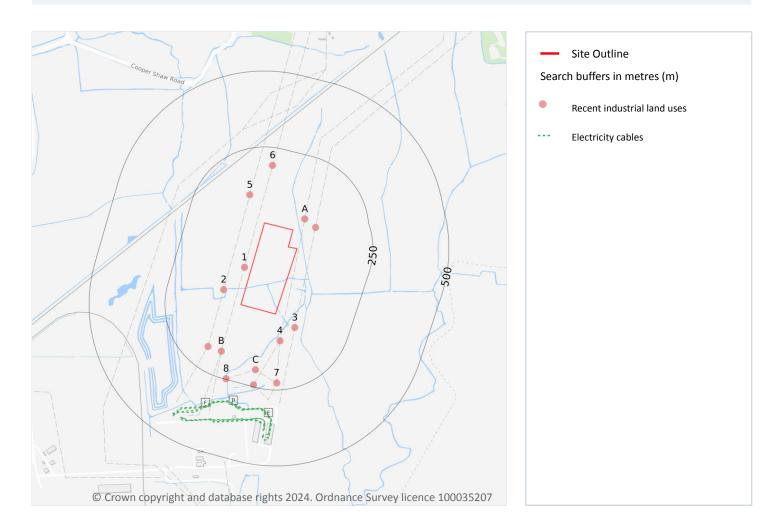




Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m 14

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 27 >

ID	Location	Company	Address	Activity	Category
1	23m W	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
А	53m NE	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
2	68m SW	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities





Your ref: PO24-0140 794-ENV-EPC-20502

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ID	Location	Company	Address	Activity	Category
Α	75m NE	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
3	78m SE	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
4	89m S	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
5	104m N	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
В	166m SW	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
В	175m SW	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
6	191m N	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
С	194m S	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
7	227m S	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
С	243m S	Pylon	Essex, RM18	Electrical Features	Infrastructure and Facilities
8	248m S	Pylon	Essex, RM18	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

Records within 500m 10

High voltage underground electricity transmission cables.

Features are displayed on the Current industrial land use map on page 27 >





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

ID	Location	Cable Set	Cable Route	Details	
D	313m S	YYJ136 - TILBURY CABLE SECT 01	TILBURY - WEST THURROCK 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: 2011 Cable in tunnel? Not specified
Е	314m S	-	-	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: Not specified Cable in tunnel? Not specified
Е	315m S	-	-	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: Not specified Cable in tunnel? Not specified
D	316m S	YYJ136 - TILBURY CABLE SECT 01	TILBURY - WEST THURROCK 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: 2011 Cable in tunnel? Not specified
F	319m S	-	-	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: Not specified Cable in tunnel? Not specified
F	320m S	-	-	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: Not specified Cable in tunnel? Not specified
D	347m S	-	-	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: Not specified Cable in tunnel? Not specified
D	348m S	-	-	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: Not specified Cable in tunnel? Not specified
D	353m S	YYJ136 - TILBURY CABLE SECT 02	TILBURY - WEST THURROCK 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: 2011 Cable in tunnel? Not specified
D	356m S	YYJ136 - TILBURY CABLE SECT 02	TILBURY - WEST THURROCK 1	Cable Make: - Cable Type: A/C Operating Voltage (kV): 400	Year of installation: 2011 Cable in tunnel? Not specified

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m 0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.





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4.5 Sites determined as Contaminated Land

Records within 500m 0

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

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m 0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m 0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m 0

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

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





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4.10 Licensed industrial activities (Part A(1))

Records within 500m 0

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

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

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

Records within 500m 0

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.

4.12 Radioactive Substance Authorisations

Records within 500m 0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m 0

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 0

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

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





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4.15 Pollutant release to public sewer

Records within 500m 0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m 0

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

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

4.17 List 2 Dangerous Substances

Records within 500m 0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m 0

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

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

4.19 Pollution inventory substances

Records within 500m 0

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

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





Your ref: PO24-0140 794-ENV-EPC-20502

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4.20 Pollution inventory waste transfers

