

# Enviro+Geo

#### ANAEROBIC DIGESTION PLANT, SOMERSET FARM, CANTS DROVE, MURROW, PE13 4HN

## **Order Details**

Date:	29/09/2022

Your ref: Murrow\_AD\_Site

Our Ref: GS-9090856

# **Site Details**

Location:537304 304652Area:1.45 haAuthority:Fenland District Council





Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

# **Summary of findings**

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	0	0	0	0	-
14	1.2	Historical tanks	0	0	0	0	-
14	1.3	Historical energy features	0	0	0	0	-
15	1.4	Historical petrol stations	0	0	0	0	-
15	1.5	Historical garages	0	0	0	0	-
15	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
16	2.1	Historical industrial land uses	0	0	0	0	-
16	2.2	Historical tanks	0	0	0	0	-
16	2.3	Historical energy features	0	0	0	0	-
16	2.4	Historical petrol stations	0	0	0	0	-
17	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
18	3.1	Active or recent landfill	0	0	0	0	-
			0	0	0		-
18	3.1	Active or recent landfill				0	-
18 18	3.1 3.2	Active or recent landfill Historical landfill (BGS records)	0	0	0	0	-
18 18 19	3.1 3.2 3.3	Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records)	0	0	0 0	0 0 0	
18 18 19 19	3.1 3.2 3.3 3.4	Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records)	0 0 0	0 0 0	0 0 0	0 0 0 0	
18 18 19 19 19	3.1 3.2 3.3 3.4 3.5	Active or recent landfill 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 0	0 0 0 0 0	
18 18 19 19 19 19 <b>19</b>	3.1 3.2 3.3 3.4 3.5 <b>3.6</b>	Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites Licensed waste sites	0 0 0 0 1	0 0 0 0 2	0 0 0 0	0 0 0 0 0 0	- - - - - - - 500-2000m
18 18 19 19 19 19 <u>19</u> <u>20</u>	<ul> <li>3.1</li> <li>3.2</li> <li>3.3</li> <li>3.4</li> <li>3.5</li> <li><u>3.6</u></li> <li><u>3.7</u></li> </ul>	Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites <u>Licensed waste sites</u> <u>Waste exemptions</u>	0 0 0 1 5	0 0 0 0 2 0	0 0 0 0 0 2	0 0 0 0 0 0 2	
18 18 19 19 19 19 <u>19</u> <u>20</u> Page	3.1 3.2 3.3 3.4 3.5 <u>3.6</u> <u>3.7</u> Section	Active or recent landfill 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 1 5 On site	0 0 0 0 2 0 0-50m	0 0 0 0 0 2 50-250m	0 0 0 0 0 0 2	
18 18 19 19 19 19 <b>19</b> <b>20</b> Page	3.1 3.2 3.3 3.4 3.5 <b>3.6</b> <b>3.7</b> Section <b>4.1</b>	Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites Licensed waste sites <u>Waste exemptions</u> Current industrial land use <u>Recent industrial land uses</u>	0 0 0 1 5 On site 1	0 0 0 0 2 0 0-50m 1	0 0 0 0 0 2 50-250m	0 0 0 0 0 0 2 250-500m	
18 18 19 19 19 19 20 Page 23	3.1 3.2 3.3 3.4 3.5 <b>3.6</b> <b>3.7</b> Section <b>4.1</b> 4.2	Active or recent landfill Historical landfill (BGS records) Historical landfill (LA/mapping records) Historical landfill (EA/NRW records) Historical waste sites Licensed waste sites Uaste exemptions Current industrial land use Recent industrial land uses Current or recent petrol stations	0 0 0 1 5 On site 1 0	0 0 0 0 2 0 0-50m 1 0	0 0 0 0 0 2 50-250m 0 0	0 0 0 0 0 0 0 2 2 50-500m	





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23	4.6	Control of Major Accident Hazards (COMAH)	0 0 0 0				_
24	4.7	Regulated explosive sites	0	0	0	0	-
<u>24</u>	<u>4.8</u>	Hazardous substance storage/usage	0	0	1	0	_
24	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
<u>24</u>	<u>4.10</u>	Licensed industrial activities (Part A(1))	0	0	2	0	-
25	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
25	4.12	Radioactive Substance Authorisations	0	0	0	0	-
25	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
26	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
26	4.15	Pollutant release to public sewer	0	0	0	0	-
26	4.16	List 1 Dangerous Substances	0	0	0	0	-
26	4.17	List 2 Dangerous Substances	0	0	0	0	-
26	4.18	Pollution Incidents (EA/NRW)	0	0	0	-	
27	4.19	Pollution inventory substances	0	0	0	0	-
27	4.20	Pollution inventory waste transfers	0		0	0	-
			0 0				
27	4.21	Pollution inventory radioactive waste	0	0	0	0	-
27 Page	4.21 Section	Pollution inventory radioactive waste Hydrogeology	0 On site	0 0-50m	0 50-250m	0 250-500m	- 500-2000m
			On site		50-250m		- 500-2000m
Page	Section	Hydrogeology	On site Identified (	0-50m	50-250m		- 500-2000m
Page <u>28</u>	Section	Hydrogeology Superficial aquifer	On site Identified ( Identified (	0-50m within 500m	50-250m		- 500-2000m
Page 28 30	Section 5.1 5.2	Hydrogeology Superficial aquifer Bedrock aquifer	On site Identified ( Identified (	0-50m (within 500m (within 500m (within 50m)	50-250m		- 500-2000m
Page 28 30 31	Section 5.1 5.2 5.3	Hydrogeology Superficial aquifer Bedrock aquifer Groundwater vulnerability	On site Identified ( Identified ( Identified (	0-50m (within 500m (within 500m) (within 50m) hin 0m)	50-250m		- 500-2000m
Page 28 30 31 32	Section 5.1 5.2 5.3 5.4	Hydrogeology Superficial aquifer Bedrock aquifer Groundwater vulnerability Groundwater vulnerability- soluble rock risk	On site Identified ( Identified ( Identified ( None (with	0-50m (within 500m (within 500m) (within 50m) hin 0m)	50-250m		- 500-2000m
Page 28 30 31 32 32	Section 5.1 5.2 5.3 5.4 5.5	HydrogeologySuperficial aquiferBedrock aquiferGroundwater vulnerabilityGroundwater vulnerability- soluble rock riskGroundwater vulnerability- local information	On site Identified ( Identified ( Identified ( None (with None (with	0-50m (within 500m (within 500m) (within 50m) hin 0m)	50-250m )	250-500m	
Page 28 30 31 32 32 33	Section 5.1 5.2 5.3 5.4 5.5 5.6	HydrogeologySuperficial aquiferBedrock aquiferGroundwater vulnerabilityGroundwater vulnerability- soluble rock riskGroundwater vulnerability- local informationGroundwater abstractions	On site Identified ( Identified ( Identified ( None (with None (with O	0-50m (within 500m (within 500m) (within 50m) hin 0m) hin 0m)	50-250m ) )	250-500m	0
Page 28 30 30 31 32 32 33 34	Section 5.1 5.2 5.4 5.5 5.6 5.6 5.7	HydrogeologySuperficial aquiferBedrock aquiferGroundwater vulnerabilityGroundwater vulnerability- soluble rock riskGroundwater vulnerability- local informationGroundwater abstractionsSurface water abstractions	On site Identified ( Identified ( Identified ( None (with None (with 0 0	0-50m (within 500m (within 500m) (within 50m) hin 0m) hin 0m) 0 0	50-250m ) ) 0 0	250-500m 0 0	0 1
Page         28         30         31         32         33         34	Section 5.1 5.2 5.4 5.5 5.6 5.6 5.8	HydrogeologySuperficial aquiferBedrock aquiferGroundwater vulnerabilityGroundwater vulnerability- soluble rock riskGroundwater vulnerability- local informationGroundwater abstractionsSurface water abstractionsPotable abstractions	On site Identified ( Identified ( Identified ( None (with None (with 0 0 0	0-50m (within 500m (within 500m) (within 50m) hin 0m) nin 0m) 0 0 0 0	50-250m ) ) 0 0 0 0	250-500m 0 0	0 1
Page         28         30         31         32         33         34         34	Section 5.1 5.2 5.3 5.4 5.5 5.6 5.6 5.8 5.8 5.9	HydrogeologySuperficial aquiferBedrock aquiferGroundwater vulnerabilityGroundwater vulnerability- soluble rock riskGroundwater vulnerability- local informationGroundwater abstractionsSurface water abstractionsPotable abstractionsSource Protection Zones	On site Identified ( Identified ( Identified ( None (with None (with 0 0 0 0 0	0-50m (within 500m (within 500m) (within 50m) (within 50m) (within 50m) (within 50m) (within 50m) (within 500m) (within 500m) (w	50-250m ) ) 0 0 0 0 0 0	250-500m 0 0 0	0 1





