

## **Appendix F**

### **Groundsure Report**

CARDIFF WATER ACTIVITY CENTRE, JIM DRISCOLL WAY, GRANGETOWN, CARDIFF, CF11 7HB

## Order Details

**Date:** 09/11/2021  
**Your ref:** 14056317\_-400-\_Channel\_Footbridge  
**Our Ref:** GS-8323207  
**Client:** Arcadis Consulting (UK) Ltd

## Site Details

**Location:** 318094 174115  
**Area:** 1.65 ha  
**Authority:** [Caerdydd - Cardiff Council](#)



**Summary of findings**

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**Aerial image**

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**OS MasterMap site plan**

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## Summary of findings

| Page               | Section             | Past land use                                            | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|--------------------|---------------------|----------------------------------------------------------|---------|-------|---------|----------|-----------|
| <a href="#">14</a> | <a href="#">1.1</a> | <a href="#">Historical industrial land uses</a>          | 3       | 2     | 38      | 107      | -         |
| <a href="#">20</a> | <a href="#">1.2</a> | <a href="#">Historical tanks</a>                         | 0       | 2     | 8       | 99       | -         |
| <a href="#">24</a> | <a href="#">1.3</a> | <a href="#">Historical energy features</a>               | 0       | 0     | 9       | 26       | -         |
| <a href="#">26</a> | <a href="#">1.4</a> | <a href="#">Historical petrol stations</a>               | 0       | 0     | 2       | 1        | -         |
| <a href="#">26</a> | <a href="#">1.5</a> | <a href="#">Historical garages</a>                       | 0       | 0     | 0       | 5        | -         |
| 27                 | 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 |
| <a href="#">28</a> | <a href="#">2.1</a> | <a href="#">Historical industrial land uses</a>          | 4       | 3     | 46      | 126      | -         |
| <a href="#">35</a> | <a href="#">2.2</a> | <a href="#">Historical tanks</a>                         | 0       | 6     | 15      | 170      | -         |
| <a href="#">42</a> | <a href="#">2.3</a> | <a href="#">Historical energy features</a>               | 0       | 0     | 18      | 67       | -         |
| <a href="#">45</a> | <a href="#">2.4</a> | <a href="#">Historical petrol stations</a>               | 0       | 0     | 3       | 1        | -         |
| <a href="#">46</a> | <a href="#">2.5</a> | <a href="#">Historical garages</a>                       | 0       | 0     | 0       | 7        | -         |
| Page               | Section             | Waste and landfill                                       | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#">47</a> | <a href="#">3.1</a> | <a href="#">Active or recent landfill</a>                | 0       | 0     | 0       | 1        | -         |
| 48                 | 3.2                 | Historical landfill (BGS records)                        | 0       | 0     | 0       | 0        | -         |
| <a href="#">48</a> | <a href="#">3.3</a> | <a href="#">Historical landfill (LA/mapping records)</a> | 0       | 0     | 0       | 8        | -         |
| <a href="#">48</a> | <a href="#">3.4</a> | <a href="#">Historical landfill (EA/NRW records)</a>     | 2       | 0     | 3       | 10       | -         |
| <a href="#">51</a> | <a href="#">3.5</a> | <a href="#">Historical waste sites</a>                   | 0       | 0     | 4       | 9        | -         |
| <a href="#">53</a> | <a href="#">3.6</a> | <a href="#">Licensed waste sites</a>                     | 0       | 0     | 2       | 0        | -         |
| <a href="#">54</a> | <a href="#">3.7</a> | <a href="#">Waste exemptions</a>                         | 0       | 0     | 0       | 3        | -         |
| Page               | Section             | Current industrial land use                              | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#">55</a> | <a href="#">4.1</a> | <a href="#">Recent industrial land uses</a>              | 0       | 0     | 11      | -        | -         |
| 56                 | 4.2                 | Current or recent petrol stations                        | 0       | 0     | 0       | 0        | -         |
| 56                 | 4.3                 | Electricity cables                                       | 0       | 0     | 0       | 0        | -         |
| 57                 | 4.4                 | Gas pipelines                                            | 0       | 0     | 0       | 0        | -         |
| 57                 | 4.5                 | Sites determined as Contaminated Land                    | 0       | 0     | 0       | 0        | -         |



| <b>57</b> | <b>4.6</b>  | <b><u>Control of Major Accident Hazards (COMAH)</u></b> | 0                        | 0     | 0       | 1        | -         |
|-----------|-------------|---------------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| 57        | 4.7         | Regulated explosive sites                               | 0                        | 0     | 0       | 0        | -         |
| <b>58</b> | <b>4.8</b>  | <b><u>Hazardous substance storage/usage</u></b>         | 0                        | 0     | 0       | 5        | -         |
| 58        | 4.9         | Historical licensed industrial activities (IPC)         | 0                        | 0     | 0       | 0        | -         |
| 59        | 4.10        | Licensed industrial activities (Part A(1))              | 0                        | 0     | 0       | 0        | -         |
| 59        | 4.11        | Licensed pollutant release (Part A(2)/B)                | 0                        | 0     | 0       | 0        | -         |
| 59        | 4.12        | Radioactive Substance Authorisations                    | 0                        | 0     | 0       | 0        | -         |
| <b>59</b> | <b>4.13</b> | <b><u>Licensed Discharges to controlled waters</u></b>  | 0                        | 1     | 9       | 13       | -         |
| 62        | 4.14        | Pollutant release to surface waters (Red List)          | 0                        | 0     | 0       | 0        | -         |
| 63        | 4.15        | Pollutant release to public sewer                       | 0                        | 0     | 0       | 0        | -         |
| 63        | 4.16        | List 1 Dangerous Substances                             | 0                        | 0     | 0       | 0        | -         |
| 63        | 4.17        | List 2 Dangerous Substances                             | 0                        | 0     | 0       | 0        | -         |
| <b>63</b> | <b>4.18</b> | <b><u>Pollution Incidents (EA/NRW)</u></b>              | 0                        | 1     | 0       | 2        | -         |
| 64        | 4.19        | Pollution inventory substances                          | 0                        | 0     | 0       | 0        | -         |
| 64        | 4.20        | Pollution inventory waste transfers                     | 0                        | 0     | 0       | 0        | -         |
| 64        | 4.21        | Pollution inventory radioactive waste                   | 0                        | 0     | 0       | 0        | -         |
| Page      | Section     | Hydrogeology                                            | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>65</b> | <b>5.1</b>  | <b><u>Superficial aquifer</u></b>                       | Identified (within 500m) |       |         |          |           |
| <b>66</b> | <b>5.2</b>  | <b><u>Bedrock aquifer</u></b>                           | Identified (within 500m) |       |         |          |           |
| <b>67</b> | <b>5.3</b>  | <b><u>Groundwater vulnerability</u></b>                 | Identified (within 50m)  |       |         |          |           |
| 68        | 5.4         | Groundwater vulnerability- soluble rock risk            | None (within 0m)         |       |         |          |           |
| 68        | 5.5         | Groundwater vulnerability- local information            | None (within 0m)         |       |         |          |           |
| <b>69</b> | <b>5.6</b>  | <b><u>Groundwater abstractions</u></b>                  | 0                        | 0     | 0       | 1        | 6         |
| <b>71</b> | <b>5.7</b>  | <b><u>Surface water abstractions</u></b>                | 0                        | 0     | 0       | 0        | 11        |
| 74        | 5.8         | Potable abstractions                                    | 0                        | 0     | 0       | 0        | 0         |
| 74        | 5.9         | Source Protection Zones                                 | 0                        | 0     | 0       | 0        | -         |
| 74        | 5.10        | Source Protection Zones (confined aquifer)              | 0                        | 0     | 0       | 0        | -         |
| Page      | Section     | Hydrology                                               | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>75</b> | <b>6.1</b>  | <b><u>Water Network (OS MasterMap)</u></b>              | 1                        | 0     | 0       | -        | -         |

