# Appendix C

**Groundsure Enviro Insight Report** 





# **Order Details**

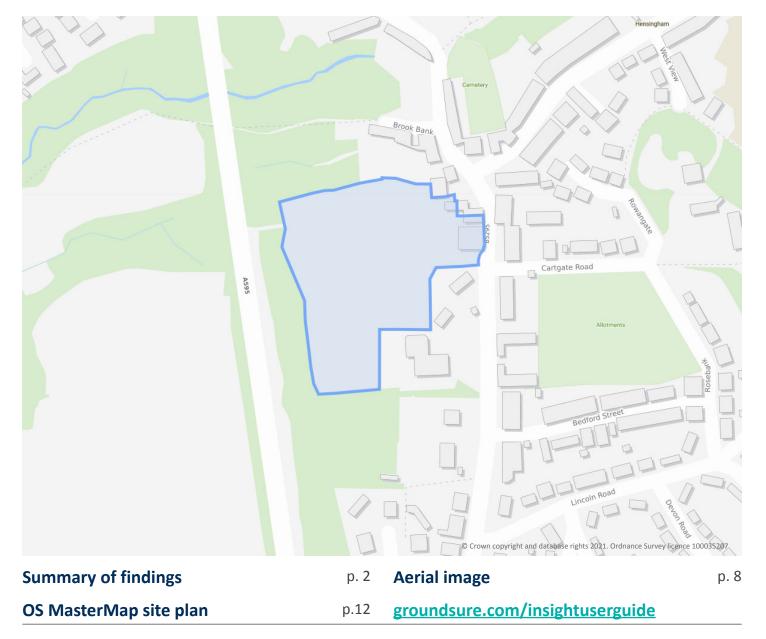
Date:	20/12/2021		
Your ref:	MGL_1661		

Our Ref: GS-8409786

Client: Meridian Geoscience

# **Site Details**

Location:298528 516722Area:2.01 haAuthority:Copeland Borough Council





# **Summary of findings**

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>13</u>	<u>1.1</u>	Historical industrial land uses	0	0	4	23	-
<u>15</u>	<u>1.2</u>	Historical tanks	0	1	2	2	-
<u>15</u>	<u>1.3</u>	Historical energy features	0	0	1	7	-
16	1.4	Historical petrol stations	0	0	0	0	-
<u>16</u>	<u>1.5</u>	Historical garages	0	0	0	1	-
16	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
<u>17</u>	<u>2.1</u>	Historical industrial land uses	0	0	6	29	-
<u>19</u>	<u>2.2</u>	Historical tanks	0	1	3	2	-
<u>19</u>	<u>2.3</u>	Historical energy features	0	0	1	10	-
20	2.4	Historical petrol stations	0	0	0	0	-
<u>20</u>	<u>2.5</u>	Historical garages	0	0	0	1	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
21	3.1	Active or recent landfill	0	0	0	0	-
21	3.2	Historical landfill (BGS records)	0	0	0	0	-
<u>22</u>	<u>3.3</u>	Historical landfill (LA/mapping records)	0	0	0	3	-
<u>22</u>	<u>3.4</u>	Historical landfill (EA/NRW records)	0	0	1	2	-
23	3.5	Historical waste sites	0	0	0	0	-
23	3.6	Licensed waste sites	0	0	0	0	-
23	3.7	Waste exemptions	0	0	0	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>24</u>	<u>4.1</u>	Recent industrial land uses	0	0	2	-	-
<u>25</u>	<u>4.2</u>	Current or recent petrol stations	0	0	0	1	-
	4.3	Electricity cables	0	0	0	0	-
25	4.3	,					
25	4.3	Gas pipelines	0	0	0	0	-
			0	0	0 0	0 0	-





<ul> <li>35</li> <li>36</li> <li>37</li> <li>38</li> <li>39</li> <li>39</li> <li>Page</li> </ul>	<ul> <li>5.3</li> <li>5.4</li> <li>5.5</li> <li>5.6</li> <li>5.7</li> <li>5.8</li> <li>5.9</li> <li>5.10</li> <li>Section</li> </ul>	Groundwater vulnerabilityGroundwater vulnerability- soluble rock riskGroundwater vulnerability- local informationGroundwater abstractionsSurface water abstractionsPotable abstractionsSource Protection ZonesSource Protection Zones (confined aquifer)Hydrology	Identified ( Identified ( None (with 0 0 0 0 0 0 0 0		0 0 0 0 0 50-250m	0 0 0 0 0 250-500m	0 2 0 - 500-2000m
<ul> <li>36</li> <li>37</li> <li>38</li> <li>39</li> </ul>	5.5 5.6 5.8 5.8 5.9	Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions Surface water abstractions Potable abstractions Source Protection Zones	Identified ( None (with 0 0 0 0	within Om) in Om) 0 0 0 0	0 0 0 0	0 0 0	2
<u>36</u> 36 37 <u>38</u> 38	5.5 5.6 5.7 5.8	Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions Surface water abstractions Potable abstractions	Identified ( None (with 0 0 0	within Om) in Om) O O	0 0 0	0	2
<u>36</u> 36 37 <u>38</u>	<u>5.4</u> 5.5 5.6 <u>5.7</u>	Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions Surface water abstractions	Identified ( None (with 0 0	within Om) in Om) O	0	0	2
<b>36</b> 36 37	<b>5.4</b> 5.5 5.6	Groundwater vulnerability- soluble rock risk Groundwater vulnerability- local information Groundwater abstractions	Identified ( None (with 0	within Om) in Om) O	0		
<u>36</u> 36	<b>5.4</b> 5.5	Groundwater vulnerability- soluble rock risk	Identified (	within Om) in Om)		0	0
<u>36</u>	<u>5.4</u>	Groundwater vulnerability- soluble rock risk	Identified (	within 0m)			
<u>35</u>	<u>5.3</u>	Groundwater vulnerability	Identified (	within 50m)			
<u>34</u>	<u>5.2</u>	Bedrock aquifer	Identified (	within 500m	)		
<u>32</u>	<u>5.1</u>	Superficial aquifer	Identified (	within 500m	)		
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
31	4.21	Pollution inventory radioactive waste	0	0	0	0	-
30	4.20	Pollution inventory waste transfers	0	0	0	0	-
30	4.19	Pollution inventory substances	0	0	0	0	-
<u>29</u>	<u>4.18</u>	Pollution Incidents (EA/NRW)	0	0	2	2	-
29	4.17	List 2 Dangerous Substances	0	0	0	0	-
29	4.16	List 1 Dangerous Substances	0	0	0	0	-
29	4.15	Pollutant release to public sewer	0	0	0	0	-
29	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
<u>27</u>	<u>4.13</u>	Licensed Discharges to controlled waters	0	0	10	0	-
27	4.12	Radioactive Substance Authorisations	0	0	0	0	-
26	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	_
26	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
26	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	_
26	4.8	Hazardous substance storage/usage	0	0	0	0	_
	4.7	Regulated explosive sites	0	0	0	0	-
26							





<u>42</u>	<u>6.2</u>	Surface water features	0	1	7	-	-
<u>42</u>	<u>6.3</u>	WFD Surface water body catchments	1	-	-	-	-
42	6.4	WFD Surface water bodies	0	0	0	-	-
<u>43</u>	<u>6.5</u>	WFD Groundwater bodies	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
<u>44</u>	<u>7.1</u>	Risk of flooding from rivers and the sea	High (withi	n 50m)			
45	7.2	Historical Flood Events	0	0	0	-	-
45	7.3	Flood Defences	0	0	0	-	-
45	7.4	Areas Benefiting from Flood Defences	0	0	0	_	-
45	7.5	Flood Storage Areas	0	0	0	_	-
<u>46</u>	<u>7.6</u>	Flood Zone 2	Identified (	within 50m)			
<u>47</u>	<u>7.7</u>	Flood Zone 3	Identified (	within 50m)			
Page	Section	Surface water flooding					
<u>48</u>	<u>8.1</u>	Surface water flooding	1 in 30 yea	r, Greater tha	an 1.0m (wit	hin 50m)	
Page	Section	Groundwater flooding					
<u>50</u>	<u>9.1</u>	Groundwater flooding	Low (within	n 50m)			
<b>50</b> Page	<u>9.1</u> Section	Groundwater flooding Environmental designations	Low (within On site	n 50m) 0-50m	50-250m	250-500m	500-2000m
					50-250m 0	250-500m ()	500-2000m 1
Page	Section	Environmental designations	On site	0-50m			
Page <u>51</u>	Section <u>10.1</u>	Environmental designations Sites of Special Scientific Interest (SSSI)	On site O	0-50m 0	0	0	1
<b>Page</b> 51	Section <u>10.1</u> 10.2	Environmental designations <u>Sites of Special Scientific Interest (SSSI)</u> Conserved wetland sites (Ramsar sites)	On site O O	0-50m 0 0	0	0	1 0
<b>Page</b> 51 52	Section <u>10.1</u> 10.2 10.3	Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC)	On site 0 0 0	0-50m 0 0	0 0 0	0 0 0	<b>1</b> 0 0
Page 51 52 52 52	Section <u>10.1</u> 10.2 10.3 10.4	Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA)	<b>On site</b> 0 0 0 0 0 0	0-50m 0 0 0	0 0 0 0	0 0 0 0	1 0 0 0
Page 51 52 52 52 52	Section <u>10.1</u> 10.2 10.3 10.4 10.5	Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR)	On site 0 0 0 0 0 0 0 0	0-50m 0 0 0 0	0 0 0 0	0 0 0 0 0	1 0 0 0 0
Page 51 52 52 52 52 53	Section 10.1 10.2 10.3 10.4 10.5 10.6	Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR) Local Nature Reserves (LNR)	On site 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	1 0 0 0 0 0
Page         51         52         52         52         52         52         53         53	Section 10.1 10.2 10.3 10.4 10.5 10.6 10.6 10.7	Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR) Local Nature Reserves (LNR) Designated Ancient Woodland	On site 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0			1 0 0 0 0 0 5
Page         51         52         52         52         52         53         53         53	Section 10.1 10.2 10.3 10.4 10.5 10.6 10.6 10.7 10.8	Environmental designations Sites of Special Scientific Interest (SSSI) Conserved wetland sites (Ramsar sites) Special Areas of Conservation (SAC) Special Protection Areas (SPA) National Nature Reserves (NNR) Local Nature Reserves (LNR) Designated Ancient Woodland Biosphere Reserves	On site 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0 0 0			1 0 0 0 0 0 5 0
Page         51         52         52         52         52         53         53         53         53         53         53         53         54	Section 10.1 10.2 10.3 10.4 10.5 10.6 10.6 10.7 10.8 10.9	Environmental 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			1 0 0 0 0 0 5 0 0 0
<b>Page 51</b> 52         52         52         52         53 <b>53</b> 53         54	Section 10.1 10.2 10.3 10.4 10.5 10.6 10.6 10.7 10.8 10.9 10.10	Environmental designationsSites of Special Scientific Interest (SSSI)Conserved wetland sites (Ramsar sites)Conserved wetland sites (Ramsar sites)Special Areas of Conservation (SAC)Special Protection Areas (SPA)National Nature Reserves (NNR)Local Nature Reserves (LNR)Designated Ancient WoodlandBiosphere ReservesForest ParksMarine Conservation Zones	On site 0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0 0 0 0 0 0 0 0 0			1 0 0 0 0 0 5 0 0 0 0 0