<u>38</u>	<u>6.2</u>	Surface water features	0	5	8	-	-
<u>38</u>	<u>6.3</u>	WFD Surface water body catchments	1	_	-	_	-
<u>39</u>	<u>6.4</u>	WFD Surface water bodies	0	0	0	-	-
39	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
<u>40</u>	<u>7.1</u>	Risk of flooding from rivers and the sea	Medium (v	vithin 50m)			
41	7.2	Historical Flood Events	0	0	0	-	-
41	7.3	Flood Defences	0	0	0	_	-
41	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
41	7.5	Flood Storage Areas	0	0	0	-	-
<u>42</u>	<u>7.6</u>	Flood Zone 2	Identified (	within 50m)			
<u>43</u>	<u>7.7</u>	Flood Zone 3	Identified (	within 50m)			
Page	Section	Surface water flooding					
<u>44</u>	<u>8.1</u>	Surface water flooding	1 in 30 year, 0.1m - 0.3m (within 50m)				
Daga	Section	Crowndwyster fleeding					
Page	Section	Groundwater flooding					
Page <u>46</u>	<u>9.1</u>	Groundwater flooding	Low (within	n 50m)			
			Low (within On site	n 50m) 0-50m	50-250m	250-500m	500-2000m
<u>46</u>	<u>9.1</u>	Groundwater flooding			50-250m 0	<b>250-500m</b> O	500-2000m 0
46 Page	<u>9.1</u> Section	Groundwater flooding Environmental designations	On site	0-50m			
<b>46</b> Page 47	9.1 Section	Groundwater flooding Environmental designations Sites of Special Scientific Interest (SSSI)	On site O	0-50m 0	0	0	0
<b>46</b> Page 47 47	9.1 Section 10.1 10.2	Groundwater floodingEnvironmental designationsSites of Special Scientific Interest (SSSI)Conserved wetland sites (Ramsar sites)	On site 0 0	0-50m 0 0	0	0	0
46 Page 47 47 47	9.1 Section 10.1 10.2 10.3	Groundwater floodingEnvironmental designationsSites 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	0 0 0
46 Page 47 47 47 47	9.1 Section 10.1 10.2 10.3 10.4	Groundwater floodingEnvironmental designationsSites 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 0	0-50m 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
46       Page       47       47       47       47       48	9.1 Section 10.1 10.2 10.3 10.4 10.5	Groundwater floodingEnvironmental designationsSites of Special Scientific Interest (SSSI)Conserved wetland sites (Ramsar sites)Special Areas of Conservation (SAC)Special Protection Areas (SPA)National Nature Reserves (NNR)	On site 0 0 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0	0 0 0 0	0 0 0 0 0	
46         Page         47         47         47         48	<ul> <li>9.1</li> <li>Section</li> <li>10.1</li> <li>10.2</li> <li>10.3</li> <li>10.4</li> <li>10.5</li> <li>10.6</li> </ul>	Groundwater floodingEnvironmental designationsSites of Special Scientific Interest (SSSI)Conserved wetland sites (Ramsar sites)Special Areas of Conservation (SAC)Special Protection Areas (SPA)National Nature Reserves (NNR)Local Nature Reserves (LNR)	On site 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0			
46         Page         47         47         47         48         48	9.1         Section         10.1         10.2         10.3         10.4         10.5         10.6         10.7	Groundwater floodingEnvironmental designationsSites of Special Scientific Interest (SSSI)Conserved wetland sites (Ramsar sites)Special Areas of Conservation (SAC)Special Protection Areas (SPA)National Nature Reserves (NNR)Local Nature Reserves (LNR)Designated Ancient Woodland	On site 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0			
46         Page         47         47         47         48         48         48         48         48	<ul> <li>9.1</li> <li>Section</li> <li>10.1</li> <li>10.2</li> <li>10.3</li> <li>10.4</li> <li>10.5</li> <li>10.6</li> <li>10.7</li> <li>10.8</li> </ul>	Groundwater floodingEnvironmental designationsSites of Special Scientific Interest (SSSI)Conserved wetland sites (Ramsar sites)Special Areas of Conservation (SAC)Special Protection Areas (SPA)National Nature Reserves (NNR)Local Nature Reserves (LNR)Designated Ancient WoodlandBiosphere Reserves	On site 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0 0 0			
46         Page         47         47         47         48         48         49	<ul> <li>9.1</li> <li>Section</li> <li>10.1</li> <li>10.2</li> <li>10.3</li> <li>10.4</li> <li>10.5</li> <li>10.6</li> <li>10.7</li> <li>10.8</li> <li>10.9</li> </ul>	Groundwater floodingEnvironmental designationsSites of Special Scientific Interest (SSSI)Conserved wetland sites (Ramsar sites)Special Areas of Conservation (SAC)Special Protection Areas (SPA)National Nature Reserves (NNR)Local Nature Reserves (LNR)Designated Ancient WoodlandBiosphere ReservesForest Parks	On site 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0 0 0 0 0 0 0 0			



49	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
50	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
50	10.15	Nitrate Sensitive Areas	0	0	0	0	0
50	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
<u>51</u>	<u>10.17</u>	SSSI Impact Risk Zones	1	-	-	-	-
52	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
53	11.1	World Heritage Sites	0	0	0	-	-
53	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
53	11.3	National Parks	0	0	0	-	-
53	11.4	Listed Buildings	0	0	0	-	-
54	11.5	Conservation Areas	0	0	0	-	-
54	11.6	Scheduled Ancient Monuments	0	0	0	-	-
54	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
			Grade 1 (within 250m)				
<u>55</u>	<u>12.1</u>	Agricultural Land Classification	Grade 1 (w	ithin 250m)			
<b>55</b> 56	<b>12.1</b> 12.2	Agricultural Land Classification Open Access Land	Grade 1 (w	ithin 250m) 0	0	_	-
					0	-	-
56	12.2	Open Access Land	0	0		-	- - -
56 56	12.2 12.3	Open Access Land Tree Felling Licences	0	0	0	-	- - -
56 56 56	12.2 12.3 12.4	Open Access Land Tree Felling Licences Environmental Stewardship Schemes	0 0	0 0	0 0	- - - 250-500m	- - - 500-2000m
56 56 57	12.2 12.3 12.4 12.5	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes	0 0 0	0 0 0	0 0 0	- - - 250-500m	- - - 500-2000m
56 56 57 Page	12.2 12.3 12.4 12.5 Section	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations	0 0 0 0 On site	0 0 0 0 0-50m	0 0 0 50-250m	- - - 250-500m -	- - - 500-2000m -
56 56 57 <b>Page</b> 58	12.2 12.3 12.4 12.5 Section 13.1	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations Priority Habitat Inventory	0 0 0 0 <b>On site</b> 0	0 0 0 0 0-50m	0 0 0 50-250m 0	- - - 250-500m - -	- - - 500-2000m - -
56 56 57 <b>Page</b> 58 58	12.2 12.3 12.4 12.5 <b>Section</b> 13.1 13.2	Open Access LandTree Felling LicencesEnvironmental Stewardship SchemesCountryside Stewardship SchemesHabitat designationsPriority Habitat InventoryHabitat Networks	0 0 0 0 0 0 0 0	0 0 0 0 0-50m 0 0	0 0 0 <b>50-250m</b> 0 0	- - - 250-500m - - -	- - - 500-2000m - - - -
56 56 57 <b>Page</b> 58 58 58	12.2 12.3 12.4 12.5 <b>Section</b> 13.1 13.2 13.3	Open Access LandTree Felling LicencesEnvironmental Stewardship SchemesCountryside Stewardship SchemesHabitat designationsPriority Habitat InventoryHabitat NetworksOpen Mosaic Habitat	0 0 0 0 0 0 0 0	0 0 0 0 0 0-50m 0 0	0 0 50-250m 0 0	- - - 250-500m - - - - - - - -	- - - 500-2000m - - - - - - - - - - - -
<ul> <li>56</li> <li>56</li> <li>57</li> <li>Page</li> <li>58</li> <li>58</li> <li>58</li> <li>58</li> <li>58</li> <li>58</li> <li>58</li> </ul>	12.2 12.3 12.4 12.5 <b>Section</b> 13.1 13.2 13.3 13.4	Open Access LandTree Felling LicencesEnvironmental Stewardship SchemesCountryside Stewardship SchemesHabitat designationsPriority Habitat InventoryHabitat NetworksOpen Mosaic HabitatLimestone Pavement Orders	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0-50m 0 0 0 0	0 0 50-250m 0 0 0 0 0 0 50-250m		
56 56 57 <b>Page</b> 58 58 58 58 58	<ul> <li>12.2</li> <li>12.3</li> <li>12.4</li> <li>12.5</li> <li>Section</li> <li>13.1</li> <li>13.2</li> <li>13.3</li> <li>13.4</li> <li>Section</li> </ul>	Open Access LandTree Felling LicencesEnvironmental Stewardship SchemesCountryside Stewardship SchemesHabitat designationsPriority Habitat InventoryHabitat NetworksOpen Mosaic HabitatLimestone Pavement OrdersGeology 1:10,000 scale	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 50-250m 0 0 0 0 0 0 50-250m		