Records within 500m 0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m 0

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

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

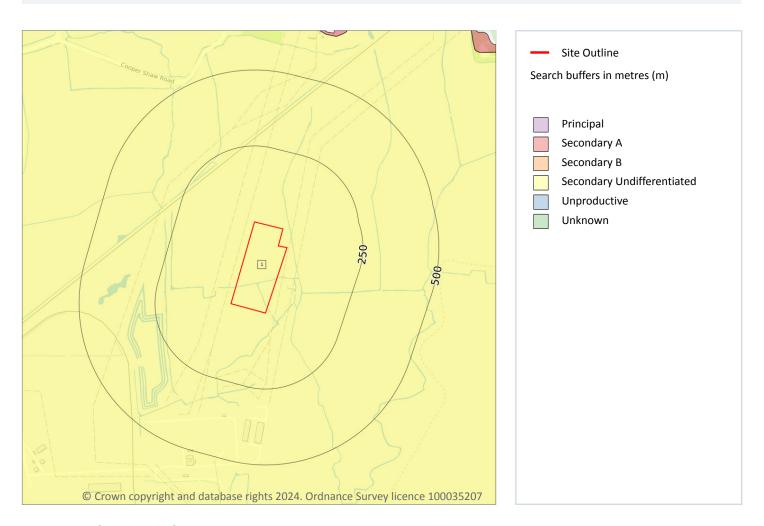




Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

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 34 >

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

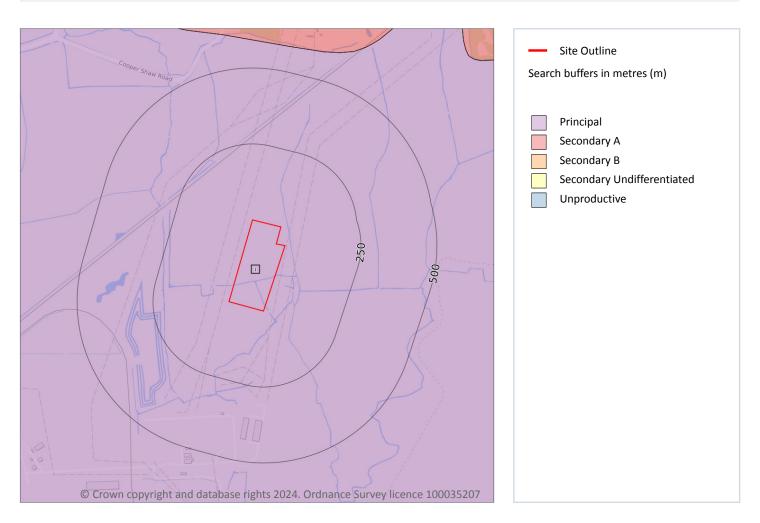




Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m 1

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on page 35 >

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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

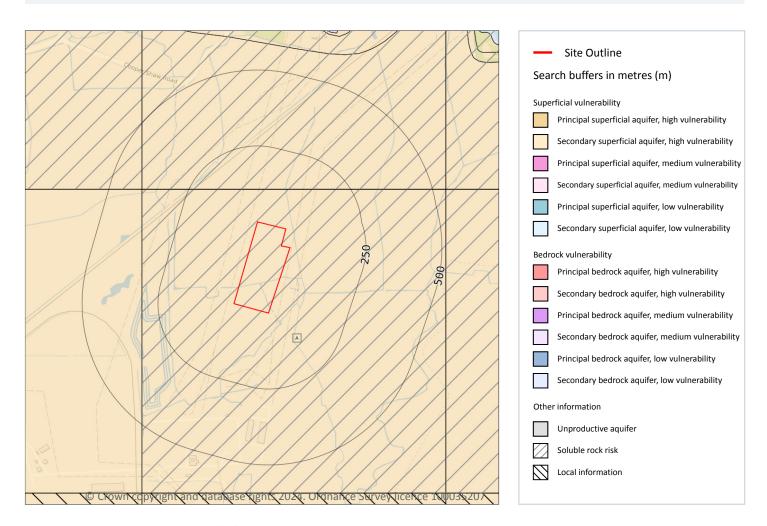




Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m 1

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

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

Features are displayed on the Groundwater vulnerability map on page 36 >





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
Α	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site 1

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
Α	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	1.0%

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

5.5 Groundwater vulnerability- local information

Records on site 0

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

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

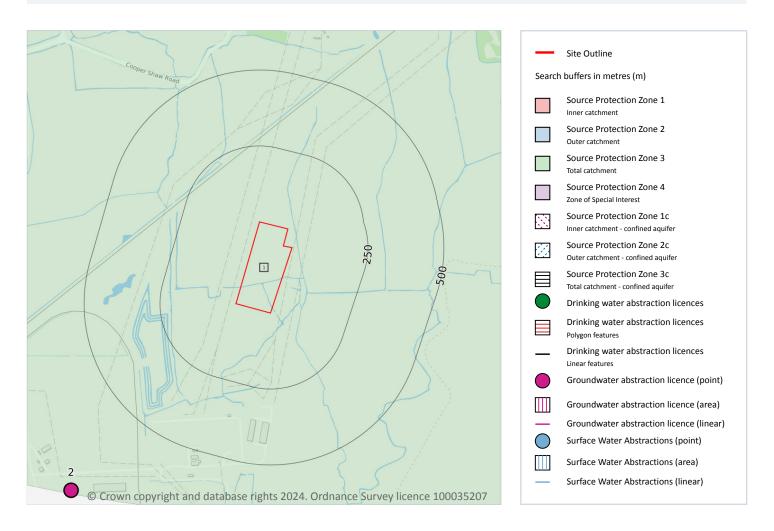




Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m 13

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 38 >





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

ID	Location	Details	
-	800m NE	Status: Active Licence No: 8/37/56/*G/0006 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL 2 AT POLWICKS, WEST TILBURY Data Type: Point Name: C H COLE & SONS Easting: 566800 Northing: 177600	Annual Volume (m³): 182000 Max Daily Volume (m³): 1300 Original Application No: ES2684 Original Start Date: 01/11/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/2003 Version End Date: -
-	800m NE	Status: Active Licence No: 8/37/56/*G/0006 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL 2 AT POLWICKS, WEST TILBURY Data Type: Point Name: C H COLE & SONS Easting: 566800 Northing: 177600	Annual Volume (m³): 182000 Max Daily Volume (m³): 1300 Original Application No: ES2684 Original Start Date: 01/11/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/2003 Version End Date: -
2	819m SW	Status: Historical Licence No: 8/37/56/*G/0084 Details: Make-Up or Top Up Water Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT TILBURY POWER STN Data Type: Point Name: RWE INNOGY PLC Easting: 565760 Northing: 176010	Annual Volume (m³): 4000 Max Daily Volume (m³): 18 Original Application No: - Original Start Date: 16/09/1996 Expiry Date: - Issue No: 103 Version Start Date: 01/10/2003 Version End Date: -
-	1069m NE	Status: Active Licence No: 8/37/56/*G/0006 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: EXCAV AT POLWICKS,WEST TILBURY Data Type: Point Name: C H COLE & SONS Easting: 567000 Northing: 177800	Annual Volume (m³): 182000 Max Daily Volume (m³): 1300 Original Application No: ES2684 Original Start Date: 01/11/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/2003 Version End Date: -
-	1069m NE	Status: Active Licence No: 8/37/56/*G/0006 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: EXCAV AT POLWICKS,WEST TILBURY Data Type: Point Name: C H COLE & SONS Easting: 567000 Northing: 177800	Annual Volume (m³): 182000 Max Daily Volume (m³): 1300 Original Application No: ES2684 Original Start Date: 01/11/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/2003 Version End Date: -