54	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
55	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
55	10.15	Nitrate Sensitive Areas	0	0	0	0	0
<u>55</u>	<u>10.16</u>	Nitrate Vulnerable Zones	0	0	0	0	2
<u>56</u>	<u>10.17</u>	SSSI Impact Risk Zones	2	-	-	-	-
<u>57</u>	<u>10.18</u>	<u>SSSI Units</u>	0	0	0	0	1
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
59	11.1	World Heritage Sites	0	0	0	-	-
60	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
60	11.3	National Parks	0	0	0	-	-
<u>60</u>	<u>11.4</u>	Listed Buildings	0	1	8	-	-
<u>61</u>	<u>11.5</u>	Conservation Areas	1	0	0	-	-
61	11.6	Scheduled Ancient Monuments	0	0	0	-	-
62	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
<u>63</u>	<u>12.1</u>	Agricultural Land Classification	Urban (wit	hin 250m)			
<u>63</u> 64	<u>12.1</u> 12.2	Agricultural Land Classification Open Access Land	Urban (wit 0	hin 250m) 0	0	-	-
					0 6	-	-
64	12.2	Open Access Land	0	0		-	-
64 <u>64</u>	12.2 <b>12.3</b>	Open Access Land <u>Tree Felling Licences</u>	0	0	6	-	- - -
64 <u>64</u> <u>64</u>	12.2 <b>12.3</b> <b>12.4</b>	Open Access Land <u>Tree Felling Licences</u> <u>Environmental Stewardship Schemes</u>	0 2 0	0 1 0	6	- - - 250-500m	- - - 500-2000m
64 <u>64</u> 65	12.2 <b>12.3</b> <b>12.4</b> 12.5	Open Access Land <u>Tree Felling Licences</u> <u>Environmental Stewardship Schemes</u> Countryside Stewardship Schemes	0 2 0 0	0 1 0 0	6 1 0	- - - 250-500m	- - - 500-2000m
64 64 65 Page	12.2 <b>12.3</b> <b>12.4</b> 12.5 Section	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations	0 2 0 0 On site	0 1 0 0 0-50m	6 1 0 50-250m	- - - 250-500m -	- - - 500-2000m -
64 64 65 Page 66	12.2 <b>12.3</b> <b>12.4</b> 12.5 Section <b>13.1</b>	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations Priority Habitat Inventory	0 2 0 0 0 0 0 0 2	0 1 0 0 0-50m 3	6 1 0 50-250m 9	- - - 250-500m - -	- - - 500-2000m - -
64 64 65 Page 66 67	12.2 <b>12.3</b> <b>12.4</b> 12.5 <b>Section</b> <b>13.1</b> 13.2	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations Priority Habitat Inventory Habitat Networks	0 2 0 0 0 0 0 2 0	0 1 0 0 0-50m 3 0	6 1 0 50-250m 9 0	- - - 250-500m - -	- - - 500-2000m - - -
64 64 65 Page 66 67 67	12.2 <b>12.3</b> <b>12.4</b> 12.5 <b>Section</b> <b>13.1</b> 13.2 13.3	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations Priority Habitat Inventory Habitat Networks Open Mosaic Habitat	0 2 0 0 0 0 0 2 0 0 0	0 1 0 0 0-50m 3 0 0	6 1 0 50-250m 9 0 0	- - - 2250-500m - - - - - 2250-500m	- - - 500-2000m - - - - - -
64 64 65 Page 67 67 67	12.2 <b>12.3</b> <b>12.4</b> 12.5 <b>Section</b> <b>13.1</b> 13.2 13.3 13.4	Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations Priority Habitat Inventory Habitat Networks Open Mosaic Habitat Limestone Pavement Orders	0 2 0 0 0 0 0 2 0 0 0 0 0 0 0	0 1 0 0 0-50m 3 0 0 0	6 1 0 50-250m 9 0 0 0 0 0 50-250m		
64 64 65 Page 67 67 67 67	12.2 <b>12.3</b> <b>12.4</b> 12.5 <b>Section</b> <b>13.2</b> 13.3 13.4 <b>Section</b>	Open Access LandTree Felling LicencesEnvironmental Stewardship SchemesCountryside Stewardship SchemesHabitat designationsPriority Habitat InventoryHabitat NetworksOpen Mosaic HabitatLimestone Pavement OrdersGeology 1:10,000 scale	0 2 0 0 0 0 0 2 0 0 0 0 0 0 0	0 1 0 0 0-50m 3 0 0 0 0	6 1 0 50-250m 9 0 0 0 0 0 50-250m		
64 64 65 Page 67 67 67 67 67 67	12.2 <b>12.3</b> <b>12.4</b> 12.5 <b>Section</b> <b>13.2</b> 13.3 13.4 <b>Section</b>	Open Access LandTree Felling LicencesEnvironmental Stewardship SchemesCountryside Stewardship SchemesHabitat designationsPriority Habitat InventoryHabitat NetworksOpen Mosaic HabitatLimestone Pavement OrdersGeology 1:10,000 scale10k Availability	0 2 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0	0 1 0 0 0-50m 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 1 0 50-250m 9 0 0 0 0 50-250m )	- - - 250-500m	





71	14.4	Landslip (10k)	0	0	0	0	-
72	14.5	Bedrock geology (10k)	0	0	0	0	-
72	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>73</u>	<u>15.1</u>	50k Availability	Identified (	within 500m	)		
<u>74</u>	<u>15.2</u>	Artificial and made ground (50k)	0	0	0	1	-
75	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<u>76</u>	<u>15.4</u>	Superficial geology (50k)	1	0	1	3	-
<u>77</u>	<u>15.5</u>	Superficial permeability (50k)	Identified (	within 50m)			
77	15.6	Landslip (50k)	0	0	0	0	-
77	15.7	Landslip permeability (50k)	None (with	in 50m)			
<u>78</u>	<u>15.8</u>	Bedrock geology (50k)	1	0	1	7	-
<u>79</u>	<u>15.9</u>	Bedrock permeability (50k)	Identified (	within 50m)			
<u>79</u>	<u>15.10</u>	Bedrock faults and other linear features (50k)	2	0	4	4	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
<u>81</u>	<u>16.1</u>	BGS Boreholes	3	1	42	-	-
<u>81</u> Page	<u>16.1</u> Section	BGS Boreholes Natural ground subsidence	3	1	42	-	-
			3 Very low (v		42	-	-
Page	Section	Natural ground subsidence		vithin 50m)	42	-	-
Page <u>84</u>	Section <u>17.1</u>	Natural ground subsidence	Very low (v Very low (v	vithin 50m)	42	-	-
Page <u>84</u> <u>85</u>	Section <u>17.1</u> <u>17.2</u>	Natural ground subsidence Shrink swell clays Running sands	Very low (v Very low (v	vithin 50m) vithin 50m) Świthin 50m)	42	-	-
Page <u>84</u> <u>85</u> <u>87</u>	Section 17.1 17.2 17.3	Natural ground subsidence <u>Shrink swell clays</u> <u>Running sands</u> <u>Compressible deposits</u>	Very low (v Very low (v Negligible ( Very low (v	vithin 50m) vithin 50m) Świthin 50m)	42	-	-
Page <u>84</u> <u>85</u> <u>87</u> <u>88</u>	Section 17.1 17.2 17.3 17.4	Natural ground subsidence         Shrink swell clays         Running sands         Compressible deposits         Collapsible deposits	Very low (v Very low (v Negligible ( Very low (v Moderate (	vithin 50m) vithin 50m) within 50m) vithin 50m)	42	-	-
Page <u>84</u> <u>85</u> <u>87</u> <u>88</u> <u>89</u>	Section 17.1 17.2 17.3 17.4 17.5	Natural ground subsidence         Shrink swell clays         Running sands         Compressible deposits         Collapsible deposits         Landslides	Very low (v Very low (v Negligible ( Very low (v Moderate (	vithin 50m) vithin 50m) within 50m) vithin 50m) within 50m)	42 50-250m	- 250-500m	- 500-2000m
Page <u>84</u> <u>85</u> <u>87</u> <u>88</u> <u>89</u> <u>91</u>	Section 17.1 17.2 17.3 17.4 17.5 17.6	Natural ground subsidence         Shrink swell clays         Running sands         Compressible deposits         Collapsible deposits         Landslides         Ground dissolution of soluble rocks	Very low (v Very low (v Negligible ( Very low (v Moderate ( Negligible (	vithin 50m) vithin 50m) (within 50m) vithin 50m) (within 50m)		- 250-500m	- 500-2000m
Page <u>84</u> <u>85</u> <u>87</u> <u>88</u> <u>89</u> <u>91</u> Page	Section 17.1 17.2 17.3 17.4 17.5 17.6 Section	Natural ground subsidenceShrink swell claysRunning sandsCompressible depositsCollapsible depositsLandslidesGround dissolution of soluble rocksMining, ground workings and natural cavities	Very low (v Very low (v Negligible ( Very low (v Moderate ( Negligible ( On site	vithin 50m) vithin 50m) within 50m) vithin 50m) within 50m) within 50m) 0-50m	50-250m		- 500-2000m -
Page <u>84</u> <u>85</u> <u>87</u> <u>88</u> <u>89</u> <u>91</u> Page	Section 17.1 17.2 17.3 17.4 17.5 17.6 Section 18.1	Natural ground subsidenceShrink swell claysRunning sandsCompressible depositsCollapsible depositsLandslidesGround dissolution of soluble rocksMining, ground workings and natural cavitiesNatural cavities	Very low (v Very low (v Negligible ( Very low (v Moderate ( Negligible ( On site 0	vithin 50m) vithin 50m) (within 50m) vithin 50m) (within 50m) (within 50m) 0-50m 0	50-250m 0	0	- 500-2000m - - -
Page <u>84</u> <u>85</u> <u>87</u> <u>88</u> <u>89</u> <u>91</u> Page <u>92</u> <u>93</u>	Section 17.1 17.2 17.3 17.4 17.5 17.6 Section 18.1 18.2	Natural ground subsidenceShrink swell claysRunning sandsCompressible depositsCollapsible depositsLandslidesGround dissolution of soluble rocksMining, ground workings and natural cavitiesNatural cavitiesBritPits	Very low (v Very low (v Negligible ( Very low (v Moderate ( Negligible ( On site 0 0	vithin 50m) vithin 50m) (within 50m) vithin 50m) (within 50m) (within 50m) 0-50m 0 0	50-250m 0 0	0	- 500-2000m - - - 0
Page <u>84</u> <u>85</u> <u>87</u> <u>88</u> <u>99</u> <u>91</u> Page <u>92</u> <u>93</u>	Section 17.1 17.2 17.3 17.4 17.5 17.6 Section 18.1 18.2 18.3	Natural ground subsidence         Shrink swell clays         Running sands         Compressible deposits         Collapsible deposits         Landslides         Ground dissolution of soluble rocks         Mining, ground workings and natural cavities         BritPits         Surface ground workings	Very low (v Very low (v Negligible ( Very low (v Moderate ( Negligible ( On site 0 0 0	vithin 50m) vithin 50m) (within 50m) vithin 50m) (within 50m) (within 50m) 0 0 0 0 0	50-250m 0 0 9	0 1	-





<u>94</u>	<u>18.6</u>	Non-coal mining	0	0	0	2	0
95	18.7	Mining cavities	0	0	0	0	0
95	18.8	JPB mining areas	None (with	in 0m)			
<u>95</u>	<u>18.9</u>	Coal mining	Identified (	within 0m)			
95	18.10	Brine areas	None (with	in 0m)			
96	18.11	Gypsum areas	None (with	in 0m)			
96	18.12	Tin mining	None (with	in 0m)			
96	18.13	Clay mining	None (with	in Om)			
Page	Section	Radon					
<u>97</u>	<u>19.1</u>	Radon	Between 1	% and 3% (w	ithin 0m)		
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>99</u>	<u>20.1</u>	BGS Estimated Background Soil Chemistry	4	1	-	-	-
99	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
99	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
100	21.1	Underground railways (London)	0	0	0	-	-
100	21.2	Underground railways (Non-London)	0	0	0	-	-
100	21.3	Railway tunnels	0	0	0	-	-
100	21.4	Historical railway and tunnel features	0	0	0	-	-
100	21.5	Royal Mail tunnels	0	0	0	-	-
101	21.6	Historical railways	0	0	0	-	-
101	21.7	Railways	0	0	0	-	-
101	21.8	Crossrail 1	0	0	0	0	-
101	21.9	Crossrail 2	0	0	0	0	-
101	21.10	HS2	0	0	0	0	-





Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **Recent aerial photograph**



Capture Date: 10/10/2018 Site Area: 2.01ha



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Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# Recent site history - 2016 aerial photograph



Capture Date: 16/08/2016 Site Area: 2.01ha





Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# Recent site history - 2008 aerial photograph



Capture Date: 05/10/2008 Site Area: 2.01ha







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **Recent site history - 1999 aerial photograph**



Capture Date: 26/07/1999 Site Area: 2.01ha







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# OS MasterMap site plan



Site Area: 2.01ha







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# 1 Past land use



# **1.1 Historical industrial land uses**

#### Records within 500m

27

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

#### Features are displayed on the Past land use map on page 13

ID	Location	Land use	Dates present	Group ID
А	54m NW	Sewage Works	1938	206308







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

ID	Location	Land use	Dates present	Group ID
А	121m W	Sewage Works	1926	200289
А	125m W	Unspecified Tank	1926 - 1938	200971
С	204m NW	Water Works	1863	193361
2	252m NE	Police Station	1977	197431
С	255m NW	Unspecified Tank	1863	192803
D	344m E	Unspecified Quarry	1863 - 1898	203304
D	344m E	Unspecified Disused Quarry	1926	208674
D	346m E	Unspecified Disused Quarry	1938 - 1951	207849
Е	346m S	Sewage Works	1938	206134
Е	347m S	Sewage Works	1926	202782
D	348m E	Unspecified Disused Quarry	1977	209335
Е	379m S	Unspecified Tank	1926 - 1938	208129
F	379m NE	Cemetery	1977	201251
F	381m NE	Cemetery	1951	206827
F	388m NE	Cemetery	1926	201407
F	388m NE	Cemetery	1898	204545
F	390m NE	Cemetery	1938	208710
Н	455m NW	Unspecified Ground Workings	1951	202027
Н	465m NW	Unspecified Ground Workings	1926	206312
I	467m E	Unspecified Pit	1951	209288
	470m E	Unspecified Pit	1938	203322
Ι	471m E	Unspecified Old Quarry	1898	194601
Ι	471m E	Unspecified Pit	1926	208552
J	474m NE	Silk Mills	1951	189159
J	478m NE	Unspecified Factories	1977	198355
Ι	494m E	Unspecified Quarry	1863	191499

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'.