62	14.4	Landslip (10k)	0	0	0	0	-
<u>63</u>	<u>14.5</u>	Bedrock geology (10k)	1 0 0		0	2	-
64	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<u>65</u>	<u>15.1</u>	50k Availability	Identified (	within 500m	)		
66	15.2	Artificial and made ground (50k)	0	0	0	0	-
66	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<u>67</u>	<u>15.4</u>	Superficial geology (50k)	2	0	0	1	-
<u>68</u>	<u>15.5</u>	Superficial permeability (50k)	Identified (	within 50m)			
68	15.6	Landslip (50k)	0	0	0	0	-
68	15.7	Landslip permeability (50k)	None (with	in 50m)			
<u>69</u>	<u>15.8</u>	Bedrock geology (50k)	1	0	0	1	-
<u>70</u>	<u>15.9</u>	Bedrock permeability (50k)	Identified (within 50m)				
70	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
71	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
<u>72</u>	<u>17.1</u>	Shrink swell clays	Low (withir	ո 50m)			
<u>73</u>	<u>17.2</u>	Running sands	High (withi	n 50m)			
<u>75</u>	<u>17.3</u>	Compressible deposits	Moderate (	within 50m)			
<u>76</u>	<u>17.4</u>	Collapsible deposits	Negligible (	within 50m)			
<u>77</u>	<u>17.5</u>	Landslides	Very low (v	vithin 50m)			
<u>78</u>	<u>17.6</u>	Ground dissolution of soluble rocks	Negligible (	within 50m)			
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
70	18.1	Natural cavities	0	0	0	0	_
79	10.1		0	0	Ū	0	
79 79	18.2	BritPits	0	0	0	0	-
							-
79	18.2	BritPits	0	0	0		- - 0





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80	18.6	Non-coal mining	0	0	0	0	0
80	18.7	Mining cavities	0	0	0	0	0
80	18.8	JPB mining areas	None (with	in 0m)			
80	18.9	Coal mining	None (with	in 0m)			
81	18.10	Brine areas	None (with	in 0m)			
81	18.11	Gypsum areas	None (with	in 0m)			
81	18.12	Tin mining	None (with	in 0m)			
81	18.13	Clay mining	None (with	in 0m)			
Page	Section	Radon					
<u>82</u>	<u>19.1</u>	Radon	Less than 1	% (within On	n)		
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>83</u>	<u>20.1</u>	BGS Estimated Background Soil Chemistry	2	0	-	-	-
83	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	_	-
83	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
84	21.1	Underground railways (London)	0	0	0	_	-
84	21.2	Underground railways (Non-London)	0	0	0	_	_
84	21.3	Railway tunnels	0	0	0	-	-
84	21.4	Historical railway and tunnel features	0	0	0	-	-
84	21.5	Royal Mail tunnels	0	0	0	-	-
85	21.6	Historical railways	0	0	0	-	-
85	21.7	Railways	0	0	0	-	-
85	21.8	Crossrail 1	0	0	0	0	-
		Clossian 1					
85	21.9	Crossrail 2	0	0	0	0	-
85 85	21.9 21.10		0 0	0	0 0	0 0	-





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# **Recent aerial photograph**



Capture Date: 08/04/2020 Site Area: 1.45ha





Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

# **Recent site history - 2019 aerial photograph**



Capture Date: 15/05/2019 Site Area: 1.45ha



Contact us with any questions at: info@groundsure.com 08444 159 000



Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

# **Recent site history - 2013 aerial photograph**



Capture Date: 19/07/2013 Site Area: 1.45ha







Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

# Recent site history - 2006 aerial photograph



Capture Date: 01/11/2006 Site Area: 1.45ha







Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

# Recent site history - 1999 aerial photograph



Capture Date: 18/06/1999 Site Area: 1.45ha







Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

# OS MasterMap site plan



Site Area: 1.45ha







Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

# 1 Past land use

#### **1.1 Historical industrial land uses**

#### **Records within 500m**

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'.

This data is sourced from Ordnance Survey / Groundsure.

#### **1.2 Historical tanks**

#### **Records within 500m**

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

This data is sourced from Ordnance Survey / Groundsure.

#### **1.3 Historical energy features**

#### **Records within 500m**

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

This data is sourced from Ordnance Survey / Groundsure.





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#### **1.4 Historical petrol stations**

#### Records within 500m

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

This data is sourced from Ordnance Survey / Groundsure.

#### **1.5 Historical garages**

#### Records within 500m

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

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.







Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

# 2 Past land use - un-grouped

#### 2.1 Historical industrial land uses

#### **Records within 500m**

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

This data is sourced from Ordnance Survey / Groundsure.

#### **2.2 Historical tanks**

#### Records within 500m

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

This data is sourced from Ordnance Survey / Groundsure.

#### 2.3 Historical energy features

#### Records within 500m

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.

#### 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.





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Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

#### **2.5 Historical garages**

#### **Records within 500m**

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

This data is sourced from Ordnance Survey / Groundsure.







Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

# **3** Waste and landfill



#### 3.1 Active or recent landfill

#### **Records within 500m**

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

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

### 3.2 Historical landfill (BGS records)

#### Records within 500m

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

This data is sourced from the British Geological Survey.





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Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

#### 3.3 Historical landfill (LA/mapping records)

#### **Records within 500m**

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

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

#### 3.4 Historical landfill (EA/NRW records)

#### Records within 500m

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

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

#### 3.5 Historical waste sites

#### Records within 500m

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

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

#### **3.6 Licensed waste sites**

#### Records within 500m

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

Features are displayed on the Waste and landfill map on page 18

ID	Location	Details		
1	On site	Site Name: Somerset Farm Site Address: Somerset Farm, Cants Drove, Murrow, Wisbech, Cambridgeshire, PE13 4HN Correspondence Address: -	Type of Site: - Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DBP001 EPR reference: EA/EPR/FB3133AW/V005 Operator: Murrow Ad Plant Limited Waste Management licence No: 103903 Annual Tonnage: 99	Issue Date: 16/10/2012 Effective Date: - Modified: 17/07/2019 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC



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Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

ID	Location	Details		
В	45m NW	Site Name: Somerset Farm Site Address: Somerset Farm, Cants Drove, Murrow, Wisbech, Cambridgeshire, PE13 4HN Correspondence Address: -	Type of Site: On-farm anaerobic digestion 75,000 tpy Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DBP001 EPR reference: EA/EPR/FB3133AW/A001 Operator: Dale Bio Plant Limited Waste Management licence No: 103903 Annual Tonnage: 74999	Issue Date: 16/10/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
В	45m NW	Site Name: Somerset Farm Site Address: Somerset Farm, Cants Drove, Murrow, Wisbech, Cambridgeshire, PE13 4HN Correspondence Address: -	Type of Site: Anaerobic digestion facility inc use of biogas Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DBP001 EPR reference: EA/EPR/FB3133AW/V003 Operator: Dale Bio Plant Limited Waste Management licence No: 103903 Annual Tonnage: 99	Issue Date: 16/10/2012 Effective Date: - Modified: 07/11/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