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

ID	Location	Details	
-	1069m NE	Status: Active Licence No: 8/37/56/*G/0006 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL 1 AT POLWICKS, WEST TILBURY Data Type: Point Name: C H COLE & SONS Easting: 567000 Northing: 177800	Annual Volume (m³): 182000 Max Daily Volume (m³): 1300 Original Application No: ES2684 Original Start Date: 01/11/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/2003 Version End Date: -
	1069m NE	Status: Active Licence No: 8/37/56/*G/0006 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL 1 AT POLWICKS, WEST TILBURY Data Type: Point Name: C H COLE & SONS Easting: 567000 Northing: 177800	Annual Volume (m³): 182000 Max Daily Volume (m³): 1300 Original Application No: ES2684 Original Start Date: 01/11/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/12/2003 Version End Date: -
-	1180m NE	Status: Historical Licence No: 8/37/56/*G/0073 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: 4 BOREHOLES, LOW ST.,E. TILBURY Data Type: Point Name: INNOGY PLC Easting: 567200 Northing: 177800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/02/1987 Expiry Date: 31/12/2046 Issue No: 103 Version Start Date: 21/07/2000 Version End Date: -
-	1180m NE	Status: Historical Licence No: 8/37/56/*G/0073 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: 4 BOREHOLES, LOW ST.,E. TILBURY Data Type: Point Name: INNOGY PLC Easting: 567200 Northing: 177800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/02/1987 Expiry Date: 31/12/2046 Issue No: 103 Version Start Date: 21/07/2000 Version End Date: -
-	1180m NE	Status: Historical Licence No: 8/37/56/*G/0073 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: 4 BOREHOLES, LOW ST.,E. TILBURY Data Type: Point Name: INNOGY PLC Easting: 567200 Northing: 177800	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/02/1987 Expiry Date: 31/12/2046 Issue No: 103 Version Start Date: 21/07/2000 Version End Date: -





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

ID	Location	Details	
-	1180m NE	Status: Historical Licence No: 8/37/56/*G/0073 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: 4 BOREHOLES, LOW ST, EAST TILBURY Data Type: Point Name: RWE Generation UK PLC Easting: 567200 Northing: 177800	Annual Volume (m³): 1100000 Max Daily Volume (m³): 5500 Original Application No: - Original Start Date: 13/02/1987 Expiry Date: 31/12/2046 Issue No: 105 Version Start Date: 16/05/2016 Version End Date: -
-	1180m NE	Status: Historical Licence No: 8/37/56/*G/0073 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUND WATER SOURCE OF SUPPLY Point: 4 BOREHOLES, LOW ST, EAST TILBURY Data Type: Point Name: RWE Generation UK PLC Easting: 567200 Northing: 177800	Annual Volume (m³): 1100000 Max Daily Volume (m³): 5500 Original Application No: - Original Start Date: 13/02/1987 Expiry Date: 31/12/2046 Issue No: 105 Version Start Date: 16/05/2016 Version End Date: -
-	1180m NE	Status: Historical Licence No: 8/37/56/*G/0073 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: 4 BOREHOLES, LOW ST, EAST TILBURY Data Type: Point Name: RWE Generation UK PLC Easting: 567200 Northing: 177800	Annual Volume (m³): 1100000 Max Daily Volume (m³): 5500 Original Application No: - Original Start Date: 13/02/1987 Expiry Date: 31/12/2046 Issue No: 105 Version Start Date: 16/05/2016 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.





Your ref: PO24-0140 794-ENV-EPC-20502

1

Grid ref: 566397 176739

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 38 >

ID	Location	Details	
-	1180m NE	Status: Historical Licence No: 8/37/56/*G/0073 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUND WATER SOURCE OF SUPPLY Point: 4 BOREHOLES, LOW ST, EAST TILBURY Data Type: Point Name: RWE Generation UK PLC Easting: 567200 Northing: 177800	Annual Volume (m³): 1100000 Max Daily Volume (m³): 5500 Original Application No: - Original Start Date: 13/02/1987 Expiry Date: 31/12/2046 Issue No: 105 Version Start Date: 16/05/2016 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m 1

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

Features are displayed on the Abstractions and Source Protection Zones map on page 38 >

ID	Location	Туре	Description
1	On site	3	Total catchment

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m 0

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

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

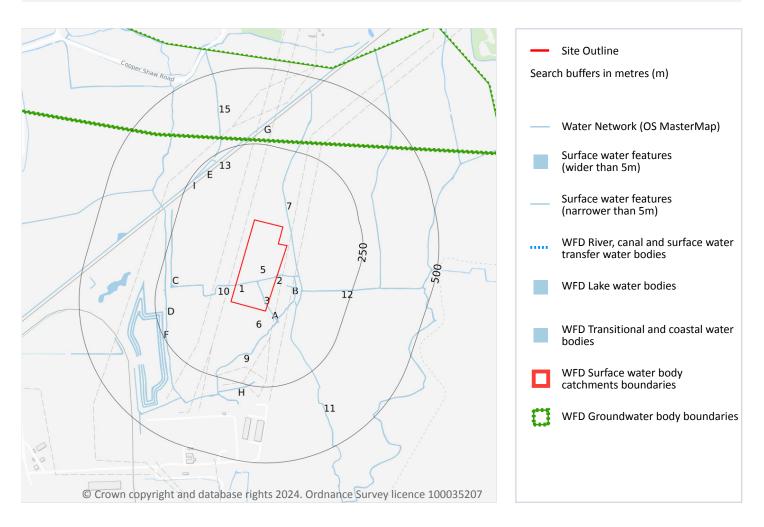




Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m 34

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

Features are displayed on the Hydrology map on page 43 >

10)	Location	Type of water feature	Ground level	Permanence	Name
1		On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
А	13m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
7	19m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Α	21m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
В	40m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	47m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
В	47m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
В	53m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
В	53m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	56m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
С	57m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
В	68m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-