Features are displayed on the Past land use map on page 13

ID	Location	Land use	Dates present	Group ID
1	30m S	Tank or Trough	1865	28570
В	54m E	Unspecified Tank	1899 - 1925	28978
А	123m W	Unspecified Tank	1925	28499
Е	382m S	Unspecified Tank	1925	28501
4	395m NW	Unspecified Tank	1925	28497

This data is sourced from Ordnance Survey / Groundsure.

# **1.3 Historical energy features**

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

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

#### Features are displayed on the Past land use map on page 13

ID	Location	Land use	Dates present	Group ID
В	66m E	Electricity Substation	1973	15037
3	282m W	Electricity Substation	1989 - 1992	15333
G	452m N	Electricity Substation	1978 - 1992	15391
6	454m N	Electricity Substation	1984 - 1992	15368
7	456m N	Electricity Substation	1983	15036
G	461m N	Electricity Substation	1961	15448





5



Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

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ID	Location	Land use	Dates present	Group ID
G	464m N	Electricity Substation	1984	15511
I	485m E	Electricity Substation	1994	15033

This data is sourced from Ordnance Survey / Groundsure.

# **1.4 Historical petrol stations**

#### Records within 500m

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

This data is sourced from Ordnance Survey / Groundsure.

#### **1.5 Historical garages**

#### Records within 500m

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

Features are displayed on the Past land use map on page 13

ID	Location	Land use	Dates present	Group ID
5	412m NE	Garage	1973	4756

This data is sourced from Ordnance Survey / Groundsure.

# **1.6 Historical military land**

Records within 500m	0	

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

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

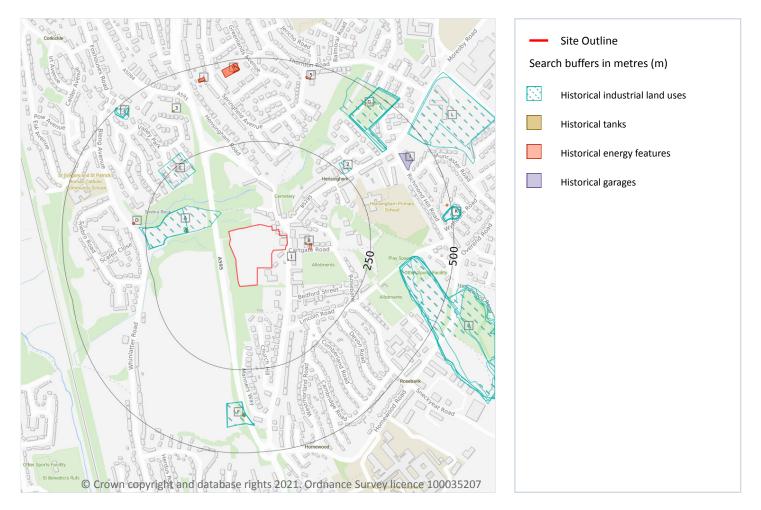






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# 2 Past land use - un-grouped



# 2.1 Historical industrial land uses

#### Records within 500m

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

#### Features are displayed on the Past land use - un-grouped map on page 17

ID	Location	Land Use	Date	Group ID
А	54m NW	Sewage Works	1938	206308
А	121m W	Sewage Works	1926	200289
A	121m W	Sewage Works	1926	200289







ID	Location	Land Use	Date	Group ID
А	125m W	Unspecified Tank	1926	200971
А	127m W	Unspecified Tank	1938	200971
С	204m NW	Water Works	1863	193361
2	252m NE	Police Station	1977	197431
С	255m NW	Unspecified Tank	1863	192803
Е	344m E	Unspecified Disused Quarry	1926	208674
Е	344m E	Unspecified Quarry	1898	203304
Е	346m E	Unspecified Disused Quarry	1938	207849
F	346m S	Sewage Works	1938	206134
F	347m S	Sewage Works	1926	202782
F	347m S	Sewage Works	1926	202782
Е	348m E	Unspecified Disused Quarry	1977	209335
Е	354m E	Unspecified Quarry	1863	203304
Е	375m E	Unspecified Disused Quarry	1951	207849
F	379m S	Unspecified Tank	1926	208129
G	379m NE	Cemetery	1977	201251
F	380m S	Unspecified Tank	1938	208129
G	381m NE	Cemetery	1951	206827
G	388m NE	Cemetery	1926	201407
G	388m NE	Cemetery	1898	204545
G	390m NE	Cemetery	1938	208710
J	455m NW	Unspecified Ground Workings	1951	202027
J	465m NW	Unspecified Ground Workings	1926	206312
J	465m NW	Unspecified Ground Workings	1926	206312
К	467m E	Unspecified Pit	1951	209288
К	470m E	Unspecified Pit	1938	203322
К	470m E	Unspecified Pit	1938	203322
К	471m E	Unspecified Pit	1926	208552







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

ID	Location	Land Use	Date	Group ID
К	471m E	Unspecified Old Quarry	1898	194601
L	474m NE	Silk Mills	1951	189159
L	478m NE	Unspecified Factories	1977	198355
К	494m E	Unspecified Quarry	1863	191499

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'.

ID	Location	Land Use	Date	Group ID
1	30m S	Tank or Trough	1865	28570
В	54m E	Unspecified Tank	1899	28978
В	54m E	Unspecified Tank	1925	28978
А	123m W	Unspecified Tank	1925	28499
F	382m S	Unspecified Tank	1925	28501
3	395m NW	Unspecified Tank	1925	28497

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'.

Features are displayed on the Past land use - un-grouped map on page 17

ID	Location	Land Use	Date	Group ID
В	66m E	Electricity Substation	1973	15037



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6



Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

ID	Location	Land Use	Date	Group ID
D	282m W	Electricity Substation	1989	15333
D	282m W	Electricity Substation	1992	15333
Н	452m N	Electricity Substation	1978	15391
Η	452m N	Electricity Substation	1992	15391
I	454m N	Electricity Substation	1984	15368
	455m N	Electricity Substation	1992	15368
5	456m N	Electricity Substation	1983	15036
Н	461m N	Electricity Substation	1961	15448
Н	464m N	Electricity Substation	1984	15511
К	485m E	Electricity Substation	1994	15033

*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.* 

# 2.5 Historical garages

Record	s within 500m		1

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

Features are displayed on the Past land use - un-grouped map on page 17

ID	Location	Land Use	Date	Group ID
4	412m NE	Garage	1973	4756

This data is sourced from Ordnance Survey / Groundsure.







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **3** Waste and landfill



# 3.1 Active or recent landfill

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

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

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

# 3.2 Historical landfill (BGS records)

#### Records within 500m

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

This data is sourced from the British Geological Survey.





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# 3.3 Historical landfill (LA/mapping records)

#### Records within 500m

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

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

ID	Location	Site address	Source	Data type
2	343m E	Refuse Tip	1972 mapping	Polygon
А	450m E	Refuse Tip	1968 mapping	Polygon
А	453m E	Refuse Tip	1968 mapping	Polygon

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

# 3.4 Historical landfill (EA/NRW records)

#### Records within 500m

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

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

ID	Location	Details		
1	121m N	Site Address: Land off Hensingham Road, Adjacent to Snebra Ghyll, Hensingham, Whitehaven, Cumbria Licence Holder Address: Durranhill, Carlisle	Waste Licence: Yes Site Reference: 153 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 10/06/1991 Licence Surrender: 16/04/1993	Operator: - Licence Holder: Eden Construction Limited First Recorded 06/07/1991 Last Recorded: 07/10/1992
A	343m E	Site Address: Overend Quarry, Overend Road, Overend, Hensingham, Whitehaven, Cumbria Licence Holder Address: Town Hall, Whitehaven	Waste Licence: Yes Site Reference: 22 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 31/08/1977 Licence Surrender: 06/01/1993	Operator: - Licence Holder: Copeland Borough Council First Recorded 31/12/1942 Last Recorded: 31/12/1988







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

ID	Location	Details		
3	344m E	Site Address: Overend Tip, Hensingham, Whitehaven, Cumbria Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

# **3.5 Historical waste sites**



## 3.6 Licensed waste sites

Records within 500m	0
Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.	

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

# 3.7 Waste exemptions

Records within 500m			0

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.

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

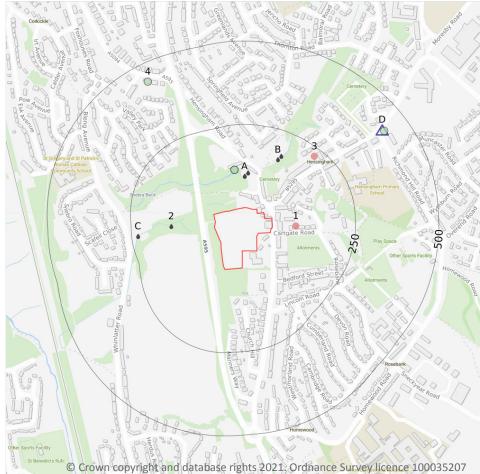






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# 4 Current industrial land use



# Site Outline Search buffers in metres (m) Recent industrial land uses Current or recent petrol stations Licensed Discharges to controlled waters Pollution Incidents (EA/NRW)

## 4.1 Recent industrial land uses

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

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 24

ID	Location	Company	Address	Activity	Category
1	71m E	Electricity Sub Station	Cumbria, CA28	Electrical Features	Infrastructure and Facilities
3	225m NE	Electricity Sub Station	Cumbria, CA28	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.







#### 4.2 Current or recent petrol stations

Re	Records within 500m					1	
Oper	Open, closed, under development and obsolete petrol stations.						
Featu	Features are displayed on the Current industrial land use map on page 24						
ID	Location	Company	Address	LPG	Status		
D	424m NE	SHELL	Main Street, Hensingham, Whitehaven, Cumbria, CA28 8TP	No	Open		
This d	ata is sourced	l from Experian					
<b>4.3</b> E	Electricity	cables					
Re	cords withi	n 500m				0	
High	voltage und	derground el	ectricity transmission cables.				
This d	ata is sourced	l from National	Grid.				
4.4 (	4.4 Gas pipelines						
Re	Records within 500m 0						
High	High pressure underground gas transmission pipelines.						
This d	This data is sourced from National Grid.						

#### 4.5 Sites determined as Contaminated Land

Records within 500m	0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

# 4.6 Control of Major Accident Hazards (COMAH)

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

This data is sourced from the Health and Safety Executive.







#### 4.7 Regulated explosive sites

#### Records within 500m

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

This data is sourced from the Health and Safety Executive.

#### 4.8 Hazardous substance storage/usage

#### Records within 500m

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

This data is sourced from Local Authority records.

## 4.9 Historical licensed industrial activities (IPC)

#### Records within 500m

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

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

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

#### Records within 500m

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

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

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

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

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

This data is sourced from Local Authority records.