| <a href="#"><u>76</u></a> | <a href="#"><u>6.2</u></a>  | <a href="#"><u>Surface water features</u></a>                      | 1                                       | 0     | 1       | -        | -         |
|---------------------------|-----------------------------|--------------------------------------------------------------------|-----------------------------------------|-------|---------|----------|-----------|
| <a href="#"><u>76</u></a> | <a href="#"><u>6.3</u></a>  | <a href="#"><u>WFD Surface water body catchments</u></a>           | 1                                       | -     | -       | -        | -         |
| <a href="#"><u>76</u></a> | <a href="#"><u>6.4</u></a>  | <a href="#"><u>WFD Surface water bodies</u></a>                    | 2                                       | 0     | 0       | -        | -         |
| <a href="#"><u>77</u></a> | <a href="#"><u>6.5</u></a>  | <a href="#"><u>WFD Groundwater bodies</u></a>                      | 1                                       | -     | -       | -        | -         |
| Page                      | Section                     | River and coastal flooding                                         | On site                                 | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#"><u>78</u></a> | <a href="#"><u>7.1</u></a>  | <a href="#"><u>Risk of flooding from rivers and the sea</u></a>    | High (within 50m)                       |       |         |          |           |
| 79                        | 7.2                         | Historical Flood Events                                            | 0                                       | 0     | 0       | -        | -         |
| 79                        | 7.3                         | Flood Defences                                                     | 0                                       | 0     | 0       | -        | -         |
| <a href="#"><u>79</u></a> | <a href="#"><u>7.4</u></a>  | <a href="#"><u>Areas Benefiting from Flood Defences</u></a>        | 6                                       | 0     | 5       | -        | -         |
| 80                        | 7.5                         | Flood Storage Areas                                                | 0                                       | 0     | 0       | -        | -         |
| <a href="#"><u>81</u></a> | <a href="#"><u>7.6</u></a>  | <a href="#"><u>Flood Zone 2</u></a>                                | Identified (within 50m)                 |       |         |          |           |
| <a href="#"><u>82</u></a> | <a href="#"><u>7.7</u></a>  | <a href="#"><u>Flood Zone 3</u></a>                                | Identified (within 50m)                 |       |         |          |           |
| Page                      | Section                     | Surface water flooding                                             |                                         |       |         |          |           |
| <a href="#"><u>83</u></a> | <a href="#"><u>8.1</u></a>  | <a href="#"><u>Surface water flooding</u></a>                      | 1 in 100 year, 0.3m - 1.0m (within 50m) |       |         |          |           |
| Page                      | Section                     | Groundwater flooding                                               |                                         |       |         |          |           |
| <a href="#"><u>85</u></a> | <a href="#"><u>9.1</u></a>  | <a href="#"><u>Groundwater flooding</u></a>                        | Low (within 50m)                        |       |         |          |           |
| Page                      | Section                     | Environmental designations                                         | On site                                 | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#"><u>86</u></a> | <a href="#"><u>10.1</u></a> | <a href="#"><u>Sites of Special Scientific Interest (SSSI)</u></a> | 0                                       | 0     | 0       | 0        | 2         |
| <a href="#"><u>87</u></a> | <a href="#"><u>10.2</u></a> | <a href="#"><u>Conserved wetland sites (Ramsar sites)</u></a>      | 0                                       | 0     | 0       | 0        | 1         |
| <a href="#"><u>89</u></a> | <a href="#"><u>10.3</u></a> | <a href="#"><u>Special Areas of Conservation (SAC)</u></a>         | 0                                       | 0     | 0       | 0        | 1         |
| <a href="#"><u>89</u></a> | <a href="#"><u>10.4</u></a> | <a href="#"><u>Special Protection Areas (SPA)</u></a>              | 0                                       | 0     | 0       | 0        | 1         |
| 90                        | 10.5                        | National Nature Reserves (NNR)                                     | 0                                       | 0     | 0       | 0        | 0         |
| <a href="#"><u>90</u></a> | <a href="#"><u>10.6</u></a> | <a href="#"><u>Local Nature Reserves (LNR)</u></a>                 | 1                                       | 0     | 0       | 1        | 0         |
| <a href="#"><u>90</u></a> | <a href="#"><u>10.7</u></a> | <a href="#"><u>Designated Ancient Woodland</u></a>                 | 0                                       | 0     | 0       | 0        | 14        |
| 91                        | 10.8                        | Biosphere Reserves                                                 | 0                                       | 0     | 0       | 0        | 0         |
| 91                        | 10.9                        | Forest Parks                                                       | 0                                       | 0     | 0       | 0        | 0         |
| 91                        | 10.10                       | Marine Conservation Zones                                          | 0                                       | 0     | 0       | 0        | 0         |
| 92                        | 10.11                       | Green Belt                                                         | 0                                       | 0     | 0       | 0        | 0         |
| 92                        | 10.12                       | Proposed Ramsar sites                                              | 0                                       | 0     | 0       | 0        | 0         |



| 92         | 10.13        | Possible Special Areas of Conservation (pSAC)  | 0                               | 0        | 0        | 0        | 0         |
|------------|--------------|------------------------------------------------|---------------------------------|----------|----------|----------|-----------|
| 92         | 10.14        | Potential Special Protection Areas (pSPA)      | 0                               | 0        | 0        | 0        | 0         |
| 92         | 10.15        | Nitrate Sensitive Areas                        | 0                               | 0        | 0        | 0        | 0         |
| 93         | 10.16        | Nitrate Vulnerable Zones                       | 0                               | 0        | 0        | 0        | 0         |
| <b>94</b>  | <b>10.17</b> | <b><u>SSSI Impact Risk Zones</u></b>           | <b>1</b>                        | -        | -        | -        | -         |
| 95         | 10.18        | SSSI Units                                     | 0                               | 0        | 0        | 0        | 0         |
| Page       | Section      | Visual and cultural designations               | On site                         | 0-50m    | 50-250m  | 250-500m | 500-2000m |
| 96         | 11.1         | World Heritage Sites                           | 0                               | 0        | 0        | -        | -         |
| 97         | 11.2         | Area of Outstanding Natural Beauty             | 0                               | 0        | 0        | -        | -         |
| 97         | 11.3         | National Parks                                 | 0                               | 0        | 0        | -        | -         |
| 97         | 11.4         | Listed Buildings                               | 0                               | 0        | 0        | -        | -         |
| 97         | 11.5         | Conservation Areas                             | 0                               | 0        | 0        | -        | -         |
| <b>98</b>  | <b>11.6</b>  | <b><u>Scheduled Ancient Monuments</u></b>      | <b>0</b>                        | <b>1</b> | <b>0</b> | <b>-</b> | <b>-</b>  |
| 98         | 11.7         | Registered Parks and Gardens                   | 0                               | 0        | 0        | -        | -         |
| Page       | Section      | Agricultural designations                      | On site                         | 0-50m    | 50-250m  | 250-500m | 500-2000m |
| <b>99</b>  | <b>12.1</b>  | <b><u>Agricultural Land Classification</u></b> | <b>Grade 5 (within 250m)</b>    |          |          |          |           |
| 100        | 12.2         | Open Access Land                               | 0                               | 0        | 0        | -        | -         |
| 100        | 12.3         | Tree Felling Licences                          | 0                               | 0        | 0        | -        | -         |
| 100        | 12.4         | Environmental Stewardship Schemes              | 0                               | 0        | 0        | -        | -         |
| 101        | 12.5         | Countryside Stewardship Schemes                | 0                               | 0        | 0        | -        | -         |
| Page       | Section      | Habitat designations                           | On site                         | 0-50m    | 50-250m  | 250-500m | 500-2000m |
| 102        | 13.1         | Priority Habitat Inventory                     | 0                               | 0        | 0        | -        | -         |
| 102        | 13.2         | Habitat Networks                               | 0                               | 0        | 0        | -        | -         |
| 102        | 13.3         | Open Mosaic Habitat                            | 0                               | 0        | 0        | -        | -         |
| 102        | 13.4         | Limestone Pavement Orders                      | 0                               | 0        | 0        | -        | -         |
| Page       | Section      | Geology 1:10,000 scale                         | On site                         | 0-50m    | 50-250m  | 250-500m | 500-2000m |
| <b>103</b> | <b>14.1</b>  | <b><u>10k Availability</u></b>                 | <b>Identified (within 500m)</b> |          |          |          |           |
| 104        | 14.2         | Artificial and made ground (10k)               | 0                               | 0        | 0        | 0        | -         |
| 105        | 14.3         | Superficial geology (10k)                      | 0                               | 0        | 0        | 0        | -         |