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

#### 3.7 Waste exemptions

Records within 500m 9	)
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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 18

ID	Location	Site	Reference	Category	Sub- Category	Description
Α	On site	Somerset Farm Cants Drove WISBECH Cambridgeshire PE13 4HN	EPR/TH0777M M/A001	Disposing of waste exemption	Agricultur al Waste Only	Burning waste in the open
Α	On site	Somerset Farm Cants Drove WISBECH Cambridgeshire PE13 4HN	EPR/TH0777M M/A001	Treating waste exemption	Agricultur al Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising





Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

ID	Location	Site	Reference	Category	Sub- Category	Description
A	On site	Somerset Farm Cants Drove WISBECH Cambridgeshire PE13 4HN	EPR/TH0777M M/A001	Using waste exemption	Agricultur al Waste Only	Spreading waste on agricultural land to confer benefit
A	On site	Somerset Farm Cants Drove WISBECH Cambridgeshire PE13 4HN	EPR/TH0777M M/A001	Using waste exemption	Agricultur al Waste Only	Spreading of plant matter to confer benefit
A	On site	Somerset Farm Cants Drove WISBECH Cambridgeshire PE13 4HN	EPR/TH0777M M/A001	Using waste exemption	Agricultur al Waste Only	Incorporation of ash into soil
С	97m NW	-	WEX250818	Disposing of waste exemption	On a Farm	Burning waste in the open
С	97m NW	-	WEX250818	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
2	296m S	Gull Drove, Gull Drove, Wisbech, PE134BH	WEX107817	Using waste exemption	Not on a farm	Use of waste in construction
3	473m NE	-	WEX284041	Using waste exemption	Not on a farm	Use of waste in construction

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







Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

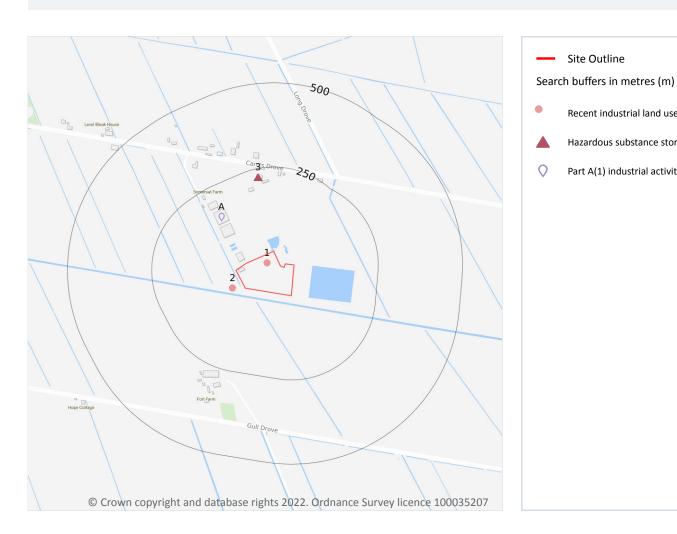
Site Outline

Recent industrial land uses

Part A(1) industrial activities

Hazardous substance storage/usage

# **4** Current industrial land use



# **Records within 250m**

4.1 Recent industrial land uses

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 22

ID	Location	Company	Address	Activity	Category
1	On site	Slurry Bed	Cambridgeshire, PE13	Waste Storage, Processing and Disposal	Infrastructure and Facilities
2	34m SW	Slurry Tank	Cambridgeshire, PE13	Waste Storage, Processing and Disposal	Infrastructure and Facilities

This data is sourced from Ordnance Survey.







Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

#### 4.2 Current or recent petrol stations

# Records within 500m 0 Open, closed, under development and obsolete petrol stations. 7 This data is sourced from Experian. 4.3 Electricity cables Records within 500m 0 High voltage underground electricity transmission cables. 7 This data is sourced from National Grid. 0 4.4 Gas pipelines 0 Records within 500m 0 High pressure underground gas transmission pipelines. 0 This data is sourced from National Grid. 0

#### 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 1	.990.

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.







Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

#### 4.7 Regulated explosive sites

#### Records within 500m

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

This data is sourced from the Health and Safety Executive.

#### 4.8 Hazardous substance storage/usage

#### Records within 500m

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

Features are displayed on the Current industrial land use map on page 22

I	D	Location	Details	
( 7 )		224m N	Application reference number: No Details Application status: Approved Application date: No Details Address: Adapt Biogas Ltd, Somersat Farm, Cants Drove, Murrow, Wisbech, Cambridgeshire, England, PE14 4HN	Details: No Details Enforcement: No details Date of enforcement: No Details Comment: No Details

This data is sourced from Local Authority records.

#### 4.9 Historical licensed industrial activities (IPC)

#### **Records within 500m**

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

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

#### 4.10 Licensed industrial activities (Part A(1))

Records within 500m

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

Features are displayed on the Current industrial land use map on page 22





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Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

ID	Location	Details	
A	155m NW	Operator: MURROW AD PLANT LTD Installation Name: SOMERSET FARM - EPR/FB3133AW Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: DP3334QW Original Permit Number: DP3334QW	EPR Reference: - Issue Date: 17/07/2019 Effective Date: 17/07/2019 Last date noted as effective: 13/06/2022 Status: EFFECTIVE
A	155m NW	Operator: MURROW AD PLANT LTD Installation Name: SOMERSET FARM - EPR/FB3133AW Process: ANIMAL, VEGETABLE AND FOOD; DISPOSING ETC ANIMAL CARCASSES ETC >10 T/DAY Permit Number: DP3334QW Original Permit Number: DP3334QW	EPR Reference: - Issue Date: 17/07/2019 Effective Date: 17/07/2019 Last date noted as effective: 13/06/2022 Status: EFFECTIVE

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

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

#### **Records within 500m**

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

This data is sourced from Local Authority records.

#### 4.12 Radioactive Substance Authorisations

#### **Records within 500m**

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

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

#### 4.13 Licensed Discharges to controlled waters

#### Records within 500m

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

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



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#### 4.14 Pollutant release to surface waters (Red List)

#### **Records within 500m**

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

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

#### 4.15 Pollutant release to public sewer

#### **Records within 500m**

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

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**

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

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

#### 4.18 Pollution Incidents (EA/NRW)

#### Records within 500m

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

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





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#### 4.19 Pollution inventory substances

#### **Records within 500m**

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

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

#### 4.20 Pollution inventory waste transfers

#### Records within 500m

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

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

#### 4.21 Pollution inventory radioactive waste

#### Records within 500m

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

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





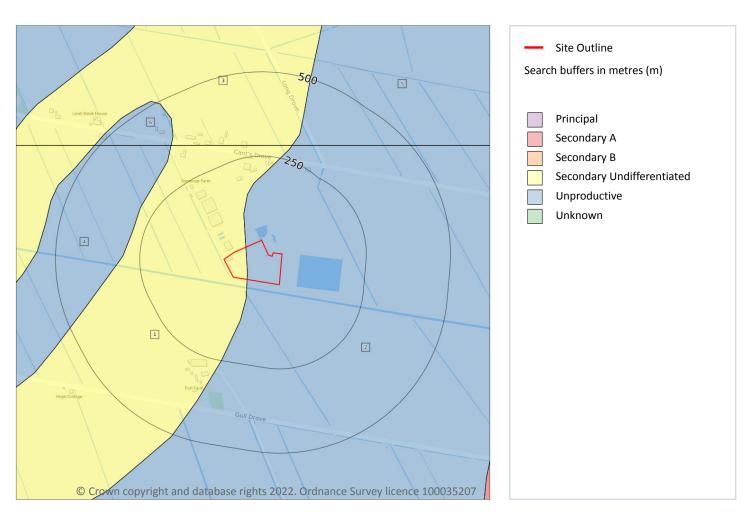
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**Ref**: GS-9090856 **Your ref**: Murrow\_AD\_Site **Grid ref**: 537304 304652

# 5 Hydrogeology - Superficial aquifer



#### **5.1 Superficial aquifer**

Records within 500m	6
Aquifer status of groundwater held within superficial geology.	
Features are displayed on the Hydrogeology map on page 28	

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





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ID	Location	Designation	Description
3	282m N	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
4	283m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	296m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
6	368m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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