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## **4.12 Radioactive Substance Authorisations**

#### Records within 500m

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

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

# 4.13 Licensed Discharges to controlled waters

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

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991. Features are displayed on the Current industrial land use map on **page 24** 

ID	Location	Address	Details	
A	93m N	RIBTON MOORSIDE CSO, 130 MAIN STREET, HENSINGHAM, WHITEHAVEN, CUMBRIA, CA28 8PX	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 017480288 Permit Version: 1 Receiving Water: SNEBRA BECK	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: - Effective Date: 30/09/1994 Revocation Date: 03/03/2005
A	93m N	RIBTON MOORSIDE CSO, 130 MAIN STREET, HENSINGHAM, WHITEHAVEN, CUMBRIA, CA28 8PX	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01COP0085 Permit Version: 1 Receiving Water: SNEBRA BECK	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: - Effective Date: 01/01/1995 Revocation Date: 01/01/1995
A	104m N	RIBTON MOORSIDE CSO, 130 MAIN STREET, HENSINGHAM, WHITEHAVEN, CUMBRIA, CA28 8PX	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 017480288 Permit Version: 3 Receiving Water: CULVERTED SEC OF SNEBRA BECK	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 01/04/2018 Revocation Date: -
A	104m N	RIBTON MOORSIDE CSO, 130 MAIN STREET, HENSINGHAM, WHITEHAVEN, CUMBRIA, CA28 8PX	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 017480288 Permit Version: 2 Receiving Water: SNEBRA BECK	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 04/03/2005 Effective Date: 04/03/2005 Revocation Date: 31/03/2018







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

ID	Location	Address	Details	
2	129m W	SNEBRA WHITEHAVEN CSO 023B2, 145 WHINLATTER ROAD, ., WHITEHAVEN, CUMBRIA, CA28 8DY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01COP0039 Permit Version: 1 Receiving Water: SNEBRA GHYLL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1995 Revocation Date: 29/03/2004
В	161m NE	WINSTON DRIVE HENSINGHAM CSO 02632, WINSTON DRIVE, ., WHITEHAVEN, CUMBRIA, CA28 8RB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 017480428 Permit Version: 2 Receiving Water: SNEBRA BECK	Status: VARIED UNDER EPR 2010 Issue date: 08/05/2018 Effective Date: 08/05/2018 Revocation Date: -
В	174m NE	WINSTON DRIVE HENSINGHAM CSO 02632, WINSTON DRIVE, ., WHITEHAVEN, CUMBRIA, CA28 8RB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01COP0005 Permit Version: 1 Receiving Water: SNEBRA GHYLL	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: 01/01/1995 Effective Date: 01/01/1995 Revocation Date: 06/03/2005
В	174m NE	WINSTON DRIVE HENSINGHAM CSO 02632, WINSTON DRIVE, ., WHITEHAVEN, CUMBRIA, CA28 8RB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 017480428 Permit Version: 1 Receiving Water: SNEBRA BECK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 07/03/2005 Effective Date: 07/03/2005 Revocation Date: 07/05/2018
С	231m W	SNEBRA WHITEHAVEN CSO 023B2, 145 WHINLATTER ROAD, ., WHITEHAVEN, CUMBRIA, CA28 8DY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01COP0039 Permit Version: 2 Receiving Water: TRIB OF POW BECK	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 30/03/2004 Effective Date: 30/03/2004 Revocation Date: 07/05/2018
С	231m W	SNEBRA WHITEHAVEN CSO 023B2, 145 WHINLATTER ROAD, ., WHITEHAVEN, CUMBRIA, CA28 8DY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01COP0039 Permit Version: 3 Receiving Water: TRIB OF POW BECK	Status: VARIED UNDER EPR 2010 Issue date: 08/05/2018 Effective Date: 08/05/2018 Revocation Date: -

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







# 4.14 Pollutant release to surface waters (Red List)

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

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

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

#### 4.15 Pollutant release to public sewer

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

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.

Features are displayed on the Current industrial land use map on page 24





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ID	Location	Details	
A	116m N	Incident Date: 02/10/2002 Incident Identification: 113884 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
А	116m N	Incident Date: 02/10/2002 Incident Identification: 113884 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	427m NE	Incident Date: 15/01/2002 Incident Identification: 52587 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4	444m NW	Incident Date: 10/07/2001 Incident Identification: 15473 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

# 4.19 Pollution inventory substances

#### Records within 500m

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

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

# 4.20 Pollution inventory waste transfers

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

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

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





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## 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.

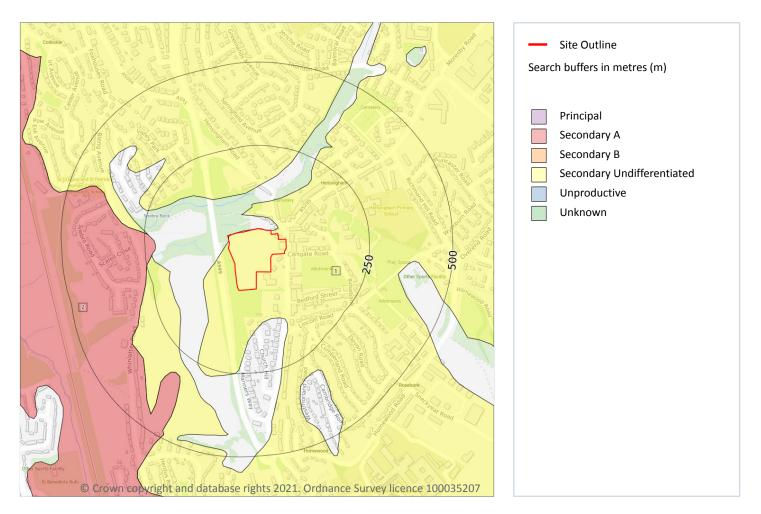






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **5 Hydrogeology - Superficial aquifer**



# **5.1 Superficial aquifer**

Records within 500m	2
Aquifer status of groundwater held within superficial geology.	
Features are displayed on the Hydrogeology map on page 32	

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	219m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers







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

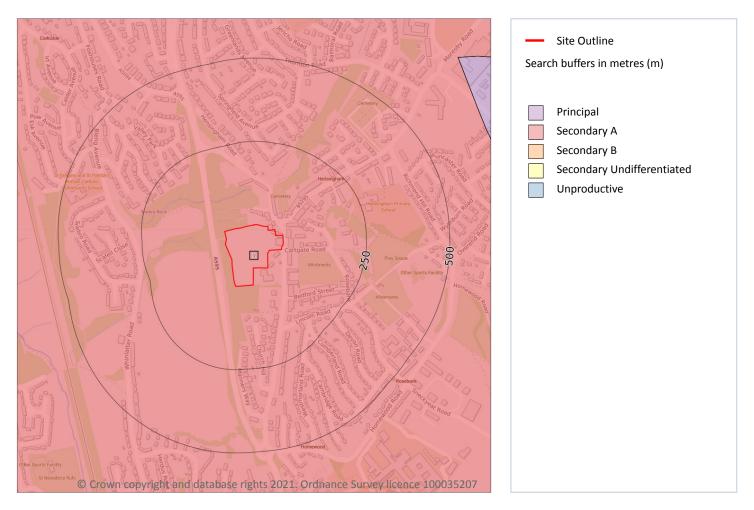






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **Bedrock aquifer**



# 5.2 Bedrock aquifer

Records within 500m	1							
Aquifer status of groundwater held within bedrock geology.								
Features are displayed on the Bedrock aquifer map on page 34								

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

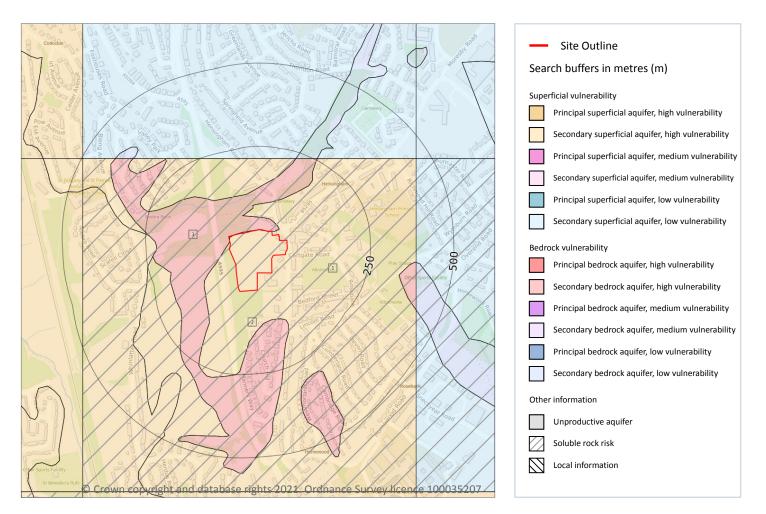






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **Groundwater vulnerability**



# 5.3 Groundwater vulnerability

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

2

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

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

Features are displayed on the Groundwater vulnerability map on page 35







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Secondary 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
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

ID	)	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2		Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.	0.0%

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

# 5.5 Groundwater vulnerability- local information

# Records on site 0 This dataset identifies areas where additional local information affecting vulnerability is held by the

Environment Agency. Further information can be obtained by contacting vulnerability is field by the 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.

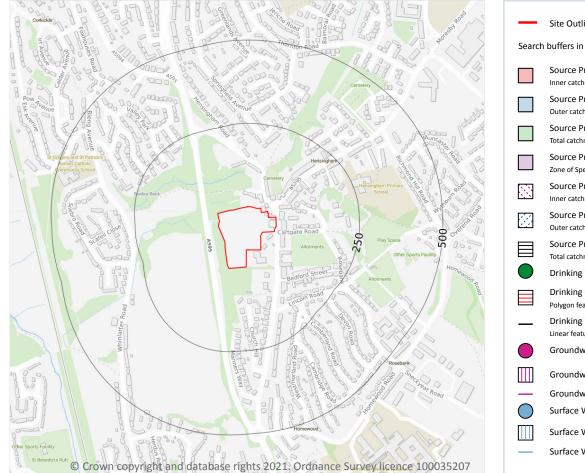






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **Abstractions and Source Protection Zones**



#### Site Outline Search buffers in metres (m) Source Protection Zone 1 Inner catchment Source Protection Zone 2 Outer catchment Source Protection Zone 3 Total catchment Source Protection Zone 4 Zone of Special Interest Source Protection Zone 1c Inner catchment - confined aquifer Source Protection Zone 2c Outer catchment - confined aquifer Source Protection Zone 3c Total catchment - confined aquifer Drinking water abstraction licences Drinking water abstraction licences Polygon features Drinking water abstraction licences Linear features Groundwater abstraction licence (point) Groundwater abstraction licence (area) Groundwater abstraction licence (linear) Surface Water Abstractions (point) Surface Water Abstractions (area) Surface Water Abstractions (linear)

### 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 37

ID	Location	Details	
-	1877m SE	Status: Historical Licence No: 2774002010 Details: Make-Up or Top Up Water Direct Source: "Surface, Non-Tidal - North West Region" Point: "SPRING FED CATCHPIT @ WESTLAKES S&T PARK, MOOR ROW" Data Type: Point Name: WESTLAKES PROPERTIES LTD Easting: 299530 Northing: 515020	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: 28-Dec-15 Issue No: 1 Version Start Date: 29/12/2000 Version End Date: -
-	1877m SE	Status: Historical Licence No: 2774002010 Details: Make-Up or Top Up Water Direct Source: Surface, Non-Tidal - North West Region Point: SPRING FED CATCHPIT @ WESTLAKES S&T PARK, MOOR ROW Data Type: Point Name: WESTLAKES PROPERTIES LTD Easting: 299530 Northing: 515020	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: 28/12/2015 Issue No: 2 Version Start Date: 29/12/2000 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.







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

### **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.

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



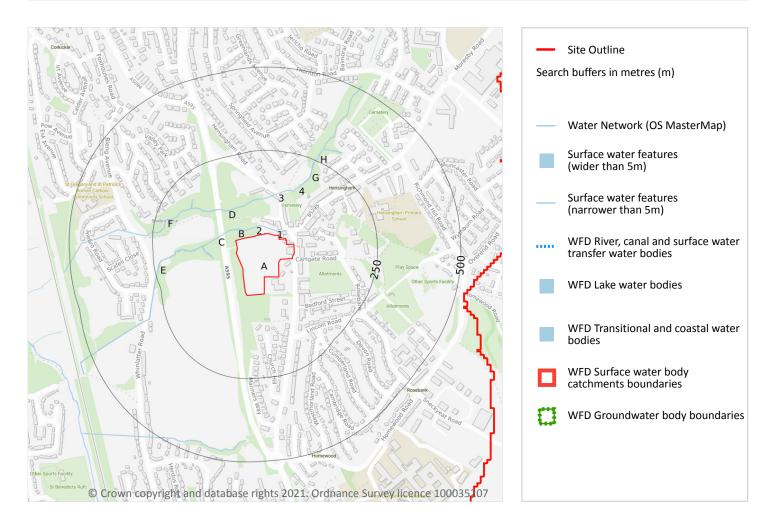


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Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# 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 40

ID	Location	Type of water feature	Ground level	Permanence	Name
1	11m N	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-







ID	Location	Type of water feature	Ground level	Permanence	Name
2	19m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
В	22m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
С	35m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
С	69m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
С	91m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	92m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Snebra Beck
E	103m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	103m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Snebra Beck
4	139m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Snebra Beck
F	165m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Snebra Beck
F	165m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	172m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	173m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Snebra Beck







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

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ID	Location	Type of water feature	Ground level	Permanence	Name
Н	245m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Snebra Beck

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 40

This data is sourced from the Ordnance Survey.