WALTON COMMON, FORT ROAD, TILBURY, THURROCK, RM18 8UL

Ref: GS-DPX-4AY-IW7-RTA

Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

ID	Location	Type of water feature	Ground level	Permanence	Name
В	68m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
В	68m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
В	70m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
В	71m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
В	84m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	91m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
В	91m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
12	92m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	212m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Е	226m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
13	227m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	228m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	228m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

ID	Location	Type of water feature	Ground level	Permanence	Name
E	229m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Н	235m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	238m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	240m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
15	244m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	245m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	246m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m 12

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.

Features are displayed on the Hydrology map on page 43 >

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site 1

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





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

Features are displayed on the Hydrology map on page 43 >

ID	Location	Туре	Water body catchment	Water body ID	Operational catchment	Management catchment
5	On site	Coastal Catchment	Not part of a river WB catchment	126	Mardyke	South Essex

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 1

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.

Features are displayed on the Hydrology map on page 43 >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
6	On site	South Essex Thurrock Chalk	<u>GB40601G401100</u> ⊅	Poor	Poor	Poor	2019

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

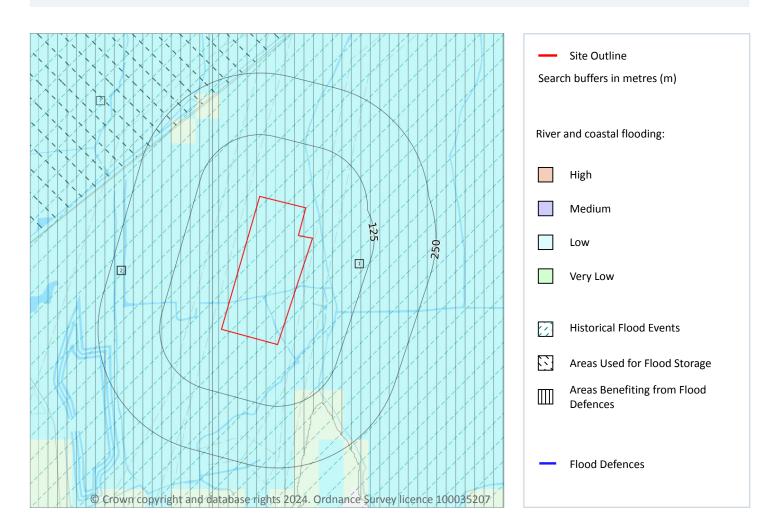




Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

7 River and coastal flooding



7.1 Risk of flooding from rivers and the sea

Records within 50m 1

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 100 chance) or High (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 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).

Features are displayed on the River and coastal flooding map on page 48 >





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

Distance	Flood risk category
On site	Low
0 - 50m	Low

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

7.2 Historical Flood Events

Records within 250m 1

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.

Features are displayed on the River and coastal flooding map on page 48 >

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
Α	On site	1953 Coast Flood Outline Essex	1953-01-31 1953-02-01	Sea	Other	Tidal

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.

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.

Features are displayed on the River and coastal flooding map on page 48 >





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

ID	Location	
1	On site	Area benefiting from flood defences

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

7.5 Flood Storage Areas

Records within 250m 1

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.

Features are displayed on the River and coastal flooding map on page 48 >

ID	Location	Update
7	218m NW	Flood Storage Area

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





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

River and coastal flooding - Flood Zones



7.6 Flood Zone 2

Records within 50m 1

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.

Features are displayed on the River and coastal flooding map on page 48 >

Location Type
On site Zone 2 - (Fluvial /Tidal Models)

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





Your ref: PO24-0140 794-ENV-EPC-20502

1

Grid ref: 566397 176739

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.

Features are displayed on the River and coastal flooding map on page 48 >

Location	Туре
On site	Zone 3 - (Fluvial Models)

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

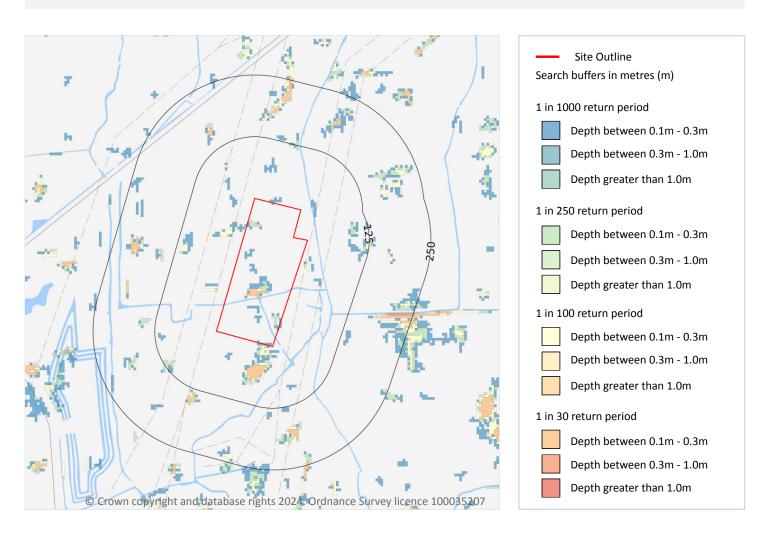




Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

8 Surface water flooding



8.1 Surface water flooding

Highest risk on site	1 in 30 year, 0.1m - 0.3m
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 53 >

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.