**Ref**: GS-9090856 **Your ref**: Murrow\_AD\_Site **Grid ref**: 537304 304652

# **Bedrock aquifer**



#### 5.2 Bedrock aquifer

Records within 500m						
	Aquifer status of groundwater held within bedrock geology. Features are displayed on the Bedrock aquifer map on <b>page 30</b>					
. cu	reatures are displayed on the bearber aquiter map on <b>page 30</b>					
ID	Location	Designation	Description			

ID.	LOCATION	Designation	Description		
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow		
2	282m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow		

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

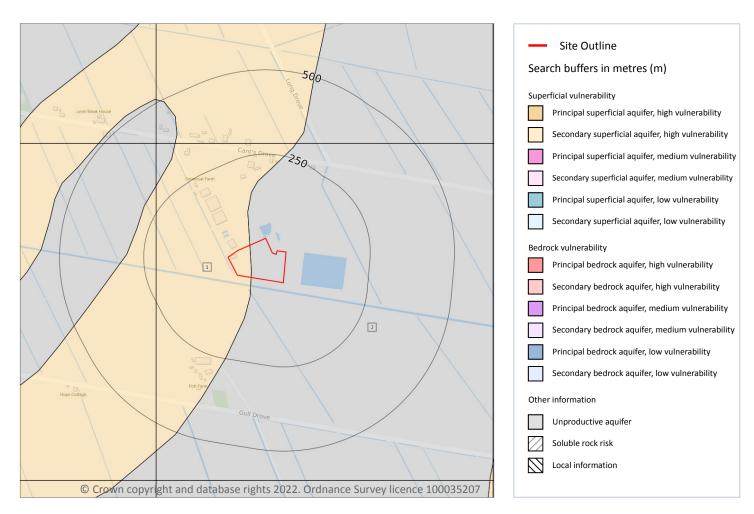






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# **Groundwater vulnerability**



#### 5.3 Groundwater vulnerability

#### **Records within 50m**

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 31







Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
2	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive 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	0			
This dataset identifies areas where solution features that enable rapid movement of a pollutant may be				
present within a 1km grid square.				

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

#### 5.5 Groundwater vulnerability- local information

#### **Records on site**

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.







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# **Abstractions and Source Protection Zones**





#### 5.6 Groundwater abstractions

#### **Records within 2000m**

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

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







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#### 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.

Features are displayed on the Abstractions and Source Protection Zones map on page 33

ID	Location	Details	
-	1671m W	Status: Historical Licence No: AN/033/0053/028 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: DRAIN IN WHITTLESEY & DISTRICT IDB Data Type: Line Name: P & L Hayes (Farms) Limited Easting: 535535 Northing: 300683	Annual Volume (m <sup>3</sup> ): 10480 Max Daily Volume (m <sup>3</sup> ): 1090.8 Original Application No: - Original Start Date: 20/05/2011 Expiry Date: 31/03/2025 Issue No: 7 Version Start Date: 25/04/2019 Version End Date: -

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

#### 5.8 Potable abstractions

#### Records within 2000m

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

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

#### **5.9 Source Protection Zones**

**Records within 500m** 

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

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

#### 5.10 Source Protection Zones (confined aquifer)

#### **Records within 500m**

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





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Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

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



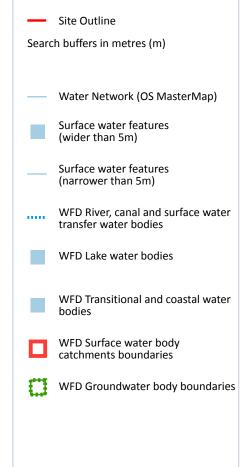




Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

# 6 Hydrology





#### 6.1 Water Network (OS MasterMap)

#### **Records within 250m**

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

Features are displayed on the Hydrology map on page 36

ID	Location	Type of water feature	Ground level	Permanence	Name
В	7m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-







ID	Location	Type of water feature	Ground level	Permanence	Name
С	9m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
С	24m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
С	24m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	24m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
С	24m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	35m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	80m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	80m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	84m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
В	93m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	99m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	158m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
Н	158m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-







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ID	Location	Type of water feature	Ground level	Permanence	Name
5	158m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	183m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	219m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
J	226m 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

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 36

This data is sourced from the Ordnance Survey.

## 6.3 WFD Surface water body catchments

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

Features are displayed on the Hydrology map on page 36

ID	Location	Туре	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	North Level Pumped Areas 2 and 3	GB205032050385	Nene Lower	Nene

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



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### 6.4 WFD Surface water bodies

#### **Records identified**

1

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.

Features are displayed on the Hydrology map on page 36

ID	Location	Туре	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	3049m SW	River	North Level Pumped Areas 2 and 3	<u>GB205032050385</u>	Moderate	Fail	Moderate	2019

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

## 6.5 WFD Groundwater bodies

Records on site	0
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Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

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

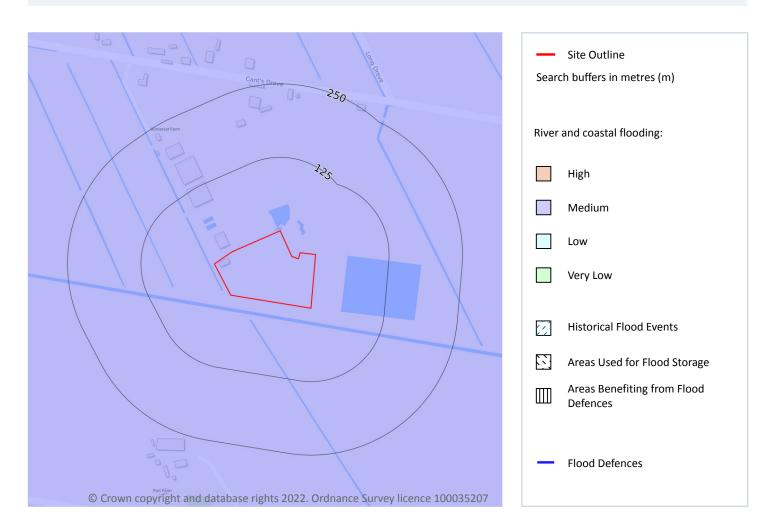






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## 7 River and coastal flooding



## 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 1000 chance). Medium (less than 1 in 30 but greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 0 requal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance), Medium (less than 1 in 200 but greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance), Medium (less than 1 in 200 but greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance), Medium (less than 1 in 200 but greater than or equal to 1 in 30 chance). Or High (greater than or equal to 1 in 30 chance) or High (greater than or equal to 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 40







Ref: GS-9090856 Your ref: Murrow\_AD\_Site Grid ref: 537304 304652

Distance	Flood risk category
On site	Medium

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

## 7.2 Historical Flood Events

#### Records within 250m

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

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

### 7.3 Flood Defences

#### **Records within 250m**

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

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

### 7.4 Areas Benefiting from Flood Defences

#### **Records within 250m**

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

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

## 7.5 Flood Storage Areas

#### Records within 250m

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

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





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## **River and coastal flooding - Flood Zones**



## 7.6 Flood Zone 2

#### Records within 50m

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

Features are displayed on the River and coastal flooding map on page 40

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

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







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## 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 40

Location	Туре
On site	Zone 3 - (Fluvial Models)

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

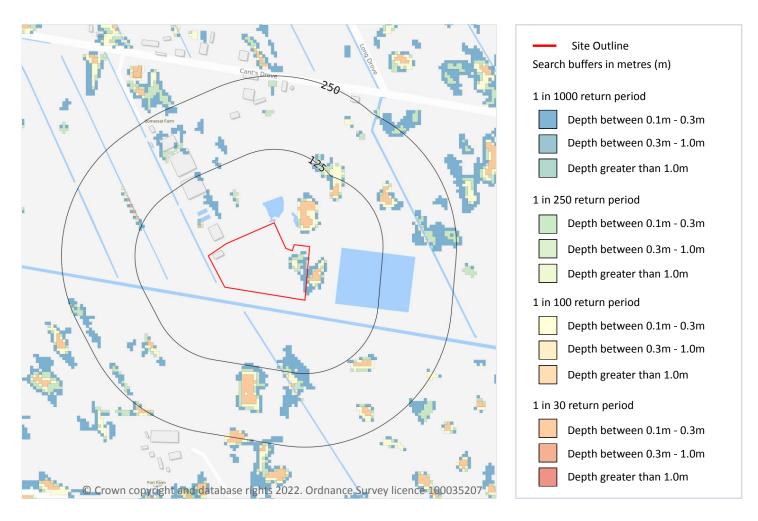






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## 8 Surface water flooding



## 8.1 Surface water flooding

#### Highest risk on site

1 in 100 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 44

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







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

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

This data is sourced from Ambiental Risk Analytics.