# 6.3 WFD Surface water body catchments

#### **Records on site**

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

Features are displayed on the Hydrology map on page 40

ID	Location	Туре	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	Coastal Catchment	Not part of a river WB catchment	356	Ehen-Calder	South West Lakes

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

# 6.4 WFD Surface water bodies

### **Records identified**

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







1

water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

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

# 6.5 WFD Groundwater bodies

#### Records on site

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

Features are displayed on the Hydrology map on page 40

D	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Derwent and West Cumbria Lower Palaeozoic and Carboniferous Aquifers	<u>GB41202G103700</u>	Poor	Poor	Good	2019

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

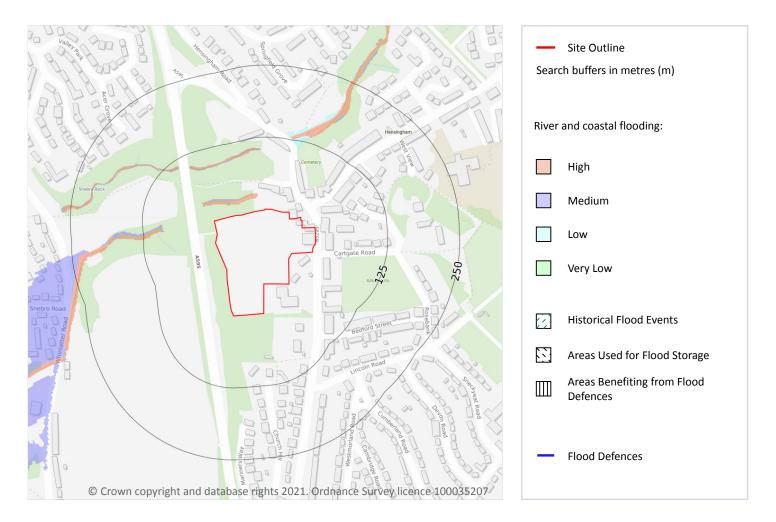






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# 7 River and coastal flooding



# 7.1 Risk of flooding from rivers and the sea

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

7

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 in any given year), Low (less than 1 in 1000 chance), Medium (less than 1 in 200 but greater than or equal to 1 in 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 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on page 44







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

Distance	Flood risk category
On site	N/A
0 - 50m	High

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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Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **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 44

Location	Туре
19m N	Zone 2 - (Fluvial /Tidal Models)

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







# 7.7 Flood Zone 3

# Records within 50m

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

Features are displayed on the River and coastal flooding map on page 44

Location	Туре
19m N	Zone 3 - (Fluvial Models)

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







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# 8 Surface water flooding





# 8.1 Surface water flooding

#### **Highest risk on site**

Negligible

#### Highest risk within 50m

1 in 30 year, Greater than 1.0m

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 48

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







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

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

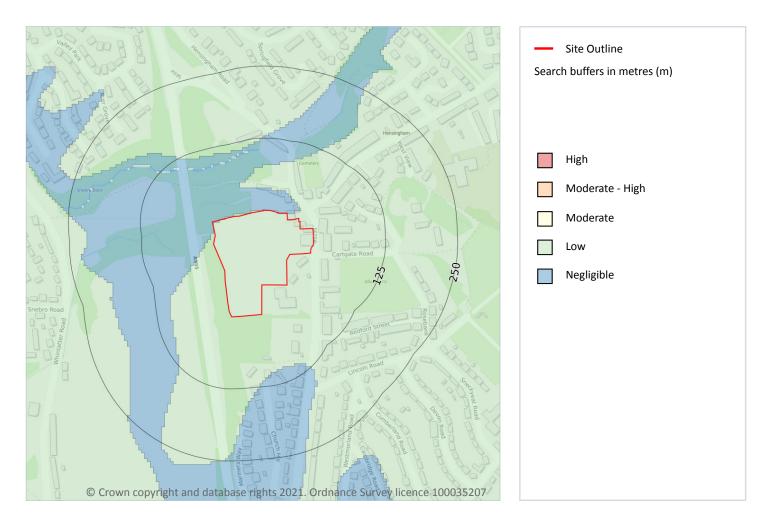






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# 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 50

This data is sourced from Ambiental Risk Analytics.

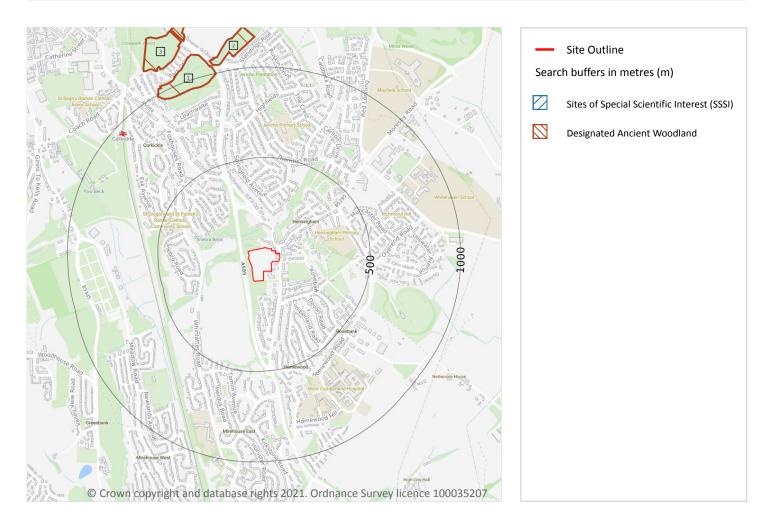






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **10** Environmental designations



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

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

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

Features are displayed on the Environmental designations map on page 51

ID	Location	Name	Data source
-	1978m W	St. Bees Head	Natural England







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

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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.

# **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.







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

### **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.

#### Features are displayed on the Environmental designations map on page 51

ID	Location	Name	Woodland Type
1	947m NW	Midgey Wood	Ancient & Semi-Natural Woodland
2	1042m N	Midgey Wood	Ancient & Semi-Natural Woodland
3	1116m NW	Crowpark Wood	Ancient & Semi-Natural Woodland
4	1219m N	Crowpark Wood	Ancient & Semi-Natural Woodland
_	1971m S	Unknown	Ancient Replanted Woodland

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** 

**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**

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

This data is sourced from Natural England.

# 10.13 Possible Special Areas of Conservation (pSAC)

#### Records within 2000m

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

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





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

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

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

This data is sourced from Natural England.

### **10.15 Nitrate Sensitive Areas**

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

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

This data is sourced from Natural England.

### **10.16 Nitrate Vulnerable Zones**

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

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

Location	Name	Туре	NVZ ID	Status
1675m W	St Bees	Groundwater	G180	Existing
1685m SW	St Bees	Groundwater	G180	Existing

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





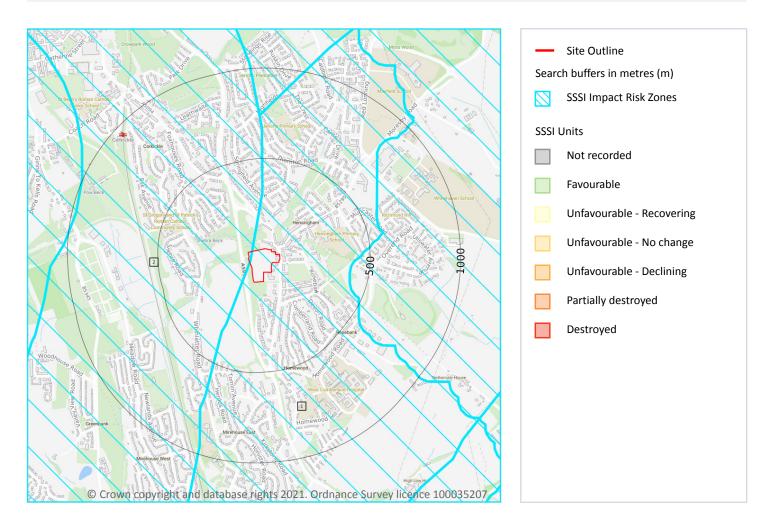
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Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **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 56







ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m <sup>2</sup> , slurry lagoons & digestate stores > 750m <sup>2</sup> , manure stores > 3500t). Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.
2	On site	<ul> <li>Infrastructure - Airports, helipads and other aviation proposals.</li> <li>Minerals, Oil and Gas - Oil &amp; gas exploration/extraction.</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; 200m<sup>2</sup>, manure stores &gt; 250t).</li> <li>Combustion - General combustion processes &gt;20mw 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>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</li> </ul>

This data is sourced from Natural England.

### 10.18 SSSI Units

Records within 2000m	1
Divisions of SSSIs used to record management and condition details. Units are the smallest areas for v Natural England gives a condition assessment, however, the size of units varies greatly depending on of management and the conservation interest.	
Fastures are displayed on the CCCI impost Zanas and Units man on page FC	

Features are displayed on the SSSI Impact Zones and Units map on page 56

ID:	-
Location:	1978m W
SSSI name:	St. Bees Head
Unit name:	Saltom Bay
Broad habitat:	Earth Heritage
Condition:	Favourable
Reportable features:	

Feature name	Feature condition	Date of assessment
EC - Marine Permian	Not Recorded	01/01/1900
EC - Non-Marine Permian Triassic (Red Beds)	Not Recorded	01/01/1900







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

Feature name	Feature condition	Date of assessment	
EC - Westphalian	Not Recorded	01/01/1900	
Hard maritime cliff and slope	Not Recorded	01/01/1900	

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

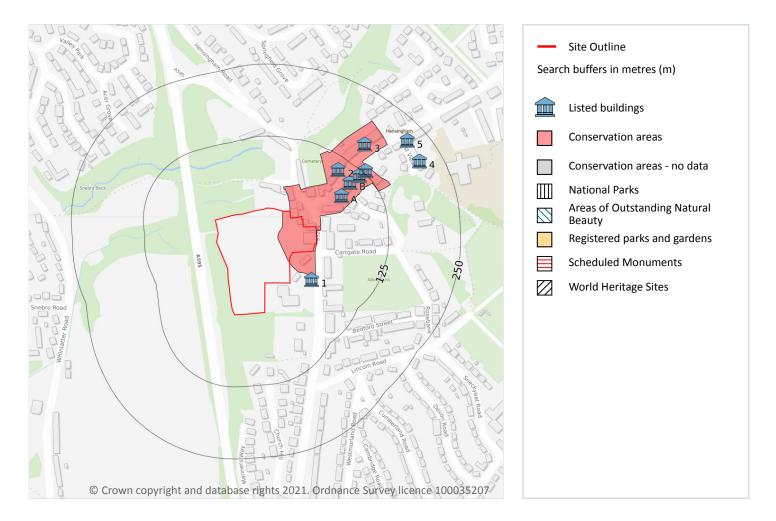






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **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.

Location **Reference Number** ID Name Grade Listed date 38m E Hensingham War Memorial, Whitehaven, Copeland, Cumbria, II 1 1473370 13/01/2021 CA28 70m NE 96-99, Main Street, Whitehaven, Copeland, Cumbria, CA28 А 11 1086768 13/09/1972 В 96m NE 89, 90, 92, 93, 94, 95, Main Street, Whitehaven, Copeland, Ш 1279513 13/09/1972 Cumbria, CA28 2 103m NE Coach House Adjoining No 37, Whitehaven, Copeland, 1086766 13/09/1972 Cumbria, CA28

#### Features are displayed on the Visual and cultural designations map on page 59



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Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

ID	Location	Name	Grade	Reference Number	Listed date
В	117m NE	88, Main Street, Whitehaven, Copeland, Cumbria, CA28	11	1086767	13/09/1972
В	130m NE	4-8, Garden Villas, Whitehaven, Copeland, Cumbria, CA28	11	1335961	13/09/1972
3	166m NE	38-48, Main Street, Whitehaven, Copeland, Cumbria, CA28	II	1207873	13/09/1972
4	213m NE	7, West View, Whitehaven, Copeland, Cumbria, CA28		1336006	13/09/1972
5	219m NE	81-87, Main Street, Whitehaven, Copeland, Cumbria, CA28	11	1335990	13/09/1972

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.