| 105               | 14.4               | Landslip (10k)                                     | 0                        | 0     | 0       | 0        | -         |
|-------------------|--------------------|----------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| 106               | 14.5               | Bedrock geology (10k)                              | 0                        | 0     | 0       | 0        | -         |
| 106               | 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 |
| <b><u>107</u></b> | <b><u>15.1</u></b> | <b><u>50k Availability</u></b>                     | Identified (within 500m) |       |         |          |           |
| <b><u>108</u></b> | <b><u>15.2</u></b> | <b><u>Artificial and made ground (50k)</u></b>     | 1                        | 0     | 1       | 1        | -         |
| <b><u>109</u></b> | <b><u>15.3</u></b> | <b><u>Artificial ground permeability (50k)</u></b> | 1                        | 0     | -       | -        | -         |
| <b><u>110</u></b> | <b><u>15.4</u></b> | <b><u>Superficial geology (50k)</u></b>            | 2                        | 0     | 0       | 0        | -         |
| <b><u>111</u></b> | <b><u>15.5</u></b> | <b><u>Superficial permeability (50k)</u></b>       | Identified (within 50m)  |       |         |          |           |
| 111               | 15.6               | Landslip (50k)                                     | 0                        | 0     | 0       | 0        | -         |
| 111               | 15.7               | Landslip permeability (50k)                        | None (within 50m)        |       |         |          |           |
| <b><u>112</u></b> | <b><u>15.8</u></b> | <b><u>Bedrock geology (50k)</u></b>                | 1                        | 0     | 0       | 0        | -         |
| <b><u>113</u></b> | <b><u>15.9</u></b> | <b><u>Bedrock permeability (50k)</u></b>           | Identified (within 50m)  |       |         |          |           |
| 113               | 15.10              | Bedrock faults and other linear features (50k)     | 0                        | 0     | 0       | 0        | -         |
| Page              | Section            | Boreholes                                          | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b><u>114</u></b> | <b><u>16.1</u></b> | <b><u>BGS Boreholes</u></b>                        | 9                        | 4     | 75      | -        | -         |
| Page              | Section            | Natural ground subsidence                          |                          |       |         |          |           |
| <b><u>119</u></b> | <b><u>17.1</u></b> | <b><u>Shrink swell clays</u></b>                   | Very low (within 50m)    |       |         |          |           |
| <b><u>120</u></b> | <b><u>17.2</u></b> | <b><u>Running sands</u></b>                        | Moderate (within 50m)    |       |         |          |           |
| <b><u>122</u></b> | <b><u>17.3</u></b> | <b><u>Compressible deposits</u></b>                | Moderate (within 50m)    |       |         |          |           |
| <b><u>124</u></b> | <b><u>17.4</u></b> | <b><u>Collapsible deposits</u></b>                 | Negligible (within 50m)  |       |         |          |           |
| <b><u>125</u></b> | <b><u>17.5</u></b> | <b><u>Landslides</u></b>                           | Very low (within 50m)    |       |         |          |           |
| <b><u>126</u></b> | <b><u>17.6</u></b> | <b><u>Ground dissolution of soluble rocks</u></b>  | Negligible (within 50m)  |       |         |          |           |
| Page              | Section            | Mining, ground workings and natural cavities       | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 128               | 18.1               | Natural cavities                                   | 0                        | 0     | 0       | 0        | -         |
| <b><u>129</u></b> | <b><u>18.2</u></b> | <b><u>BritPits</u></b>                             | 0                        | 0     | 0       | 1        | -         |
| <b><u>129</u></b> | <b><u>18.3</u></b> | <b><u>Surface ground workings</u></b>              | 3                        | 0     | 19      | -        | -         |
| <b><u>130</u></b> | <b><u>18.4</u></b> | <b><u>Underground workings</u></b>                 | 0                        | 0     | 0       | 2        | 1         |
| 131               | 18.5               | Historical Mineral Planning Areas                  | 0                        | 0     | 0       | 0        | -         |



| 131        | 18.6        | Non-coal mining                                       | 0                        | 0     | 0       | 0        | 0         |
|------------|-------------|-------------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| 131        | 18.7        | Mining cavities                                       | 0                        | 0     | 0       | 0        | 0         |
| 131        | 18.8        | JPB mining areas                                      | None (within 0m)         |       |         |          |           |
| 131        | 18.9        | Coal mining                                           | None (within 0m)         |       |         |          |           |
| 132        | 18.10       | Brine areas                                           | None (within 0m)         |       |         |          |           |
| 132        | 18.11       | Gypsum areas                                          | None (within 0m)         |       |         |          |           |
| 132        | 18.12       | Tin mining                                            | None (within 0m)         |       |         |          |           |
| 132        | 18.13       | Clay mining                                           | None (within 0m)         |       |         |          |           |
| Page       | Section     | Radon                                                 |                          |       |         |          |           |
| <b>133</b> | <b>19.1</b> | <b><u>Radon</u></b>                                   | Less than 1% (within 0m) |       |         |          |           |
| Page       | Section     | Soil chemistry                                        | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>134</b> | <b>20.1</b> | <b><u>BGS Estimated Background Soil Chemistry</u></b> | 3                        | 0     | -       | -        | -         |
| <b>134</b> | <b>20.2</b> | <b><u>BGS Estimated Urban Soil Chemistry</u></b>      | 9                        | 4     | -       | -        | -         |
| 135        | 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 |
| 136        | 21.1        | Underground railways (London)                         | 0                        | 0     | 0       | -        | -         |
| 136        | 21.2        | Underground railways (Non-London)                     | 0                        | 0     | 0       | -        | -         |
| 137        | 21.3        | Railway tunnels                                       | 0                        | 0     | 0       | -        | -         |
| <b>137</b> | <b>21.4</b> | <b><u>Historical railway and tunnel features</u></b>  | 0                        | 0     | 32      | -        | -         |
| 138        | 21.5        | Royal Mail tunnels                                    | 0                        | 0     | 0       | -        | -         |
| 138        | 21.6        | Historical railways                                   | 0                        | 0     | 0       | -        | -         |
| 139        | 21.7        | Railways                                              | 0                        | 0     | 0       | -        | -         |
| 139        | 21.8        | Crossrail 1                                           | 0                        | 0     | 0       | 0        | -         |
| 139        | 21.9        | Crossrail 2                                           | 0                        | 0     | 0       | 0        | -         |
| 139        | 21.10       | HS2                                                   | 0                        | 0     | 0       | 0        | -         |