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## 9 Groundwater flooding



## 9.1 Groundwater flooding

Highest risk on site	Low
Highest risk within 50m	Low

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 46

This data is sourced from Ambiental Risk Analytics.







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## **10** Environmental designations

### **10.1 Sites of Special Scientific Interest (SSSI)**

#### **Records within 2000m**

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

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

## 10.2 Conserved wetland sites (Ramsar sites)

#### **Records within 2000m**

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

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

## **10.3 Special Areas of Conservation (SAC)**

#### **Records within 2000m**

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

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

## **10.4 Special Protection Areas (SPA)**

#### **Records within 2000m**

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

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





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#### **10.5 National Nature Reserves (NNR)**

#### **Records within 2000m**

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

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

### 10.6 Local Nature Reserves (LNR)

#### **Records within 2000m**

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

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

#### **10.7 Designated Ancient Woodland**

#### Records within 2000m

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

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

#### **10.8 Biosphere Reserves**

Records within 2000m

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

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





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### **10.9 Forest Parks**

#### **Records within 2000m**

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

This data is sourced from the Forestry Commission.

### **10.10 Marine Conservation Zones**

#### **Records within 2000m**

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

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

#### 10.11 Green Belt

**Records within 2000m** 

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

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

#### **10.12 Proposed Ramsar sites**

Record	s within	2000m
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Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

### **10.13** Possible Special Areas of Conservation (pSAC)

#### Records within 2000m

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

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





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## **10.14 Potential Special Protection Areas (pSPA)**

#### **Records within 2000m**

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

This data is sourced from Natural England.

#### **10.15 Nitrate Sensitive Areas**

#### **Records within 2000m**

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

This data is sourced from Natural England.

#### **10.16 Nitrate Vulnerable Zones**

#### **Records within 2000m**

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





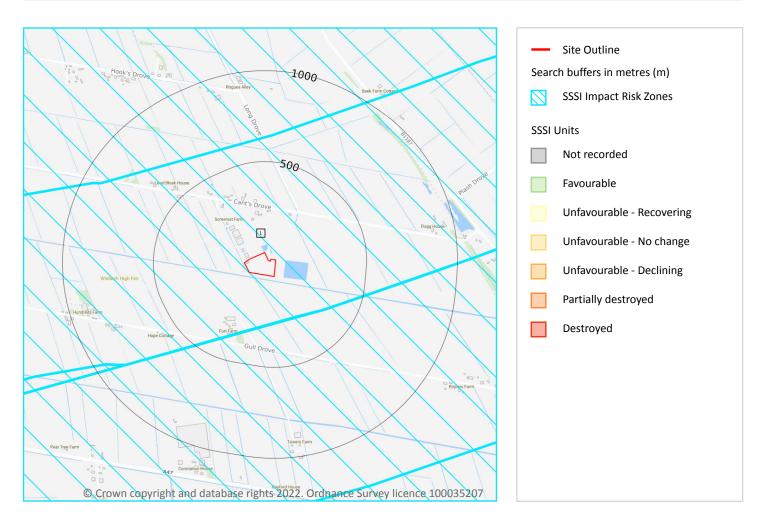
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## **SSSI Impact Zones and Units**



## 10.17 SSSI Impact Risk Zones

#### **Records on site**

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 51







IC	Location	Type of developments requiring consultation
1	On site	<ul> <li>Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals.</li> <li>Wind and Solar - Solar schemes with footprint &gt; 0.5ha, all wind turbines.</li> <li>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil &amp; gas exploration/extraction.</li> <li>Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha.</li> <li>Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas.</li> <li>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t).</li> <li>Combustion - General combustion processes &gt;50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</li> <li>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</li> <li>Discharges - Any discharge of water or liquid waste of more than 5m<sup>3</sup>/day to ground (ie to seep away) or to surface water, such as a beck or stream.</li> </ul>

This data is sourced from Natural England.

### 10.18 SSSI Units

#### Records within 2000m

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

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**

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

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

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

## **11.3 National Parks**

#### **Records within 250m**

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

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

## **11.4 Listed Buildings**

#### Records within 250m

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





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

### **11.5 Conservation Areas**

#### Records within 250m

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

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

### **11.6 Scheduled Ancient Monuments**

#### **Records within 250m**

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

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

## **11.7 Registered Parks and Gardens**

#### Records within 250m

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

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





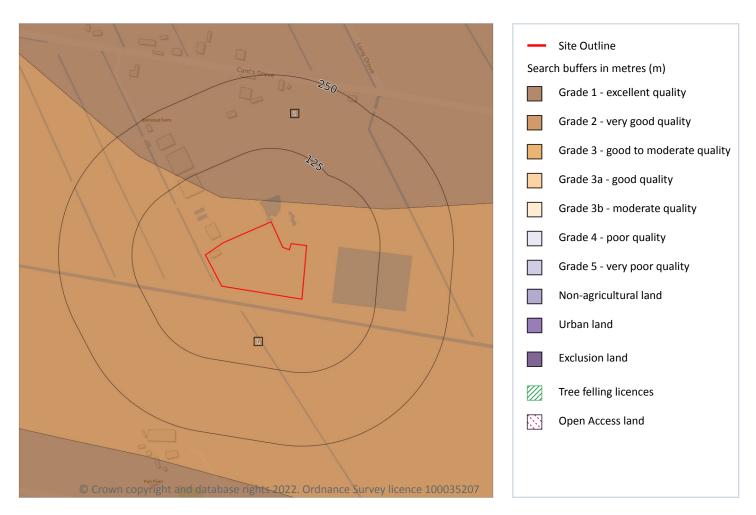
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## **12** Agricultural designations



## **12.1 Agricultural Land Classification**

#### Records within 250m

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 55







ID	Location	Classification	Description
1	On site	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
2	35m N	Grade 1	Excellent quality agricultural land. Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.

This data is sourced from Natural England.

## 12.2 Open Access Land

Records within 250m
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The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

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

## **12.3 Tree Felling Licences**

#### Records within 250m

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

This data is sourced from the Forestry Commission.

## **12.4 Environmental Stewardship Schemes**

#### Records within 250m

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

This data is sourced from Natural England.

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### **12.5 Countryside Stewardship Schemes**

#### Records within 250m

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

This data is sourced from Natural England.







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## **13 Habitat designations**

## **13.1 Priority Habitat Inventory**

**Records within 250m** 

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

This data is sourced from Natural England.

### **13.2 Habitat Networks**

#### Records within 250m

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

This data is sourced from Natural England.

## 13.3 Open Mosaic Habitat

#### **Records within 250m**

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

This data is sourced from Natural England.

## **13.4 Limestone Pavement Orders**

#### **Records within 250m**

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

This data is sourced from Natural England.





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**Ref**: GS-9090856 **Your ref**: Murrow\_AD\_Site **Grid ref**: 537304 304652

## 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 59

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	TF30SE
2	282m N	No coverage	Full	Full	No coverage	TF30NE

This data is sourced from the British Geological Survey.







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

## 14.2 Artificial and made ground (10k)

#### **Records within 500m**

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

This data is sourced from the British Geological Survey.