Features are displayed on the Visual and cultural designations map on page 59

ID	Location	Name	District	Date of designation
Α	On site	Whitehaven Hensingham	Copeland	1975

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

# **11.6 Scheduled Ancient Monuments**

Records within 250m	0

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

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







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **11.7 Registered Parks and Gardens**

#### Records within 250m

0

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

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

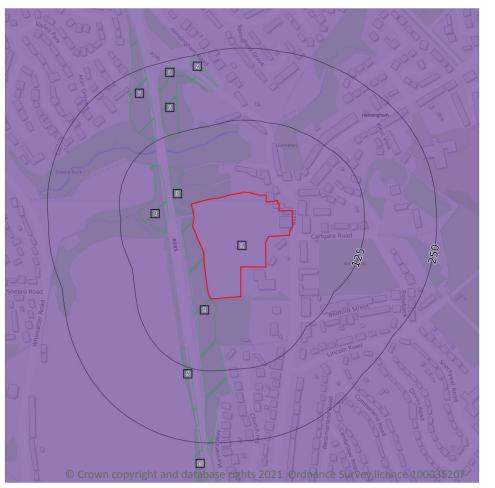






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **12** Agricultural designations



# Site Outline Search buffers in metres (m) Grade 1 - excellent quality Grade 2 - very good quality Grade 3 - good to moderate quality Grade 3a - good quality Grade 3b - moderate quality Grade 4 - poor quality Grade 5 - very poor quality Non-agricultural land Urban land **Exclusion land** Tree felling licences $\overline{\mathbb{Z}}$ **Open Access land** 123

### **12.1 Agricultural Land Classification**

#### Records within 250m

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

Features are displayed on the Agricultural designations map on page 63

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.







# 12.2 Open Access Land

#### Records within 250m

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

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

# **12.3 Tree Felling Licences**

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

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

ID	Location	Description	Reference	Application date
2	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
3	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
4	42m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
5	93m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
6	119m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-
7	127m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
8	180m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-
9	187m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-
10	227m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-

Features are displayed on the Agricultural designations map on page 63

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.



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Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

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Location	Reference	Scheme	Start Date	End date
53m SW	AG00564791	Entry Level plus Higher Level Stewardship	01/05/2011	30/04/2021

This data is sourced from Natural England.

# 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.

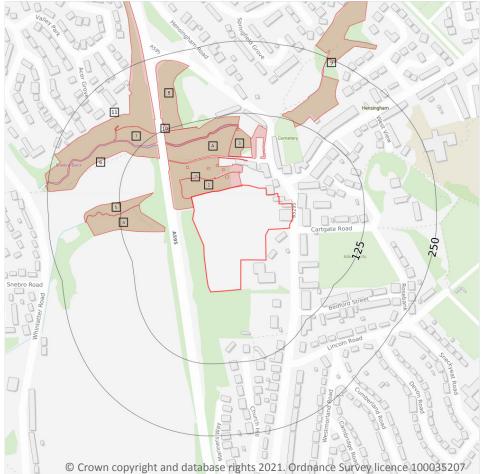


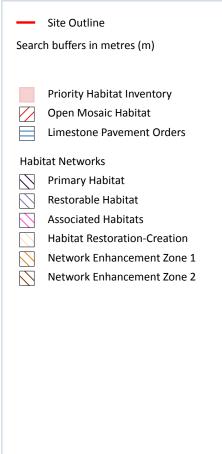




Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# **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.

Features are displayed on the Habitat designations map on page 66

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
А	47m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	49m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

ID	Location	Main Habitat	Other habitats
4	50m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	67m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	87m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
А	91m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
А	93m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	112m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	116m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	117m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	121m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	127m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

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



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Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

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.







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

# 14 Geology 1:10,000 scale - Availability



### 14.1 10k Availability

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

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 69

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

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**

0

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.







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

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# Geology 1:10,000 scale - Superficial

# 14.3 Superficial geology (10k)

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

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

This data is sourced from the British Geological Survey.

# 14.4 Landslip (10k)

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

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

This data is sourced from the British Geological Survey.







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

0

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## Geology 1:10,000 scale - Bedrock

#### 14.5 Bedrock geology (10k)

Records within 500m

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

This data is sourced from the British Geological Survey.

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

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

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

This data is sourced from the British Geological Survey.







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

## 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 73

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW028_whitehaven_v4

This data is sourced from the British Geological Survey.

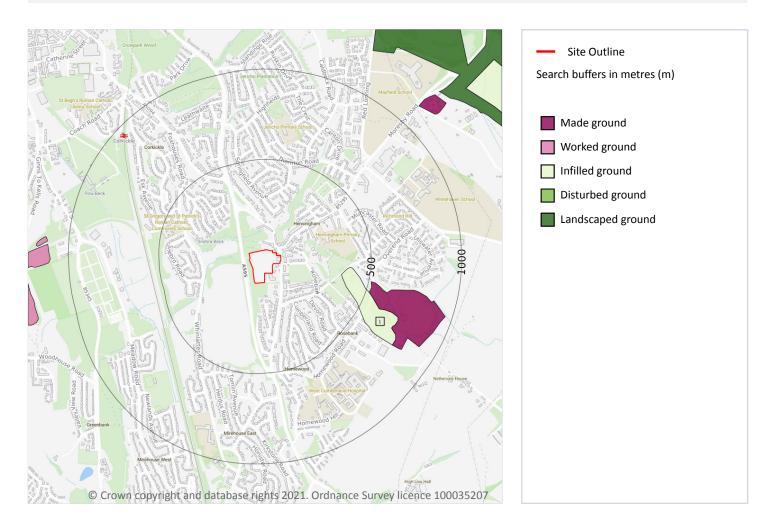






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

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



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

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

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on page 74

ID	Location	LEX Code	Description	Rock description
1	345m E	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

0

#### 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.

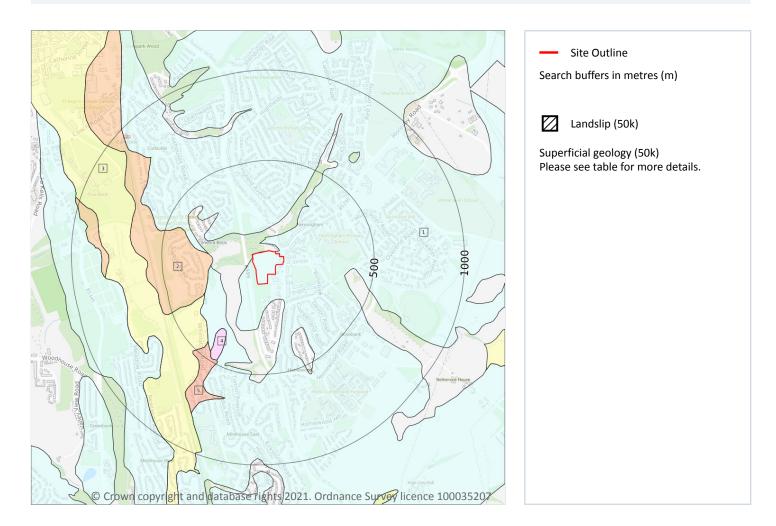






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

## 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 76

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD- DMTN	TILL, DEVENSIAN	DIAMICTON
2	219m W	RTDU-XCSV	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	CLAY, SAND AND GRAVEL
3	297m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL







1

ID	Location	LEX Code	Description	Rock description
4	310m SW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
5	419m SW	ALF-XSV	ALLUVIAL FAN DEPOSITS	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

## 15.5 Superficial permeability (50k)

## Records within 50m

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low

This data is sourced from the British Geological Survey.

#### 15.6 Landslip (50k)

## Records within 500m 0

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

This data is sourced from the British Geological Survey.

## 15.7 Landslip permeability (50k)

Records within 50m 0

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

This data is sourced from the British Geological Survey.

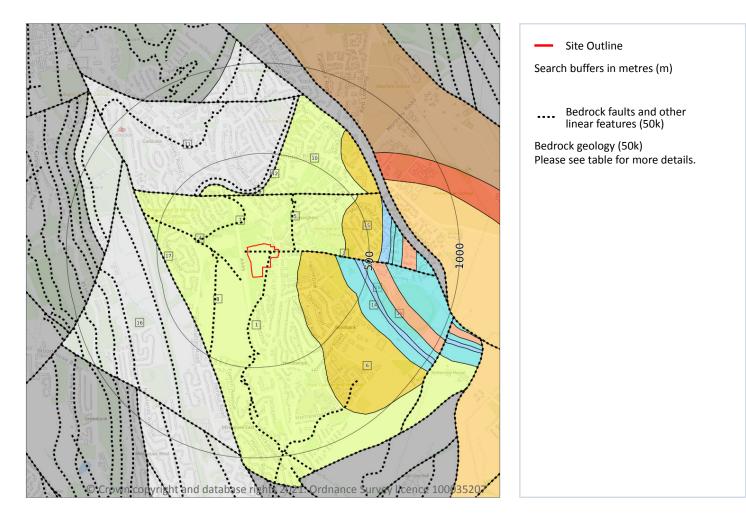






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

## 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 78

ID	Location	LEX Code	Description	Rock age
1	On site	SMGP- MDSS	STAINMORE FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN
6	122m E	HG-SDST	HENSINGHAM GRIT - SANDSTONE	NAMURIAN
10	270m N	SMGP- MDSS	STAINMORE FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

ID	Location	LEX Code	Description	Rock age
11	284m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
14	312m E	LM1-LMST	FIRST LIMESTONE (CUMBRIA) - LIMESTONE	NAMURIAN
15	350m E	HG-SDST	HENSINGHAM GRIT - SANDSTONE	NAMURIAN
16	397m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
18	417m E	SH1-SDSM	FIRST SHALE MEMBER - SANDSTONE, SILTSTONE AND MUDSTONE	VISEAN
19	460m E	LM2-LMST	SECOND LIMESTONE (CUMBRIA) - LIMESTONE	VISEAN

This data is sourced from the British Geological Survey.

#### 15.9 Bedrock permeability (50k)

Records within 50m	1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

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

Records within 500m	10
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Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on page 78

ID	Location	Category	Description
2	On site	FAULT	Fault, inferred, displacement unknown
3	On site	ROCK	Coal seam, inferred
4	66m SW	FAULT	Fault, inferred, displacement unknown
5	88m E	ROCK	Coal seam, inferred





Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

ID	Location	Category	Description
7	142m N	ROCK	Coal seam, inferred
8	164m W	ROCK	Coal seam, inferred
9	270m N	FAULT	Fault, inferred, displacement unknown
12	284m N	FOSSIL_HORIZON	Marine band
13	305m N	ROCK	Coal seam, inferred
17	397m SW	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.