## Recent aerial photograph



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Capture Date: 14/04/2020

Site Area: 1.65ha



## Recent site history - 2017 aerial photograph



Capture Date: 05/07/2017

Site Area: 1.65ha



## Recent site history - 2013 aerial photograph



Capture Date: 14/07/2013

Site Area: 1.65ha



## Recent site history - 2008 aerial photograph



Capture Date: 12/05/2008

Site Area: 1.65ha



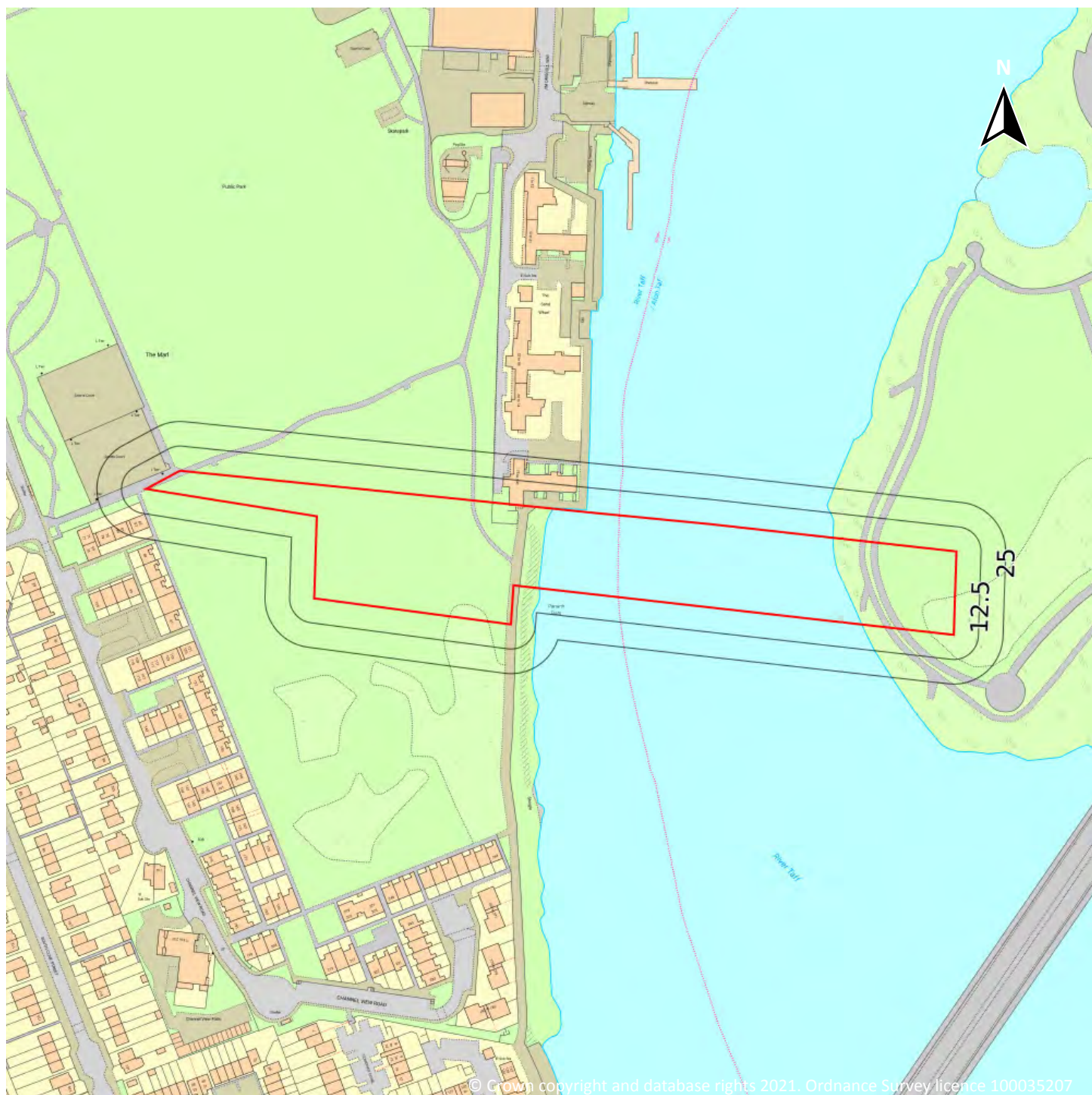
## Recent site history - 2000 aerial photograph



Capture Date: 21/07/2000

Site Area: 1.65ha

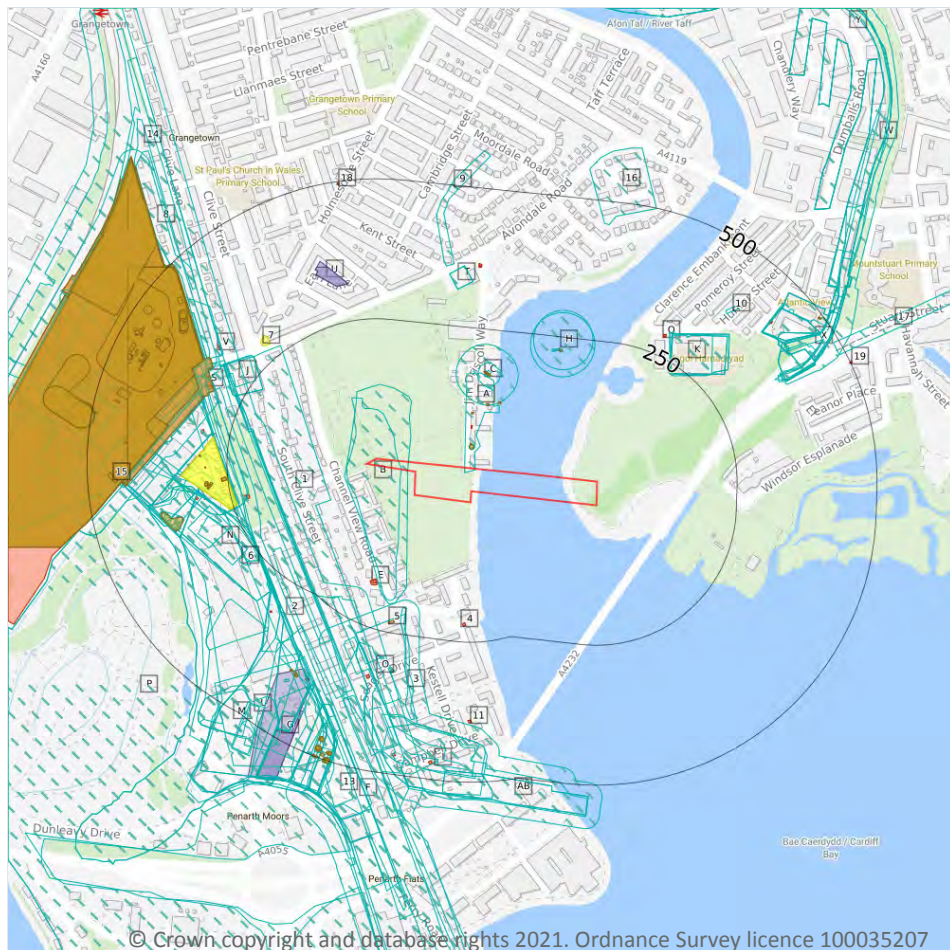
## OS MasterMap site plan



Site Area: 1.65ha



## 1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

### 1.1 Historical industrial land uses

Records within 500m

150

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 14**

| ID | Location | Land use             | Dates present | Group ID |
|----|----------|----------------------|---------------|----------|
| A  | On site  | Sand and Gravel Yard | 1963          | 1157429  |