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

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

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

This data is sourced from Ambiental Risk Analytics.

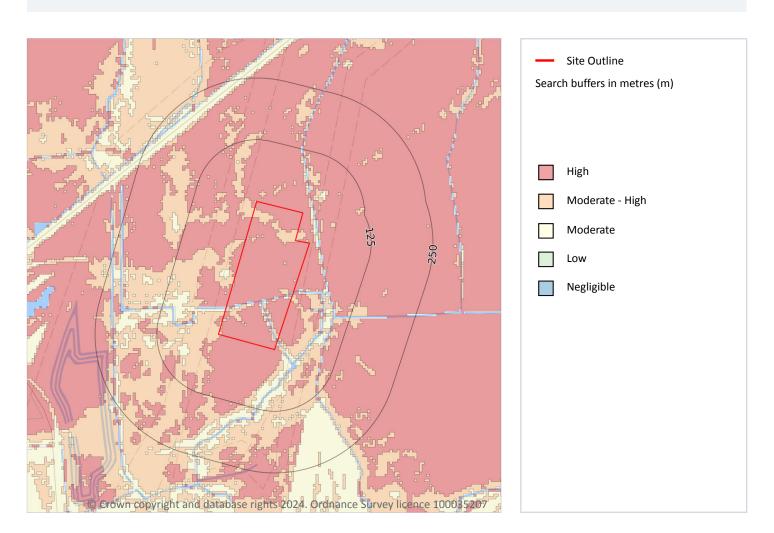




Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

9 Groundwater flooding



9.1 Groundwater flooding

High	nest risk on site	High
High	nest risk within 50m	High

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 55 >

This data is sourced from Ambiental Risk Analytics.

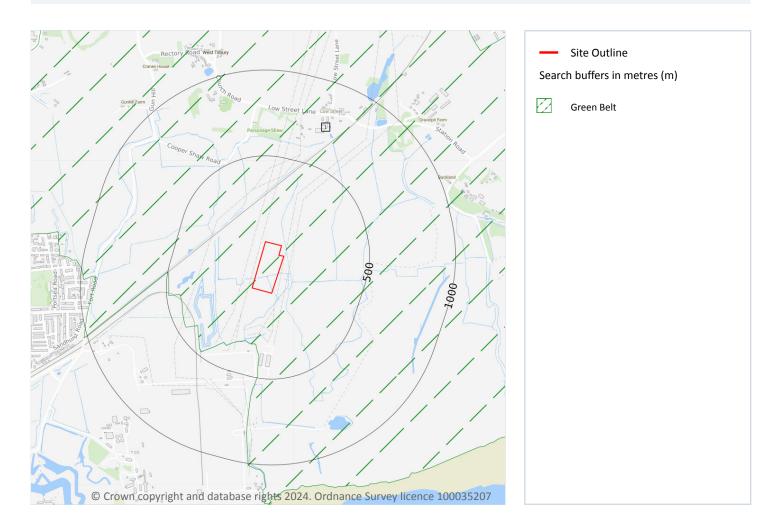




Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m 0

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.

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





Your ref: PO24-0140 794-ENV-EPC-20502

Grid ref: 566397 176739

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m 0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m 0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m 0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m 0

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

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





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10.6 Local Nature Reserves (LNR)

Records within 2000m 0

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 0

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 0

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

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

10.9 Forest Parks

Records within 2000m 0

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

This data is sourced from the Forestry Commission.





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10.10 Marine Conservation Zones

Records within 2000m 0

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

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

10.11 Green Belt

Records within 2000m

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

Features are displayed on the Environmental designations map on page 56 >

ID	Location	Name	Local Authority name
1	On site	London	Thurrock

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

10.12 Proposed Ramsar sites

Records within 2000m 0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m 0

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

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





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10.14 Potential Special Protection Areas (pSPA)

Records within 2000m 0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m 0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m 0

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

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

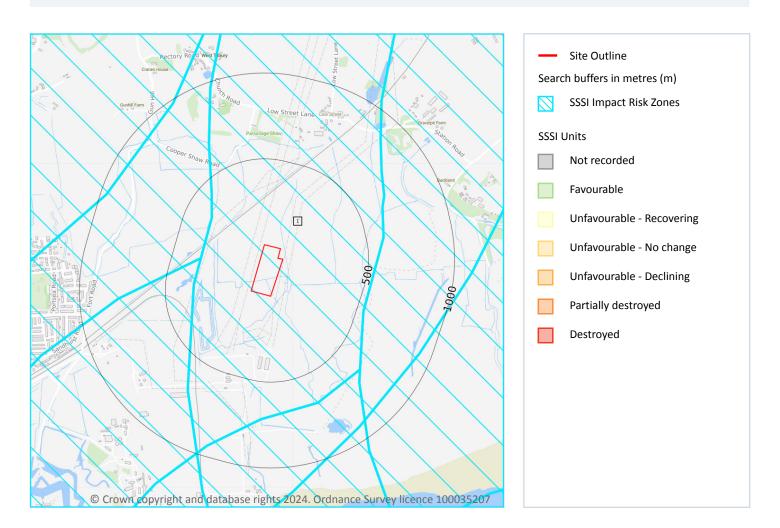




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SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site 1

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 61 >





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ID	Location	Type of developments requiring consultation
sett tree Infr		All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures. Infrastructure - Airports, helipads and other aviation proposals. Wind and Solar - Wind turbines.
		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 100 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 > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t).
		Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.
		Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.
		Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.
		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 0

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.

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





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11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m 0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m 0

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

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

11.3 National Parks

Records within 250m 0

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

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

11.4 Listed Buildings

Records within 250m 0

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.