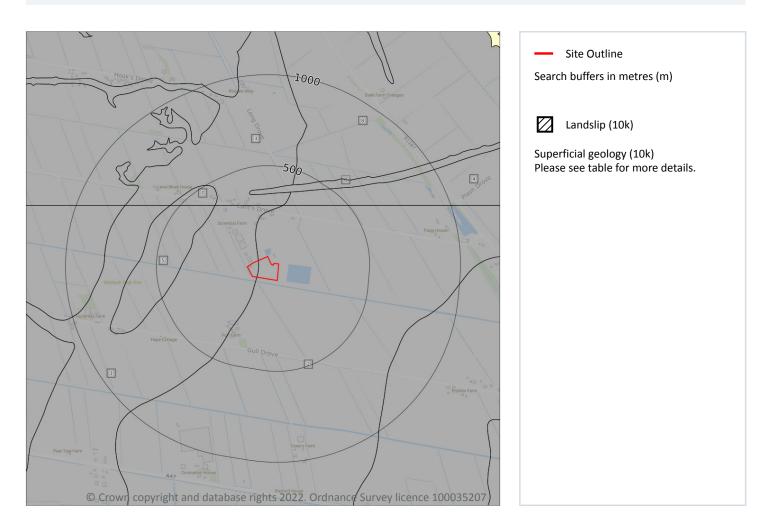






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## Geology 1:10,000 scale - Superficial



## 14.3 Superficial geology (10k)

#### **Records within 500m**

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on page 61

ID	Location	LEX Code	Description	Rock description
1	On site	BYD-XSZ	Barroway Drove Beds - Sand And Silt	Sand And Silt
2	On site	BYD-XCZ	Barroway Drove Beds - Clay And Silt	Clay And Silt
3	282m N	BYD-XSZ	Barroway Drove Beds - Sand And Silt	Sand And Silt
4	294m N	BYD-XCZ	Barroway Drove Beds - Clay And Silt	Clay And Silt



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ID	Location	LEX Code	Description	Rock description
5	327m W	BYD-XCZ	Barroway Drove Beds - Clay And Silt	Clay And Silt
6	344m N	TTB-XCZ	Terrington Beds - Clay And Silt	Clay And Silt
7	379m NW	BYD-XCZ	Barroway Drove Beds - Clay And Silt	Clay And Silt
8	417m N	BYD-XCZ	Barroway Drove Beds - Clay And Silt	Clay And Silt

This data is sourced from the British Geological Survey.

## 14.4 Landslip (10k)

## Records within 500m

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

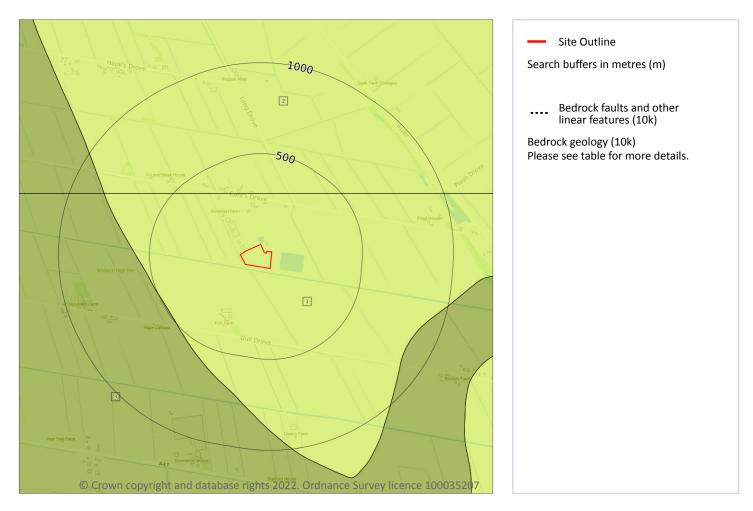
This data is sourced from the British Geological Survey.





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## Geology 1:10,000 scale - Bedrock



## 14.5 Bedrock geology (10k)

#### Records within 500m

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on page 63

ID	Location	LEX Code	Description	Rock age
1	On site	WWAC- MDST	West Walton Formation And Ampthill Clay Formation (undifferentiated) - Mudstone	Oxfordian Age
2	282m N	WWAC- MDST	West Walton Formation And Ampthill Clay Formation (undifferentiated) - Mudstone	Oxfordian Age
3	492m SW	OXC-MDST	Oxford Clay Formation - Mudstone	Oxfordian Age - Callovian Age







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This data is sourced from the British Geological Survey.

## 14.6 Bedrock faults and other linear features (10k)

#### **Records within 500m**

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

This data is sourced from the British Geological Survey.

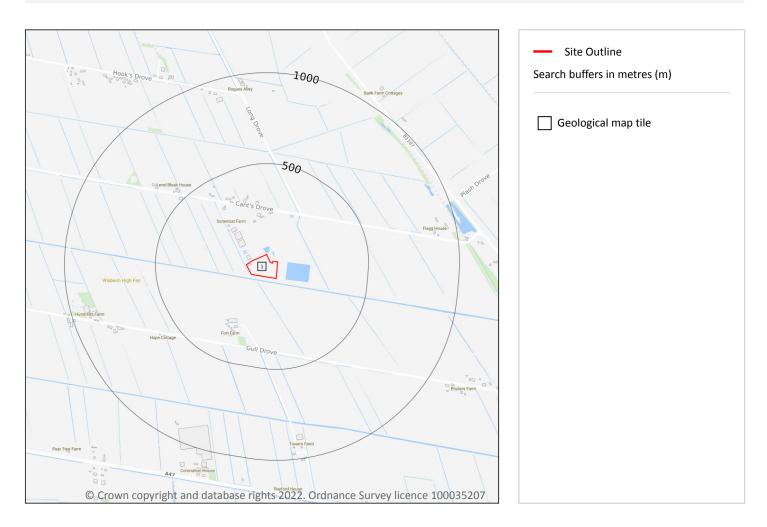






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## 15 Geology 1:50,000 scale - Availability



## 15.1 50k Availability

#### Records within 500m

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

Features are displayed on the Geology 1:50,000 scale - Availability map on page 65

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	EW158_peterborough_v4

This data is sourced from the British Geological Survey.







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

### 15.2 Artificial and made ground (50k)

**Records within 500m** 

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

This data is sourced from the British Geological Survey.

## 15.3 Artificial ground permeability (50k)

Records within 50m

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

This data is sourced from the British Geological Survey.

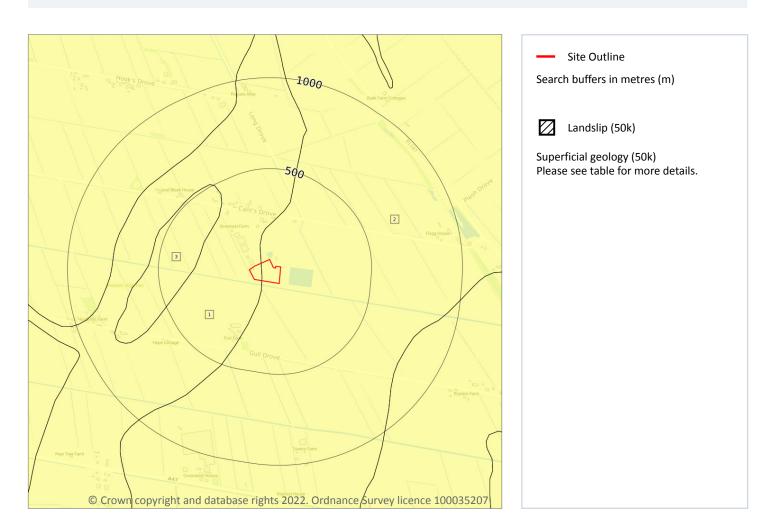






**Ref**: GS-9090856 **Your ref**: Murrow\_AD\_Site **Grid ref**: 537304 304652

## Geology 1:50,000 scale - Superficial



## 15.4 Superficial geology (50k)

#### Records within 500m

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on page 67

ID	Location	LEX Code	Description	Rock description
1	On site	TFD1-XSZ	TIDAL FLAT DEPOSITS, 1	SAND AND SILT
2	On site	TFD1-XCZ	TIDAL FLAT DEPOSITS, 1	CLAY AND SILT

This data is sourced from the British Geological Survey.







## 15.5 Superficial permeability (50k)

# Records within 50m 2

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	Mixed	Low	Very Low
On site	Intergranular	High	Moderate

This data is sourced from the British Geological Survey.

## 15.6 Landslip (50k)

Records within 500m 0
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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
۸	qualitative classification of estimated rates of vertical mevement of water from the ground surface	through

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

This data is sourced from the British Geological Survey.