| ID       | Location       | Land use                           | Dates present | Group ID       |
|----------|----------------|------------------------------------|---------------|----------------|
| <b>B</b> | <b>On site</b> | <b>Unspecified Ground Workings</b> | <b>1915</b>   | <b>1160134</b> |
| <b>B</b> | <b>On site</b> | <b>Unspecified Pit</b>             | <b>1938</b>   | <b>1199663</b> |
| A        | 34m N          | Unspecified Tank                   | 1974 - 1983   | 1227102        |
| A        | 34m N          | Unspecified Tank                   | 1963          | 1264416        |
| 1        | 82m W          | Unspecified Commercial/Industrial  | 1938          | 1242045        |
| C        | 115m N         | Sewage Tank                        | 1922          | 1231277        |
| C        | 145m N         | Sewage Tank                        | 1915          | 1199263        |
| D        | 147m W         | Docks                              | 1922          | 1162147        |
| C        | 165m N         | Sewage Tank                        | 1889          | 1261565        |
| C        | 167m N         | Sewage Tank                        | 1938          | 1243702        |
| F        | 170m W         | Railway Sidings                    | 1879          | 1230520        |
| D        | 172m W         | Railway Sidings                    | 1878 - 1947   | 1219297        |
| F        | 173m W         | Railway Sidings                    | 1974          | 1212587        |
| G        | 173m W         | Railway Sidings                    | 1983          | 1199275        |
| G        | 176m W         | Railway Sidings                    | 1963          | 1213452        |
| H        | 179m N         | Sewage Tank                        | 1922          | 1255232        |
| I        | 188m S         | Graving Dock                       | 1915          | 1254939        |
| 2        | 190m W         | Railway Sidings                    | 1995          | 1272342        |
| H        | 192m N         | Sewage Tank                        | 1915          | 1229319        |
| 3        | 203m S         | Unspecified Ground Workings        | 1938          | 1202383        |
| F        | 206m W         | Candle Works                       | 1889          | 1187480        |
| I        | 212m S         | Unspecified Commercial/Industrial  | 1947          | 1213684        |
| D        | 217m W         | Rope Works                         | 1915          | 1223420        |
| D        | 220m W         | Rope Works                         | 1922          | 1264275        |
| H        | 222m N         | Sewage Tank                        | 1938          | 1219084        |
| H        | 222m N         | Sewage Tank                        | 1938          | 1249485        |
| H        | 223m N         | Sewage Tank                        | 1889          | 1191876        |
| I        | 228m SW        | Railway Sidings                    | 1889 - 1915   | 1265324        |

| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| J  | 228m NW  | Unspecified Works                 | 1963          | 1178830  |
| J  | 228m NW  | Unspecified Commercial/Industrial | 1974 - 1995   | 1201752  |
| K  | 232m NE  | Hospital                          | 1922 - 1938   | 1212464  |
| K  | 233m NE  | Hospital                          | 1963          | 1196205  |
| K  | 233m NE  | Hospital                          | 1974 - 1995   | 1261177  |
| K  | 234m NE  | Hospital                          | 1947          | 1193588  |
| K  | 234m NE  | Hospital                          | 1915          | 1233078  |
| D  | 238m W   | Unspecified Depot                 | 1963          | 1171238  |
| L  | 239m W   | Unspecified Commercial/Industrial | 1947          | 1196355  |
| L  | 239m W   | Railway Sidings                   | 1947          | 1254460  |
| L  | 241m SW  | Fish Meal Factory                 | 1938          | 1229857  |
| D  | 242m W   | Industrial Estate                 | 1995          | 1164465  |
| D  | 242m W   | Rope Works                        | 1938          | 1191097  |
| J  | 248m NW  | Tramway Depot                     | 1889          | 1179649  |
| M  | 256m SW  | Old Coal Pits                     | 1915          | 1183615  |
| M  | 256m SW  | Old Clay Pits                     | 1922          | 1256874  |
| N  | 263m SW  | Unspecified Works                 | 1963          | 1178831  |
| N  | 268m SW  | Unspecified Depot                 | 1974 - 1983   | 1248373  |
| 6  | 271m SW  | Unspecified Heap                  | 1938          | 1260942  |
| O  | 276m SW  | Transport Depot                   | 1974 - 1983   | 1202486  |
| P  | 277m SW  | Refuse Tips                       | 1995          | 1157952  |
| P  | 277m SW  | Refuse Heap                       | 1983          | 1178020  |
| D  | 277m W   | Unspecified Tanks                 | 1947          | 1168552  |
| D  | 281m W   | Unspecified Works                 | 1974 - 1995   | 1249037  |
| D  | 281m W   | Unspecified Works                 | 1963          | 1252128  |
| I  | 282m S   | Railway Sidings                   | 1947          | 1238163  |
| D  | 289m W   | Rope Walk                         | 1915          | 1262744  |
| D  | 301m W   | Scrap Metal Yard                  | 1974          | 1183877  |



| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| D  | 308m W   | Unspecified Ground Workings       | 1938          | 1194284  |
| D  | 309m NW  | Unspecified Commercial/Industrial | 1889          | 1244984  |
| D  | 313m W   | Rope Walk                         | 1938          | 1268776  |
| T  | 316m N   | Nursery                           | 1963          | 1196303  |
| T  | 316m N   | Nursery                           | 1974          | 1215703  |
| R  | 323m NW  | Gas Works                         | 1922          | 1251341  |
| R  | 323m NW  | Railway Sidings                   | 1915 - 1963   | 1253080  |
| R  | 328m NW  | Unspecified Commercial/Industrial | 1938 - 1947   | 1248008  |
| R  | 332m NW  | Unspecified Works                 | 1963          | 1178838  |
| 8  | 338m NW  | Railway Sidings                   | 1947          | 1211211  |
| G  | 340m SW  | Unspecified Works                 | 1974 - 1983   | 1193427  |
| R  | 340m NW  | Iron Works                        | 1879          | 1174663  |
| L  | 340m SW  | Old Clay Pits                     | 1938          | 1202721  |
| D  | 341m W   | Oil Tanks                         | 1915 - 1922   | 1259325  |
| D  | 342m W   | Unspecified Tanks                 | 1938          | 1168551  |
| R  | 343m NW  | Railway Sidings                   | 1889          | 1204576  |
| R  | 343m NW  | Gas Works                         | 1889          | 1257469  |
| D  | 343m W   | Oil Tank                          | 1915          | 1174261  |
| D  | 344m W   | Unspecified Covered Tanks         | 1889          | 1177904  |
| R  | 345m NW  | Gas Works                         | 1915          | 1248436  |
| D  | 348m W   | Wagon Works                       | 1963          | 1177914  |
| G  | 350m SW  | Brick Works                       | 1879          | 1171525  |
| R  | 351m NW  | Gas Works                         | 1983 - 1995   | 1195644  |
| R  | 351m NW  | Gas Works                         | 1974          | 1240611  |
| 9  | 355m N   | Unspecified Heap                  | 1915          | 1162362  |
| D  | 355m W   | Unspecified Covered Tanks         | 1889          | 1177905  |
| D  | 364m W   | Unspecified Covered Tanks         | 1889          | 1177901  |
| W  | 366m NE  | Disused Canal                     | 1974 - 1983   | 1229182  |



| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| G  | 370m SW  | Brick Kilns                       | 1879          | 1177761  |
| W  | 371m NE  | Railway Sidings                   | 1901 - 1938   | 1192148  |
| D  | 372m W   | Unspecified Covered Tanks         | 1889          | 1177902  |
| X  | 377m NE  | Railway Sidings                   | 1938          | 1210460  |
| X  | 377m NE  | Corporation Depot                 | 1938          | 1250875  |
| X  | 378m NE  | Railway Sidings                   | 1915          | 1212290  |
| G  | 378m SW  | Unspecified Wharf                 | 1963          | 1259232  |
| 10 | 379m NE  | Fever Hospital                    | 1879          | 1166236  |
| W  | 379m NE  | Disused Canal                     | 1963          | 1253011  |
| G  | 383m SW  | Unspecified Wharf                 | 1983          | 1261166  |
| X  | 383m NE  | Railway Sidings                   | 1947          | 1251466  |
| X  | 383m NE  | Unspecified Commercial/Industrial | 1947          | 1268169  |
| I  | 383m S   | Unspecified Depot                 | 1963          | 1171239  |
| G  | 388m SW  | Unspecified Wharf                 | 1974          | 1238716  |
| I  | 393m S   | Graving Dock                      | 1938          | 1222836  |
| 12 | 396m S   | Graving Dock                      | 1922          | 1265493  |
| X  | 398m NE  | Unspecified Commercial/Industrial | 1983          | 1196937  |
| X  | 398m NE  | Unspecified Factory               | 1974          | 1205216  |
| X  | 398m NE  | Unspecified Factory               | 1963          | 1241407  |
| G  | 398m SW  | Brick Kilns                       | 1879          | 1177757  |
| R  | 398m NW  | Unspecified Tanks                 | 1947          | 1257280  |
| R  | 401m NW  | Gasometers                        | 1974          | 1164411  |
| R  | 402m NW  | Unspecified Tanks                 | 1963          | 1225304  |
| R  | 402m NW  | Gas Works                         | 1995          | 1252303  |
| 13 | 403m S   | Railway Sidings                   | 1915          | 1189926  |
| G  | 403m S   | Unspecified Commercial/Industrial | 1938          | 1206470  |
| I  | 405m S   | Unspecified Commercial/Industrial | 1889          | 1266393  |
| Y  | 406m NE  | Railway Sidings                   | 1963          | 1190118  |



| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| Y  | 406m NE  | Railway Sidings                   | 1963          | 1190119  |
| Y  | 406m NE  | Railway Sidings                   | 1963          | 1190120  |
| G  | 409m SW  | Unspecified Wharf                 | 1938 - 1947   | 1260353  |
| G  | 410m SW  | Unspecified Commercial/Industrial | 1983          | 1207273  |
| R  | 411m NW  | Unspecified Tanks                 | 1974          | 1168547  |
| X  | 412m NE  | Corporation Depot                 | 1915 - 1922   | 1202934  |
| R  | 414m NW  | Unspecified Tanks                 | 1947          | 1252471  |
| R  | 414m NW  | Unspecified Tank                  | 1938          | 1196209  |
| R  | 415m NW  | Unspecified Tank                  | 1915 - 1922   | 1259920  |
| Z  | 419m S   | Railway Sidings                   | 1947          | 1271073  |
| D  | 431m W   | Unspecified Tank                  | 1947          | 1175606  |
| G  | 435m S   | Unspecified Wharf                 | 1889          | 1222543  |
| 14 | 439m NW  | Railway Sidings                   | 1889          | 1241803  |
| Z  | 440m S   | Railway Sidings                   | 1889          | 1265323  |
| R  | 442m NW  | Gasometers                        | 1974          | 1164412  |
| R  | 442m W   | Unspecified Tanks                 | 1947          | 1168548  |
| R  | 443m NW  | Gasometer                         | 1974          | 1165566  |
| AA | 444m SW  | Unspecified Pit                   | 1889          | 1186159  |
| G  | 453m S   | Unspecified Tanks                 | 1974 - 1983   | 1212882  |
| 16 | 459m N   | Unspecified Works                 | 1995          | 1178827  |
| AA | 460m SW  | Old Clay Pits                     | 1938          | 1253964  |
| R  | 461m NW  | Gasometer                         | 1974          | 1165567  |
| AA | 465m SW  | Unspecified Works                 | 1974 - 1983   | 1191231  |
| AA | 469m SW  | Unspecified Works                 | 1963          | 1216392  |
| R  | 476m W   | Unspecified Tanks                 | 1947          | 1168549  |
| G  | 480m S   | Unspecified Tank                  | 1947          | 1175603  |
| G  | 480m S   | Unspecified Tanks                 | 1963          | 1266368  |
| AB | 481m S   | Slipways and Graving Dock         | 1889          | 1226997  |



| ID | Location | Land use                  | Dates present | Group ID |
|----|----------|---------------------------|---------------|----------|
| AB | 481m S   | Slipways and Graving Dock | 1947          | 1261486  |
| 17 | 488m NE  | Tunnel                    | 1995          | 1174090  |
| R  | 491m W   | Unspecified Tank          | 1947          | 1175607  |
| R  | 491m W   | Gasometer                 | 1889 - 1915   | 1223476  |
| R  | 491m W   | Gasometers                | 1974 - 1983   | 1224274  |
| R  | 491m W   | Unspecified Tanks         | 1938          | 1255406  |
| R  | 494m W   | Gasometer                 | 1922          | 1231411  |
| R  | 495m W   | Unspecified Tanks         | 1963          | 1211528  |
| G  | 498m S   | Unspecified Wharf         | 1922          | 1265275  |

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.2 Historical tanks

### Records within 500m

**109**

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 14**

| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| A  | 34m N    | Unspecified Tank | 1953 - 1974   | 192864   |
| A  | 41m N    | Unspecified Tank | 1951 - 1989   | 185408   |
| A  | 97m N    | Unspecified Tank | 1951 - 1953   | 181373   |
| A  | 114m N   | Unspecified Tank | 1951 - 1953   | 185087   |
| A  | 120m N   | Unspecified Tank | 1951 - 1953   | 193389   |
| C  | 166m N   | Sewage Tank      | 1901          | 189830   |
| C  | 168m N   | Sewage Tank      | 1920          | 181306   |
| H  | 223m N   | Sewage Tank      | 1901          | 170870   |
| H  | 225m N   | Sewage Tank      | 1920          | 170869   |



| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| 5  | 227m S   | Unspecified Tank | 1953 - 1986   | 180477   |
| D  | 252m W   | Tanks            | 1953 - 1954   | 187046   |
| D  | 252m W   | Tanks            | 1953          | 193693   |
| D  | 277m W   | Tanks            | 1941          | 179453   |
| D  | 280m W   | Tanks            | 1953 - 1954   | 193933   |
| D  | 285m W   | Tanks            | 1941 - 1954   | 185094   |
| D  | 287m W   | Tanks            | 1953          | 187367   |
| D  | 288m W   | Unspecified Tank | 1954          | 190576   |
| D  | 288m W   | Unspecified Tank | 1953          | 185016   |
| D  | 288m W   | Unspecified Tank | 1953          | 180087   |
| D  | 297m W   | Unspecified Tank | 1954          | 185070   |
| D  | 298m W   | Unspecified Tank | 1953          | 191427   |
| D  | 298m W   | Unspecified Tank | 1953          | 192202   |
| R  | 303m NW  | Gas Works        | 1901 - 1996   | 186318   |
| R  | 329m NW  | Gas Works        | 1996 - 1998   | 182556   |
| D  | 342m W   | Oil Tanks        | 1901 - 1920   | 186858   |
| R  | 345m NW  | Gas Works        | 1920 - 1993   | 179937   |
| R  | 346m NW  | Gas Works        | 1971 - 1989   | 185292   |
| R  | 346m NW  | Gas Works        | 1969          | 178726   |
| R  | 371m NW  | Unspecified Tank | 1941          | 172102   |
| G  | 380m SW  | Unspecified Tank | 1968          | 193454   |
| G  | 381m SW  | Unspecified Tank | 1941          | 192588   |
| G  | 381m SW  | Unspecified Tank | 1989          | 182888   |
| G  | 381m SW  | Unspecified Tank | 1986          | 181438   |
| G  | 381m SW  | Unspecified Tank | 1970          | 187265   |
| G  | 383m SW  | Unspecified Tank | 1953 - 1968   | 182182   |
| G  | 383m SW  | Unspecified Tank | 1953 - 1989   | 189278   |
| R  | 385m W   | Unspecified Tank | 1941          | 172103   |



| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| R  | 396m NW  | Gas Works        | 1880 - 1968   | 184667   |
| R  | 399m NW  | Unspecified Tank | 1953 - 1969   | 186211   |
| R  | 401m NW  | Tanks            | 1954          | 188832   |
| R  | 401m NW  | Tanks            | 1941 - 1969   | 181495   |
| R  | 405m NW  | Tanks            | 1968          | 187340   |
| R  | 405m NW  | Tanks            | 1969          | 184268   |
| R  | 408m NW  | Tanks            | 1968 - 1969   | 186899   |
| R  | 408m NW  | Tanks            | 1968          | 183252   |
| R  | 410m NW  | Tanks            | 1968 - 1969   | 186143   |
| R  | 415m NW  | Unspecified Tank | 1953 - 1969   | 182420   |
| R  | 415m NW  | Unspecified Tank | 1920          | 193136   |
| R  | 417m NW  | Tanks            | 1969          | 181767   |
| R  | 428m NW  | Unspecified Tank | 1968          | 172105   |
| R  | 428m NW  | Tanks            | 1969          | 168989   |
| R  | 429m NW  | Unspecified Tank | 1968          | 172106   |
| R  | 429m NW  | Tanks            | 1969          | 168990   |
| D  | 431m W   | Unspecified Tank | 1941          | 172113   |
| R  | 435m NW  | Tanks            | 1968 - 1969   | 191610   |
| R  | 436m NW  | Unspecified Tank | 1941          | 172101   |
| R  | 436m NW  | Tanks            | 1968          | 168998   |
| R  | 437m NW  | Tanks            | 1941          | 168991   |
| R  | 437m W   | Unspecified Tank | 1968          | 172111   |
| R  | 437m NW  | Unspecified Tank | 1953 - 1968   | 189740   |
| R  | 437m NW  | Tanks            | 1969          | 168997   |
| R  | 438m NW  | Unspecified Tank | 1954          | 191941   |
| R  | 438m W   | Tanks            | 1969          | 168996   |
| R  | 441m W   | Tanks            | 1941          | 169004   |
| R  | 443m NW  | Tanks            | 1968 - 1969   | 193816   |

| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| R  | 443m NW  | Tanks            | 1969          | 169000   |
| R  | 443m NW  | Unspecified Tank | 1968 - 1974   | 192735   |
| R  | 444m NW  | Unspecified Tank | 1968          | 172104   |
| R  | 444m NW  | Tanks            | 1969          | 169001   |
| R  | 444m NW  | Tanks            | 1969          | 168999   |
| 15 | 446m W   | Unspecified Tank | 1941          | 172154   |
| R  | 454m NW  | Tanks            | 1969 - 1974   | 192269   |
| R  | 455m W   | Unspecified Tank | 1976          | 172114   |
| R  | 457m NW  | Tanks            | 1968 - 1974   | 190465   |
| R  | 458m NW  | Tanks            | 1969 - 1974   | 181147   |
| R  | 459m NW  | Unspecified Tank | 1968          | 172110   |
| R  | 460m NW  | Unspecified Tank | 1968          | 172112   |
| R  | 460m NW  | Tanks            | 1969 - 1974   | 184600   |
| R  | 461m NW  | Tanks            | 1968          | 182800   |
| R  | 461m NW  | Tanks            | 1969 - 1974   | 180188   |
| R  | 462m NW  | Tanks            | 1969 - 1974   | 185660   |
| R  | 462m NW  | Tanks            | 1969 - 1974   | 180401   |
| G  | 462m S   | Unspecified Tank | 1968 - 1989   | 189690   |
| G  | 463m S   | Oil Tank         | 1970          | 177969   |
| R  | 464m NW  | Tanks            | 1968 - 1974   | 181809   |
| R  | 465m NW  | Tanks            | 1969 - 1974   | 187883   |
| R  | 469m NW  | Unspecified Tank | 1880          | 172107   |
| R  | 471m NW  | Unspecified Tank | 1968 - 1974   | 181534   |
| R  | 472m NW  | Unspecified Tank | 1880          | 172108   |
| R  | 475m NW  | Tanks            | 1974          | 168988   |
| G  | 479m S   | Unspecified Tank | 1953 - 1989   | 180687   |
| G  | 480m S   | Oil Tank         | 1970          | 177968   |
| G  | 480m S   | Unspecified Tank | 1942          | 185153   |

| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| R  | 480m NW  | Unspecified Tank | 1968 - 1974   | 184476   |
| G  | 483m S   | Unspecified Tank | 1953 - 1989   | 192124   |
| G  | 483m S   | Oil Tank         | 1970          | 177967   |
| G  | 483m S   | Tanks            | 1942          | 168992   |
| G  | 489m S   | Unspecified Tank | 1998 - 1999   | 193360   |
| R  | 489m W   | Unspecified Tank | 1953 - 1968   | 193659   |
| X  | 491m NE  | Unspecified Tank | 1977 - 1983   | 191986   |
| R  | 494m W   | Gasometer        | 1901 - 1920   | 181563   |
| R  | 494m W   | Unspecified Tank | 1941          | 190709   |
| R  | 495m W   | Unspecified Tank | 1953 - 1968   | 184490   |
| R  | 495m W   | Tanks            | 1954          | 188311   |
| R  | 495m W   | Tanks            | 1953 - 1963   | 192752   |
| G  | 495m S   | Tanks            | 1942          | 168995   |
| G  | 495m S   | Unspecified Tank | 1953 - 1989   | 193331   |
| G  | 496m S   | Oil Tank         | 1970          | 177966   |
| G  | 497m S   | Unspecified Tank | 1968 - 1989   | 178259   |