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

11.5 Conservation Areas

Records within 250m 0

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 0

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

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

11.7 Registered Parks and Gardens

Records within 250m 0

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

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

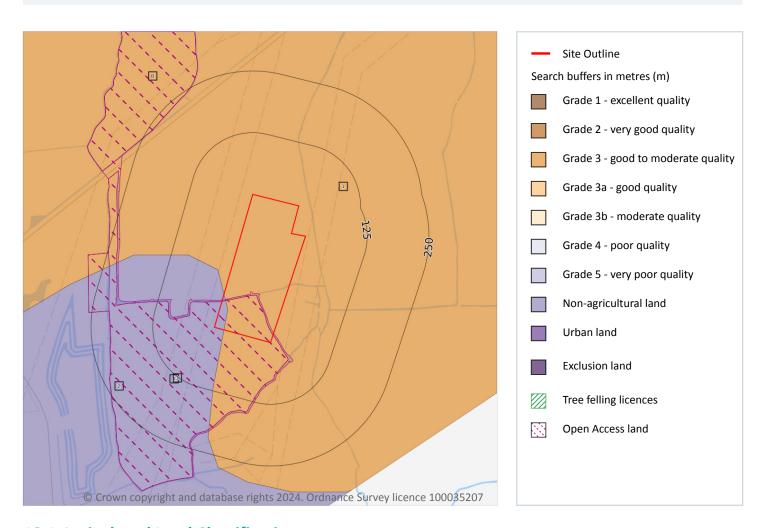




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12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m 2

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 65 >

ID	Location	Classification	Description
1	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.





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ID	Location	Classification	Description
2	On site	Non Agricultural	

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m 5

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.

Features are displayed on the Agricultural designations map on page 65 >

ID	Location	Name	Classification	Other relevant legislation
3	On site	West Tilbury Commons	Section 15 Land	POCA 1893
Α	On site	The Green, Hall Hill, Fort Road, Parsonage, Walton and Tilbury Fort Commons	Section 4 Conclusive Registered Common Land	-
Α	On site	The Green, Hall Hill Common, Fort Road Common, Par	Section 15 Land	S.193 - Urban Borough District
В	238m NW	The Green, Hall Hill, Fort Road, Parsonage, Walton and Tilbury Fort Commons	Section 4 Conclusive Registered Common Land	-
В	238m NW	The Green, Hall Hill Common, Fort Road Common, Par	Section 15 Land	S.193 - Urban Borough District

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.





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12.4 Environmental Stewardship Schemes

Records within 250m 0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m 0

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

This data is sourced from Natural England.



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13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m 1

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on page 68 >

ID	Location	Main Habitat	Other habitats
2	239m NW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)

This data is sourced from Natural England.





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13.2 Habitat Networks

Records within 250m 1

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 68 >

ID	Location	Туре	Habitat
1	213m SE	Network Enhancement Zone 1	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m 0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m 0

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

This data is sourced from Natural England.





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14 Geology 1:10,000 scale - Availability



14.1 10k Availability

Records within 500m

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

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

ı	1	On site	Full	Full	Full	No coverage	TQ67NE
	ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.

This data is sourced from the British Geological Survey.

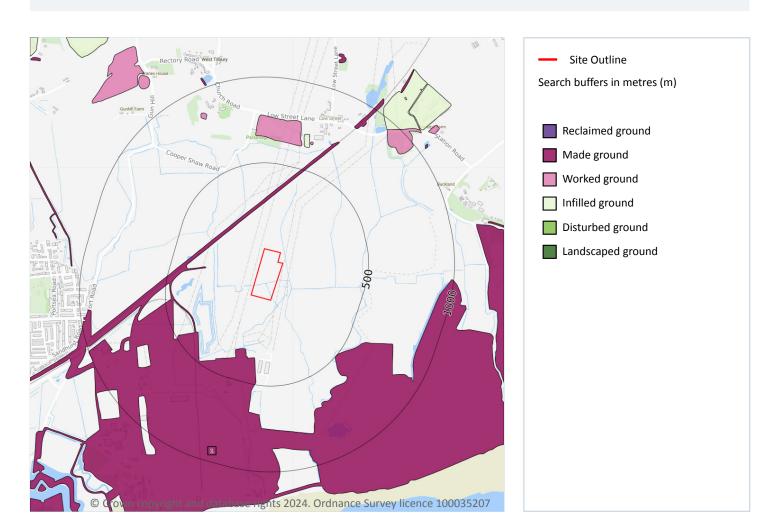




Your ref: PO24-0140 794-ENV-EPC-20502

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



14.2 Artificial and made ground (10k)

Records within 500m

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on page 71 >

ID	Location	LEX Code	Description	Rock description
1	211m NW	MGR-UKNOWN	Made Ground (Undivided)	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.





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Geology 1:10,000 scale - Superficial



Site OutlineSearch buffers in metres (m)

Landslip (10k)

Superficial geology (10k) Please see table for more details.

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.

Features are displayed on the Geology 1:10,000 scale - Superficial map on page 72 >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt

This data is sourced from the British Geological Survey.





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0

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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.

This data is sourced from the British Geological Survey.

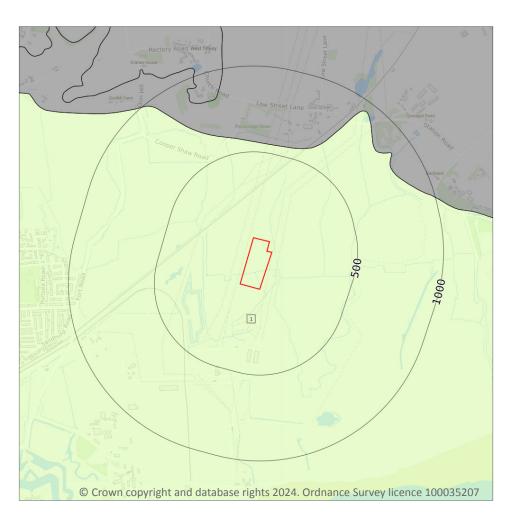




Your ref: PO24-0140 794-ENV-EPC-20502

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Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)

Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on page 74 >

ID	Location	LEX Code	Description	Rock age
1	On site	CK-CHLK	Chalk Group - Chalk	Maastrichtian Age - Cenomanian Age

This data is sourced from the British Geological Survey.