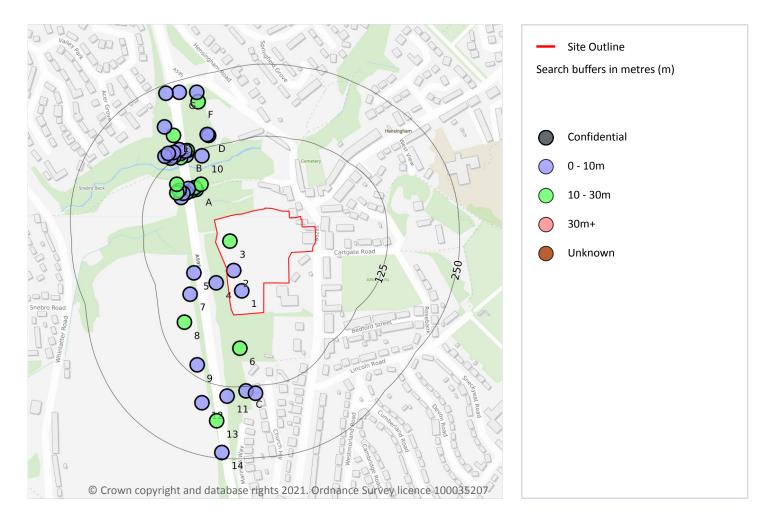






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

## **16 Boreholes**



#### **16.1 BGS Boreholes**

#### Records within 250m

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

Features are displayed on the Boreholes map on page 81

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	298485 516643	A595 HENSINGHAM BYPASS CUMBRIA 19	3.0	Ν	<u>819895</u>
2	On site	298471 516678	A595 HENSINGHAM BYPASS CUMBRIA TP12	2.0	Ν	<u>819910</u>
3	On site	298465 516729	A595 HENSINGHAM BYPASS CUMBRIA 8	20.0	Ν	<u>819884</u>





Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	20m W	298441 516657	A595 HENSINGHAM BYPASS CUMBRIA TP13	2.0	N	<u>819911</u>
5	56m SW	298402 516674	A595 HENSINGHAM BYPASS CUMBRIA 20	1.0	Ν	<u>819896</u>
6	59m S	298482 516543	A595 HENSINGHAM BYPASS CUMBRIA 10	15.0	Ν	<u>819886</u>
А	62m NW	298406 516819	A595 HENSINGHAM BYPASS TP11	2.05	Ν	<u>1136273</u>
А	65m NW	298397 516816	A595 HENSINGHAM BYPASS TP12	1.2	Ν	<u>1136274</u>
А	66m NW	298404 516822	A595 HENSINGHAM BYPASS 6	14.92	Ν	<u>819929</u>
А	67m N	298415 516828	A595 HENSINGHAM BYPASS CUMBRIA 7	20.0	Ν	<u>819883</u>
7	67m W	298396 516637	A595 HENSINGHAM BYPASS CUMBRIA TP14	2.0	Ν	<u>819912</u>
А	68m NW	298389 516813	A595 HENSINGHAM BYPASS 5	10.15	Ν	<u>819928</u>
А	70m NW	298380 516805	A595 HENSINGHAM BYPASS CUMBRIA TP11	2.0	Ν	<u>819909</u>
А	71m NW	298392 516820	A595 HENSINGHAM BYPASS TP10	1.1	Ν	<u>1136272</u>
А	72m NW	298383 516812	A595 HENSINGHAM BYPASS TP13	1.8	Ν	<u>1136275</u>
А	80m NW	298377 516817	A595 HENSINGHAM BYPASS TP14	2.75	Ν	<u>1136276</u>
А	80m NW	298373 516813	A595 HENSINGHAM BYPASS 4	29.74	Ν	<u>819927</u>
8	84m W	298386 516588	A595 HENSINGHAM BYPASS CUMBRIA 9	15.0	Ν	<u>819885</u>
А	90m NW	298373 516828	A595 HENSINGHAM BYPASS 3	11.86	Ν	<u>819926</u>
9	108m SW	298408 516514	A595 HENSINGHAM BYPASS CUMBRIA 22	2.0	Ν	<u>819898</u>
10	113m N	298416 516877	A595 HENSINGHAM BYPASS CUMBRIA 6	7.0	Ν	<u>819882</u>
В	123m NW	298389 516878	A595 HENSINGHAM BYPASS TP2	1.1	Ν	<u>1136264</u>
В	123m NW	298379 516874	A595 HENSINGHAM BYPASS 1	28.26	Ν	<u>819924</u>
В	129m N	298391 516886	A595 HENSINGHAM BYPASS 2	15.0	Ν	<u>819925</u>
В	130m NW	298379 516881	A595 HENSINGHAM BYPASS TP5	1.45	Ν	<u>1136267</u>
В	130m NW	298387 516885	A595 HENSINGHAM BYPASS TP7	1.85	Ν	<u>1136269</u>
В	131m NW	298368 516876	A595 HENSINGHAM BYPASS TP4	2.3	Ν	<u>1136266</u>
В	132m NW	298362 516873	A595 HENSINGHAM BYPASS TP3	2.6	Ν	<u>1136265</u>
С	133m S	298493 516469	A595 HENSINGHAM BYPASS CUMBRIA 21	3.0	Ν	<u>819897</u>
В	137m NW	298377 516888	A595 HENSINGHAM BYPASS TP9	2.4	Ν	<u>1136271</u>
В	137m NW	298367 516883	A595 HENSINGHAM BYPASS TP8	3.4	Ν	<u>1136270</u>







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

ID	Location	Grid reference	Name	Length	Confidential	Web link
С	138m S	298509 516465	A595 HENSINGHAM BYPASS CUMBRIA TP15	1.0	Ν	<u>819913</u>
В	140m NW	298352 516876	A595 HENSINGHAM BYPASS TP1	3.2	Ν	<u>1136263</u>
В	140m NW	298358 516881	A595 HENSINGHAM BYPASS TP6	2.1	Ν	<u>1136268</u>
11	142m S	298460 516460	A595 HENSINGHAM BYPASS CUMBRIA TP16	2.0	Ν	<u>819914</u>
D	144m N	298428 516912	A595 HENSINGHAM BYPASS CUMBRIA TP9	1.0	Ν	<u>819907</u>
D	147m N	298425 516914	A595 HENSINGHAM BYPASS CUMBRIA TP8	2.0	Ν	<u>819906</u>
12	162m S	298416 516449	A595 HENSINGHAM BYPASS CUMBRIA TP17	2.0	Ν	<u>819915</u>
Е	163m NW	298367 516912	A595 HENSINGHAM BYPASS CUMBRIA 4	19.0	Ν	819880
Е	183m NW	298351 516927	A595 HENSINGHAM BYPASS CUMBRIA TP10	2.0	Ν	<u>819908</u>
13	186m S	298442 516417	A595 HENSINGHAM BYPASS CUMBRIA 11	15.0	Ν	<u>819887</u>
F	206m N	298410 516971	A595 HENSINGHAM BYPASS CUMBRIA 5	19.0	Ν	<u>819881</u>
F	222m N	298407 516987	A595 HENSINGHAM BYPASS CUMBRIA TP7	2.0	Ν	819905
G	230m N	298377 516987	A595 HENSINGHAM BYPASS CUMBRIA 16	3.0	Ν	<u>819892</u>
G	236m N	298354 516986	A595 HENSINGHAM BYPASS CUMBRIA TP6	3.0	Ν	819904
14	240m S	298451 516362	A595 HENSINGHAM BYPASS CUMBRIA TP18	2.0	Ν	<u>819916</u>

This data is sourced from the British Geological Survey.

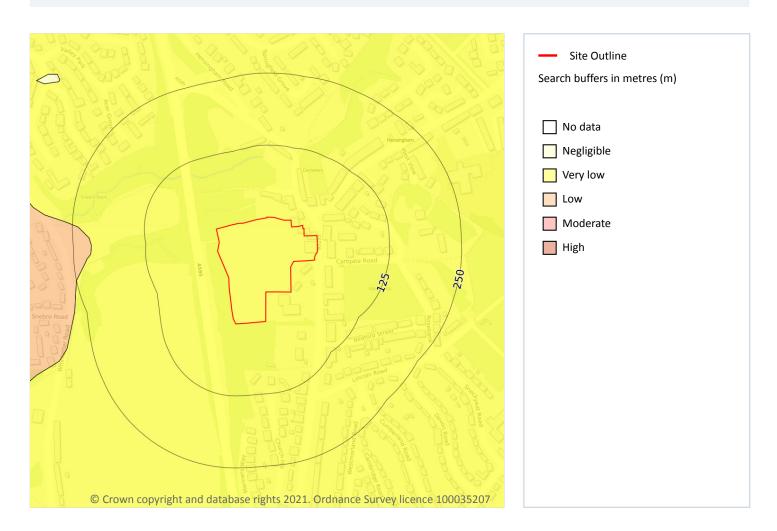






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

## 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 84

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

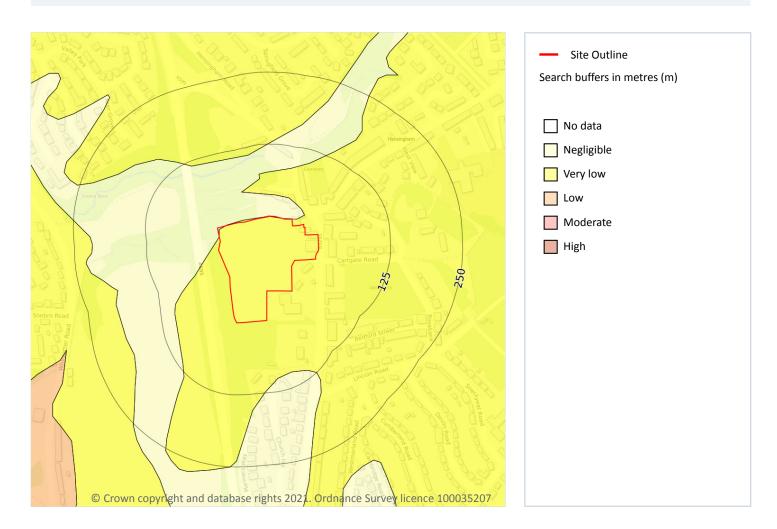






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

## 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 85

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







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

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

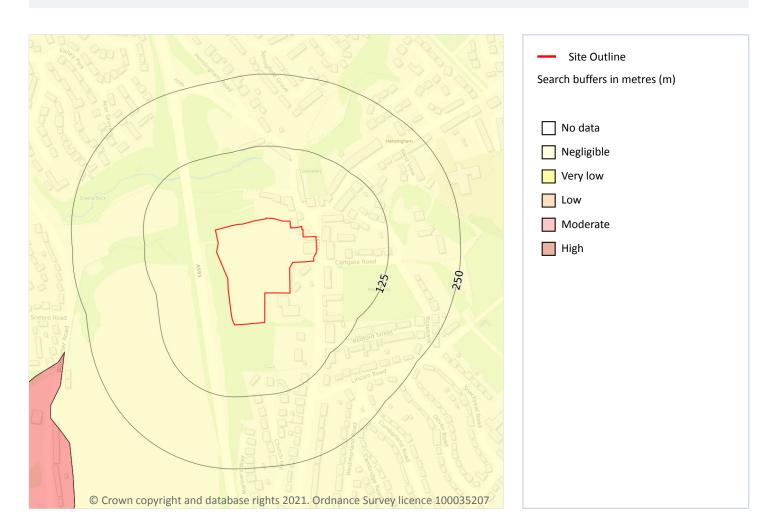
This data is sourced from the British Geological Survey.







## Natural ground subsidence - Compressible deposits



#### **17.3 Compressible deposits**

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

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 87

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

This data is sourced from the British Geological Survey.

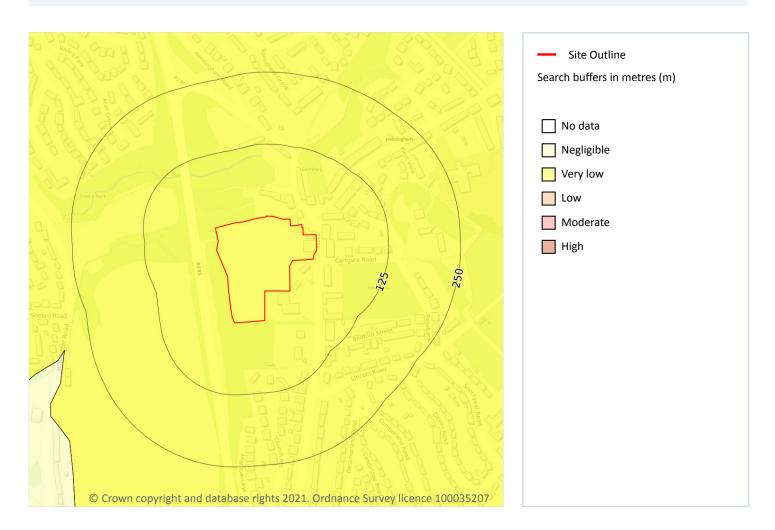






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

## 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 88

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

This data is sourced from the British Geological Survey.

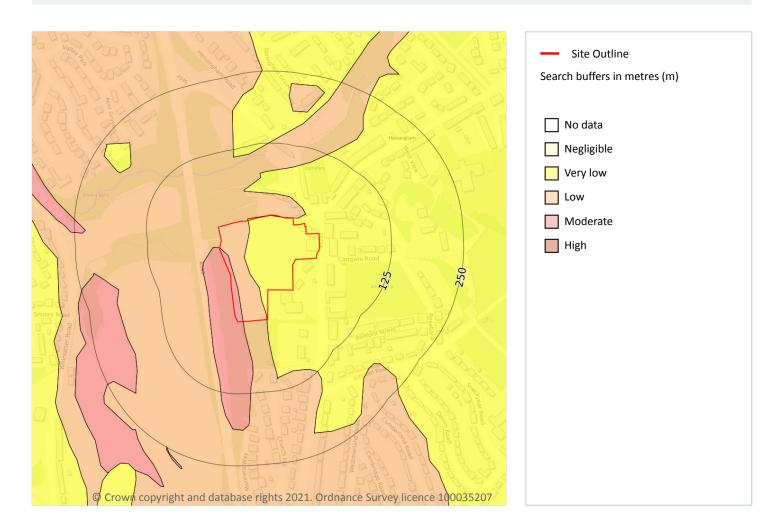






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

## 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 89

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.







Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
On site	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

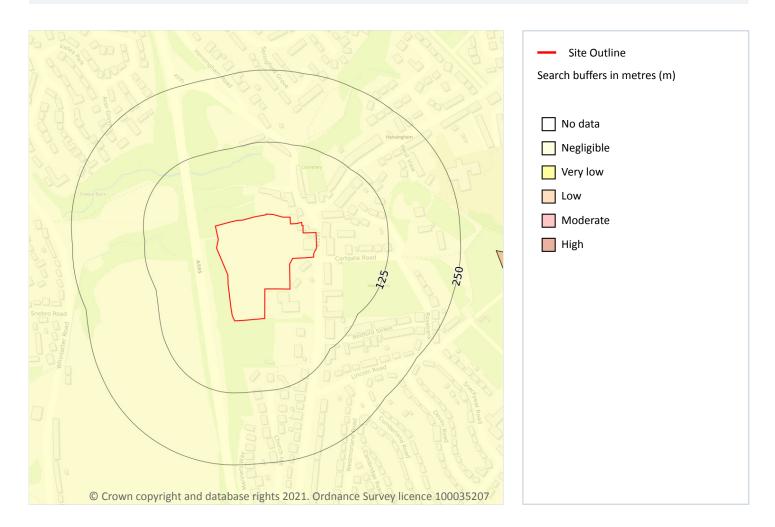
This data is sourced from the British Geological Survey.







## 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 91

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.

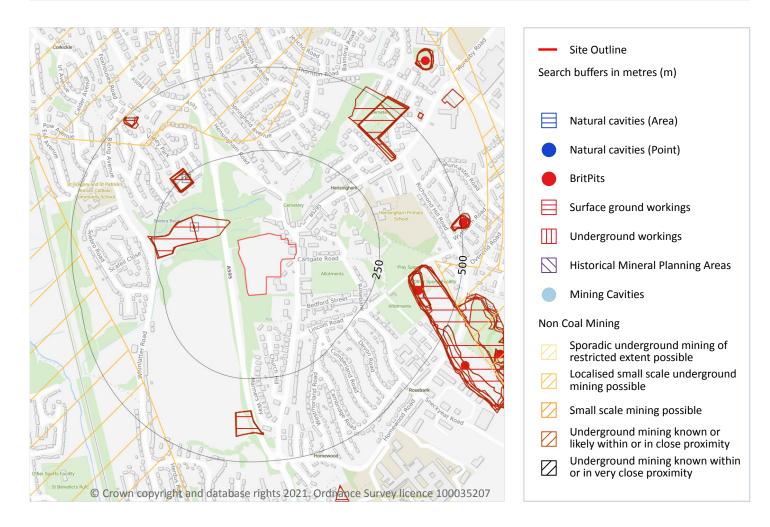






Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

## 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.

Features are displayed on the Mining, ground workings and natural cavities map on page 92

ID	Location	Details	Description
D	383m E	Name: Overend Quarry Address: Hensingham, WHITEHAVEN, Cumbria Commodity: Limestone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

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.

#### Features are displayed on the Mining, ground workings and natural cavities map on page 92

ID	Location	Land Use	Year of mapping	Mapping scale
А	54m NW	Sewage Works	1938	1:10560
А	121m W	Sewage Works	1926	1:10560
А	121m W	Sewage Works	1926	1:10560
В	218m NW	Reservoir	1863	1:10560
В	218m NW	Reservoir	1977	1:10000
В	221m NW	Reservoir	1951	1:10560
В	221m NW	Reservoir	1938	1:10560
В	221m NW	Reservoir	1898	1:10560
В	223m NW	Reservoir	1926	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



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9



#### **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.

#### **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).

Features are displayed on the Mining, ground workings and natural cavities map on page 92

ID	Location	Name	Commodity	Class	Likelihood
1	284m N	Not available	Iron Ore (Bedded)	В	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
2	417m E	Not available	Vein Mineral	В	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.





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#### **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.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

*This data is sourced from the Coal Authority.* 

#### 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.





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Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

#### 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).





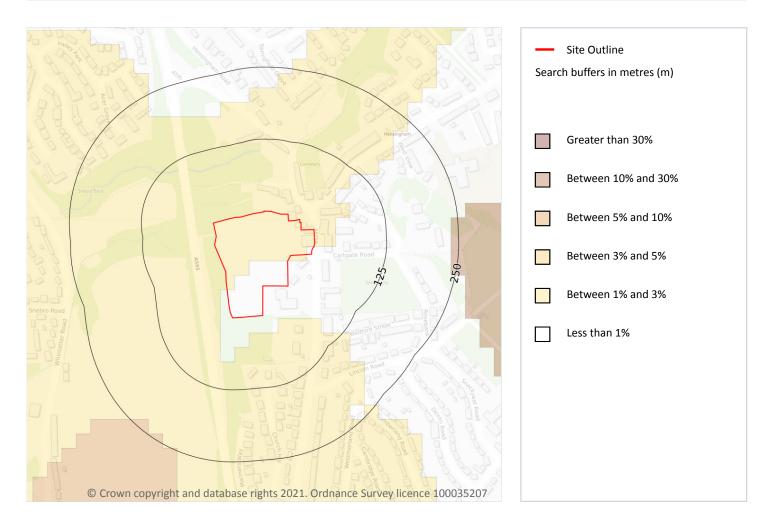
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Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

## 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 97

Location Estimated properties affected		Radon Protection Measures required	
On site	Between 1% and 3%	None	
On site	Less than 1%	None**	







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







## 20 Soil chemistry

## 20.1 BGS Estimated Background Soil Chemistry

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

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

This data is sourced from the British Geological Survey.

## 20.2 BGS Estimated Urban Soil Chemistry

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

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



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## 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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Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

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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Ref: GS-8409786 Your ref: MGL\_1661 Grid ref: 298528 516722

## 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>.

## **Terms and conditions**

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





Appendix D

**Radon Report** 

UK Health Security Agency

# Report of address search for radon risk



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Address searched: Hensingham House South, Egremont Road, Hensingham, Whitehaven, CA28 8QB Date of report: 17 January 2022

#### **Guidance for existing properties**

#### Is this property in a radon Affected Area? - Yes

A radon Affected Area is defined as where the radon level in at least one property in every hundred is estimated to exceed the Action Level.

#### The estimated probability of the property being above the Action Level for radon is: 1-3%

The result may not be valid for buildings larger than 25 metres.

If this site if for redevelopment, you should undertake a GeoReport provided by the British Geological Survey.

This report informs you of the estimated probability that this particular property is above the Action Level for radon. This does not necessarily mean there is a radon problem in the property; the only way to find out whether it is above or below the Action Level is to carry out a radon measurement in an existing property.

Radon Affected Areas are designated by the UK Health Security Agency. UKHSA advises that radon gas should be measured in all properties within Radon Affected Areas.

If you are buying a currently occupied property in a Radon Affected Area, you should ask the present owner whether radon levels have been measured in the property. If they have, ask whether the results were above the Radon Action Level and if so, whether remedial measures were installed, radon levels were re-tested, and the results of re-testing confirmed the effectiveness of the measures.

Further information is available from UKHSA or https://www.ukradon.org

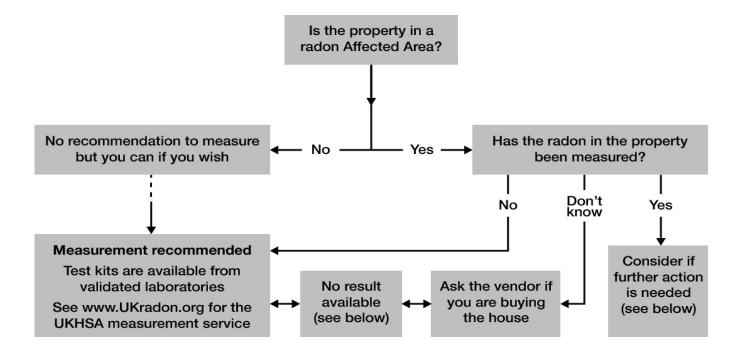
#### Guidance for new buildings and extensions to existing properties

## What is the requirement under Building Regulations for radon protection in new buildings and extensions at the property location? - <u>None</u>

If you are buying a new property in a Radon Affected Area, you should ask the builder whether radon protective measures were incorporated in the construction of the property.

See the Radon and Building Regulations for more details.

#### UKHSA guidance for occupiers and prospective purchases



**Existing radon test results:** There is no public record of individual radon measurements. Results of previous tests can only be obtained from the seller. Radon levels can be significantly affected by changes to the building or its use, particularly by alterations to the heating and ventilation which can also be affected by changes in occupier. If in doubt, test again for reassurance.

**Radon Bond:** This is simply a retained fund, the terms of which are negotiated between the purchaser and the vendor. It allows the conveyance of the property to proceed without undue delay. The purchaser is protected against the possible cost of radon reduction work and the seller does not lose sale proceeds if the result is low. Make sure the agreement allows enough time to complete the test, get the result and arrange the work if needed.

**High Results:** Exposure to high levels of radon increases the risk of developing lung cancer. If a test in a home gives a result at or above the Action Level of 200 Becquerels per cubic metre of air (Bq/m3), formal advice will be given to lower the level. Radon reduction will also be recommended if the occupants include smokers or ex-smokers when the radon level is at or above the Target Level of 100 Bq/m3; these groups have a higher risk. Information on health risks and radon reduction work is available from UKHSA. Guidance about radon reduction work is also available from some Local Authorities, the Building Research Establishment and specialist contractors.

UKHSA designated radon website:	https://www.ukradon.org
Building Research Establishment:	http://www.bre.co.uk/page.jsp?id=3137

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Appendix E

**Risk Assessment Method** 

Table 6.3	Classification of Consequence

Classification	Definition	Examples
Severe	Short-term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part IIA. Short-	High concentrations of cyanide on the surface of an informal recreation area.
	term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource.	Major spillage of contaminants from site into controlled water.
	Catastrophic damage to buildings/property. A short-term risk to a particular ecosystem (note: the definitions of ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	Explosion, causing building collapse (can also equate to a short-term human health risk if buildings are occupied)
Medium	Chronic damage to Human Health ("significant harm" as defined in DETR, 2000). Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering	Concentrations of a contaminant from site exceed the generic, or site -specific assessment criteria.
	significance of pollution). A significant change in a particular ecosystem, or organism forming part of such ecosystem. (Note: the definitions of	Leaching of contaminants from a site to a major or minor aquifer.
	ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	Death of a species within a designated nature reserve.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings,	Pollution of non-classified groundwater.
	structures and services ("significant harm" as defined in the <i>Draft Circular on Contaminated</i> <i>Land</i> , DETR, 2000). Damage to sensitive buildings/structures or the environment.	Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to health (easily prevented by means such	The presence of contaminants at such concentrations that protective equipment is required during site works.
	as personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.	The loss of plants in a landscaping scheme.
	Structures and Services.	Discoloration of concrete.

#### Table 6.4 Classification of Probability

Classification	Definition
High Likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such an event would take place, and is less likely in the shorter term.
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

			consequence					
		severe	medium	mild	minor			
	high likelihood	very high risk	high risk	moderate risk	moderate/ low risk			
bility	likely	high risk	moderate risk	moderate/ low risk	low risk			
probability	low likelihood	moderate risk	moderate/low risk	low risk	very low risk			
	unlikely	moderate/ low risk	low risk	very low risk	very low risk			

#### Table 6.5 Comparison of consequence against probability

Table 6.6	Description of the classified risks and likely action required
Very high risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening.
	This risk, if realised, is likely to result in a substantial liability.
	Urgent investigation (if not undertaken already) and remediation are likely to be required.
High risk	Harm is likely to arise to a designated receptor from an identified hazard.
	Realisation of the risk is likely to present a substantial liability.
	Urgent investigation (if not undertaken already) is required and remedial work may be necessary in the short term and are likely over the longer term.
Moderate risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, if it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild.
	Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Low risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very low risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.