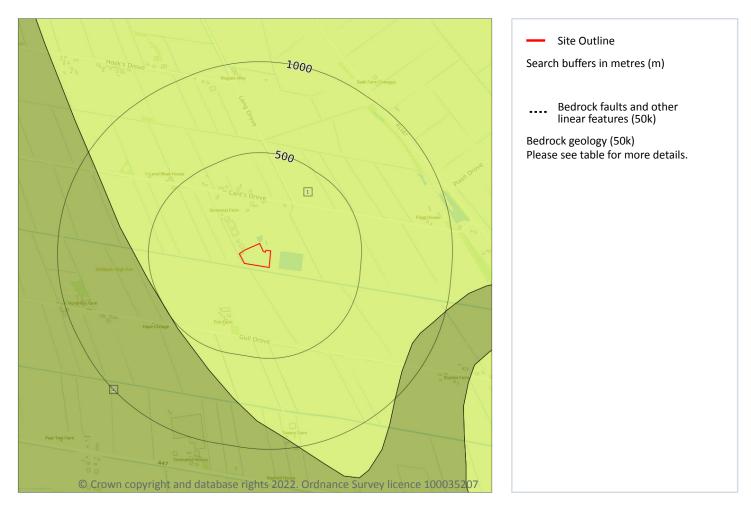






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## Geology 1:50,000 scale - Bedrock



## 15.8 Bedrock geology (50k)

#### Records within 500m

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on page 69

ID	Location	LEX Code	Description	Rock age
1	On site	WWAC- MDST	WEST WALTON FORMATION AND AMPTHILL CLAY OXFORDIAN FORMATION (UNDIFFERENTIATED) - MUDSTONE	
2	499m SW	OXC-MDST	OXFORD CLAY FORMATION - MUDSTONE	CALLOVIAN

This data is sourced from the British Geological Survey.







## 15.9 Bedrock permeability (50k)

Records within 50m 1
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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	Low	Very Low

This data is sourced from the British Geological Survey.

## 15.10 Bedrock faults and other linear features (50k)

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** 

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.

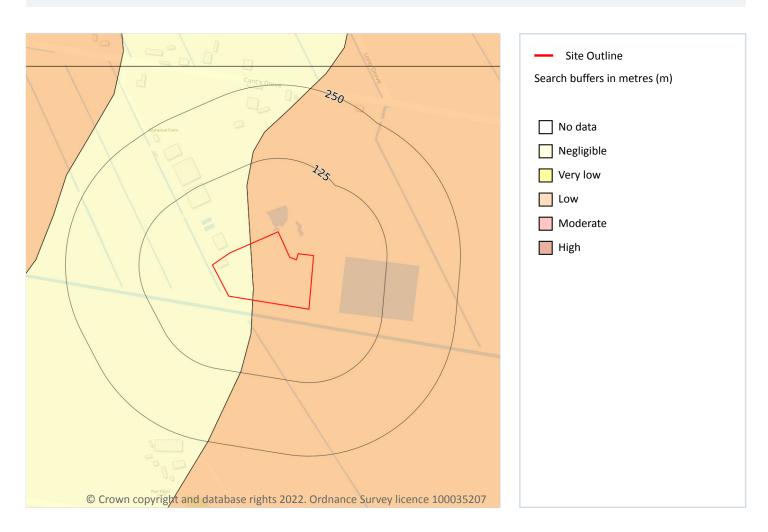
This data is sourced from the British Geological Survey.







## 17 Natural ground subsidence - Shrink swell clays



## 17.1 Shrink swell clays

#### Records within 50m

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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on page 72

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Low	Ground conditions predominantly medium plasticity.

This data is sourced from the British Geological Survey.







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# Natural ground subsidence - Running sands



## 17.2 Running sands

#### Records within 50m

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

Features are displayed on the Natural ground subsidence - Running sands map on page 73

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







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Location	Hazard rating	Details
On site	High	Running sand conditions are almost certainly present. Constraints will apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.







# Natural ground subsidence - Compressible deposits



# **17.3 Compressible deposits**

#### **Records within 50m**

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on page 75

Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.







# Natural ground subsidence - Collapsible deposits



# **17.4 Collapsible deposits**

#### **Records within 50m**

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

Features are displayed on the Natural ground subsidence - Collapsible deposits map on page 76

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

This data is sourced from the British Geological Survey.







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# Natural ground subsidence - Landslides



# 17.5 Landslides

#### **Records within 50m**

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

Features are displayed on the Natural ground subsidence - Landslides map on page 77

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

This data is sourced from the British Geological Survey.







# Natural ground subsidence - Ground dissolution of soluble rocks



# **17.6 Ground dissolution of soluble rocks**

#### **Records within 50m**

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on page 78

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

This data is sourced from the British Geological Survey.







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# 18 Mining, ground workings and natural cavities

## **18.1 Natural cavities**

#### **Records within 500m**

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

This data is sourced from Stantec UK Ltd.

#### 18.2 BritPits

Records within 500m

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

This data is sourced from the British Geological Survey.

## 18.3 Surface ground workings

Records within 250m

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

This is data is sourced from Ordnance Survey/Groundsure.

## **18.4 Underground workings**

Records within 1000m

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.





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#### **18.5 Historical Mineral Planning Areas**

#### Records within 500m

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

This data is sourced from the British Geological Survey.

## **18.6 Non-coal mining**

#### **Records within 1000m**

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

This data is sourced from the British Geological Survey.

## **18.7 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.

# 18.8 JPB mining areas

**Records on site** 

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

This data is sourced from Johnson Poole and Bloomer.

# **18.9 Coal mining**

#### **Records on site**

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

This data is sourced from the Coal Authority.





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#### 18.10 Brine areas

#### Records on site

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

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

#### 18.11 Gypsum areas

**Records on site** 

#### Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

## 18.12 Tin mining

#### **Records on site**

#### Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

## 18.13 Clay mining

#### Records on site

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

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





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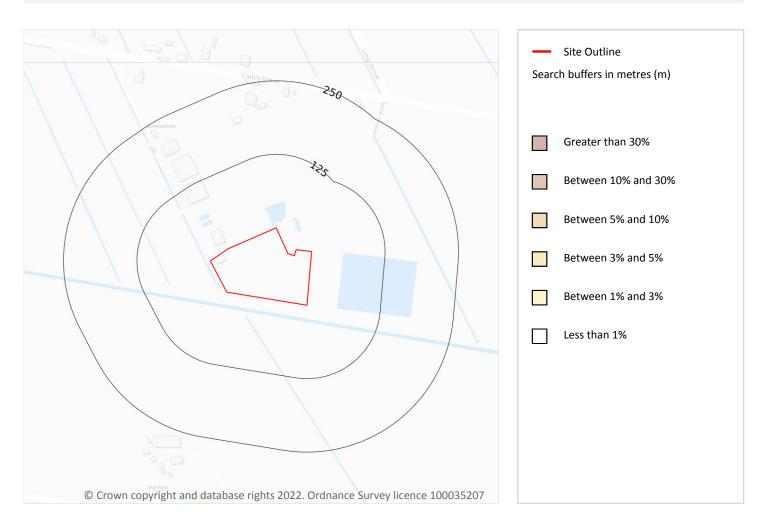
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# 19 Radon



# **19.1 Radon**

#### **Records on site**

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

Features are displayed on the Radon map on page 82

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

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







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# 20 Soil chemistry

# 20.1 BGS Estimated Background Soil Chemistry

#### **Records within 50m**

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km<sup>2</sup>. 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 km<sup>2</sup>; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

# 20.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0
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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 km<sup>2</sup>).

This data is sourced from the British Geological Survey.

# 20.3 BGS Measured Urban Soil Chemistry

#### Records within 50m

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km<sup>2</sup>.

This data is sourced from the British Geological Survey.







# 21 Railway infrastructure and projects

# 21.1 Underground railways (London)

#### **Records within 250m**

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

This data is sourced from publicly available information by Groundsure.

# 21.2 Underground railways (Non-London)

#### Records within 250m

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

This data is sourced from publicly available information by Groundsure.

## 21.3 Railway tunnels

Records within 250m

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

# **21.4 Historical railway and tunnel features**

#### Records within 250m

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

This data is sourced from Ordnance Survey/Groundsure.

# 21.5 Royal Mail tunnels

#### **Records within 250m**

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





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This data is sourced from Groundsure/the Postal Museum.

## **21.6 Historical railways**

# Records within 250m0Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed<br/>lines.This data is sourced from OpenStreetMap.

# 21.7 Railways

**Records within 250m** 

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

# 21.8 Crossrail 1

#### Records within 500m

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

This data is sourced from publicly available information by Groundsure.

# 21.9 Crossrail 2

#### **Records within 500m**

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

This data is sourced from publicly available information by Groundsure.

## 21.10 HS2

#### **Records within 500m**

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

This data is sourced from HS2 ltd.



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# Data providers

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

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