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14.6 Bedrock faults and other linear features (10k)

Records within 500m 0

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

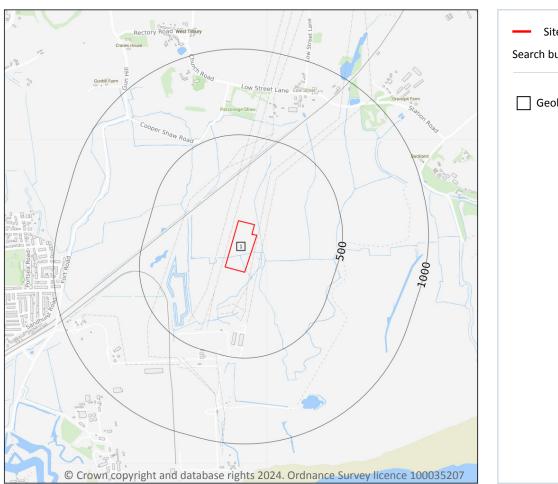




Your ref: PO24-0140 794-ENV-EPC-20502

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15 Geology 1:50,000 scale - Availability



Site Outline
Search buffers in metres (m)

Geological map tile

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 76 >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW271_dartford_v4





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Grid ref: 566397 176739

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.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on page 77 >

ID	Location	LEX Code	Description	Rock description
1	234m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT





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15.3 Artificial ground permeability (50k)

Records within 50m 0

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

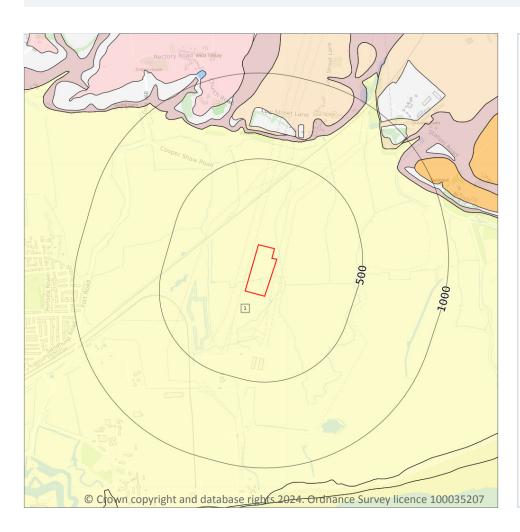




Your ref: PO24-0140 794-ENV-EPC-20502

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Geology 1:50,000 scale - Superficial



Site OutlineSearch buffers in metres (m)

Landslip (50k)

Superficial geology (50k) Please see table for more details.

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 79 >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSP	ALLUVIUM	CLAY, SILT, SAND AND PEAT





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1

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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).

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m 0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m 0

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

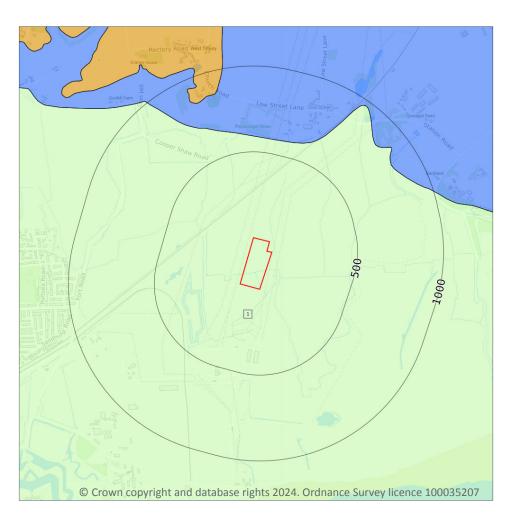




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Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)

Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

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 81 >

ID	Location	LEX Code	Description	Rock age
1	On site	LSNCK-CHLK	LEWES NODULAR CHALK FORMATION, SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN

This data is sourced from the British Geological Survey.





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1

Grid ref: 566397 176739

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	Fracture	Very High	Very High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m 0

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

This data is sourced from the British Geological Survey.





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16 Boreholes

16.1 BGS Boreholes

Records within 250m 0

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.

This data is sourced from the British Geological Survey.

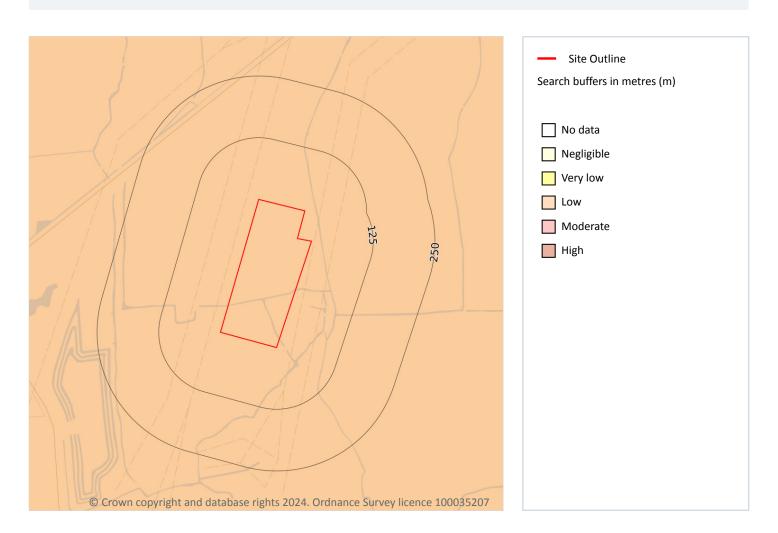




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17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m 1

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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on page 84 >

On site	Low	Ground conditions predominantly medium plasticity.
Location	Hazard rating	Details





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Grid ref: 566397 176739

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m 1

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

Features are displayed on the Natural ground subsidence - Running sands map on page 85 >

Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.





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Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m 1

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on page 86 >

On site	High	Highly compressible strata present. Significant constraint on land use depending on thickness.
Location	Hazard rating	Details





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Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m 1

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

Features are displayed on the Natural ground subsidence - Collapsible deposits map on page 87 >

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.





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Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m 1

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

Features are displayed on the Natural ground subsidence - Landslides map on page 88 >

Locatio	n 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.





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Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m 1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on page 89

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 0

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





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18.2 Surface ground workings

Records within 250m 1

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 91 >

ID	Location	Land Use	Year of mapping	Mapping scale
1	68m SW	Unspecified Level	1955	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m 0

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 0

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

This data is sourced from the British Geological Survey.





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18.6 Non-coal mining

Records within 1000m 3

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).

Features are displayed on the Mining and ground workings map on page 91 >

ID	Location	Name	Commodity	Class	Likelihood
4	583m N	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
5	626m N	Not available	Chalk	А	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	848m N	Not available	Chalk	В	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site 0

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 0

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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0

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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 0

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 0

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

info@groundsure.com ↗

01273 257 755

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.



Contact us with any questions at: Date: 28 February 2024



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18.14 Gypsum areas

Records on site 0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site 0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site 0

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

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





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19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m 0

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

This data is sourced from 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 0

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 0

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.

This data is sourced from the British Geological Survey.

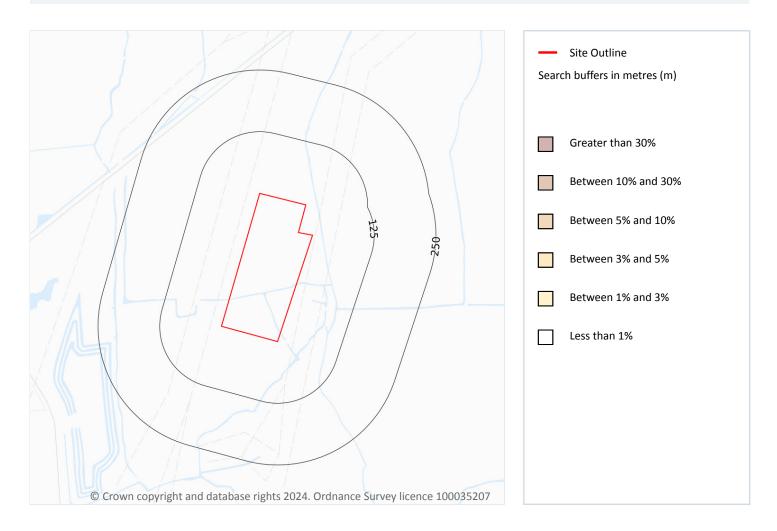




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20 Radon



20.1 Radon

Records on site 1

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 98 >

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





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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 2

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmiu m	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
13m NE	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 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 5

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

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromiu m (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/k g)
On site	52	9.1	177	122	0.8	141	144	113	7
On site	53	9.3	178	122	0.9	141	145	114	7
3m SW	53	9.3	171	117	0.8	142	147	122	6
23m SW	57	10	185	127	0.9	146	160	126	7
24m W	51	8.9	167	115	0.8	140	140	116	7

This data is sourced from the British Geological Survey.



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21.3 BGS Measured Urban Soil Chemistry

Records within 50m 0

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

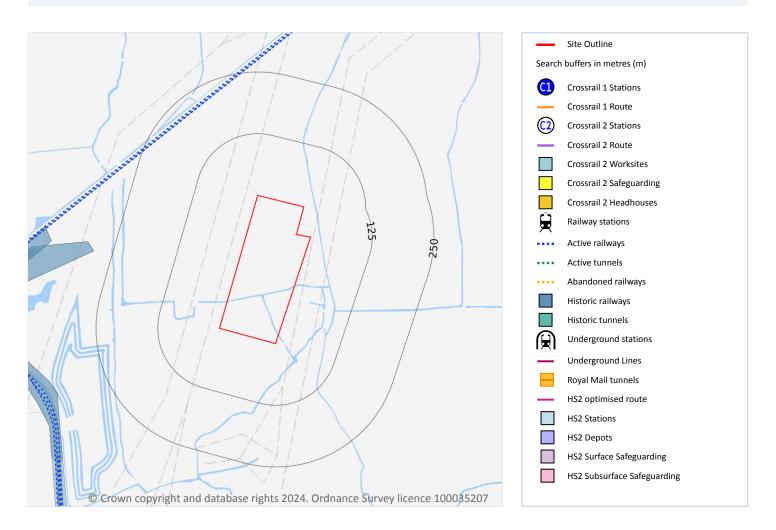




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22 Railway infrastructure and projects



22.1 Underground railways (London)

Records within 250m 0

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

This data is sourced from publicly available information by Groundsure.

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.







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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 0

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m 0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m 0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m 3

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on page 102 >





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Location	Name	Туре
215m NW	Not given	Multi Track
216m NW	Tilbury Loop Line	rail
219m NW	Tilbury Loop Line	rail

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m 0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m 0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m 0

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

This data is sourced from HS2 ltd.





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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 https://www.groundsure.com/sources-reference.

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