*This data is sourced from Ordnance Survey / Groundsure.*

### 1.3 Historical energy features

#### Records within 500m

35

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 14**

| ID | Location | Land use               | Dates present | Group ID |
|----|----------|------------------------|---------------|----------|
| A  | 71m N    | Electricity Substation | 1974          | 100914   |
| A  | 71m N    | Electricity Substation | 1983          | 100637   |



| ID | Location | Land use               | Dates present | Group ID |
|----|----------|------------------------|---------------|----------|
| A  | 71m N    | Electricity Substation | 1989          | 101302   |
| A  | 71m N    | Electricity Substation | 1983          | 102034   |
| E  | 165m SW  | Electricity Substation | 1968 - 1998   | 108386   |
| E  | 166m SW  | Electricity Substation | 1999          | 107293   |
| 4  | 215m S   | Electricity Substation | 1994 - 1998   | 112317   |
| D  | 218m W   | Electricity Substation | 1984          | 103106   |
| D  | 222m W   | Electricity Substation | 1968 - 1974   | 104467   |
| Q  | 285m NE  | Electricity Substation | 1983 - 1992   | 106792   |
| Q  | 285m NE  | Electricity Substation | 1974          | 111208   |
| D  | 295m W   | Electricity Substation | 1984          | 97031    |
| D  | 296m W   | Electricity Substation | 1998          | 97029    |
| R  | 303m NW  | Gas Works              | 1880 - 1998   | 107881   |
| D  | 307m W   | Electricity Substation | 1968 - 1974   | 106379   |
| S  | 308m NW  | Electricity Substation | 1969 - 1996   | 113627   |
| F  | 313m SW  | Electricity Substation | 1998 - 1999   | 104906   |
| S  | 319m NW  | Electricity Substation | 1968          | 107121   |
| O  | 331m S   | Electricity Substation | 1998 - 1999   | 108000   |
| V  | 332m NW  | Electricity Substation | 1969 - 1974   | 103881   |
| V  | 332m NW  | Electricity Substation | 1996          | 108738   |
| R  | 346m NW  | Gas Works              | 1971 - 1989   | 105755   |
| T  | 359m N   | Electricity Substation | 1988 - 1992   | 107378   |
| T  | 360m N   | Electricity Substation | 1972 - 1986   | 107680   |
| G  | 377m SW  | Electricity Substation | 1968 - 1989   | 112880   |
| 11 | 389m S   | Electricity Substation | 1995 - 1998   | 111790   |
| X  | 417m NE  | Electricity Substation | 1983 - 1999   | 109844   |
| X  | 420m NE  | Electricity Substation | 1977          | 109676   |
| R  | 449m W   | Electricity Substation | 1976          | 105798   |
| R  | 449m W   | Electricity Substation | 1989 - 1996   | 111424   |



| ID | Location | Land use               | Dates present | Group ID |
|----|----------|------------------------|---------------|----------|
| I  | 462m S   | Electricity Substation | 1968 - 1986   | 111181   |
| I  | 467m S   | Electricity Substation | 1993 - 1998   | 113405   |
| 18 | 493m N   | Electricity Substation | 1989 - 1996   | 112195   |
| R  | 494m W   | Gasometer              | 1901 - 1920   | 103980   |
| 19 | 498m NE  | Electricity Substation | 1977          | 97028    |

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.4 Historical petrol stations

### Records within 500m

3

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'.

Features are displayed on the Past land use map on **page 14**

| ID | Location | Land use        | Dates present | Group ID |
|----|----------|-----------------|---------------|----------|
| D  | 243m W   | Petrol Depot    | 1954          | 2111     |
| D  | 243m W   | Petrol Depot    | 1953          | 2169     |
| 7  | 276m NW  | Filling Station | 1974          | 1994     |

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.5 Historical garages

### Records within 500m

5

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 14**



| ID | Location | Land use                | Dates present | Group ID |
|----|----------|-------------------------|---------------|----------|
| U  | 316m N   | Car Bodies Repair Works | 1968          | 32962    |
| U  | 316m N   | Car Bodies Repair Works | 1969 - 1974   | 35724    |
| G  | 368m SW  | Car Dismantling Yard    | 1986 - 1989   | 35575    |
| G  | 435m SW  | Car Dismantling Yard    | 1968          | 34006    |
| G  | 478m SW  | Car Dismantling Yard    | 1970          | 34039    |

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.6 Historical military land

**Records within 500m**

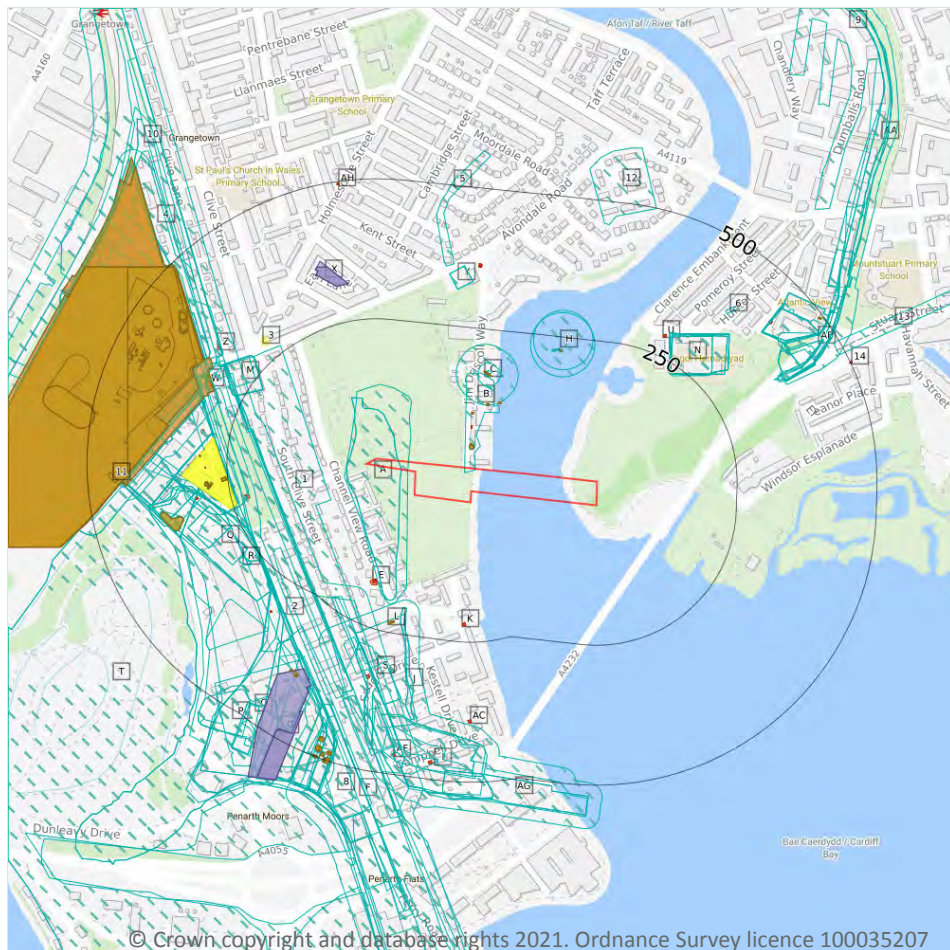
**0**

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.*



## 2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

### 2.1 Historical industrial land uses

Records within 500m

179

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 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 28**

| ID | Location | Land Use                    | Date | Group ID |
|----|----------|-----------------------------|------|----------|
| A  | On site  | Unspecified Ground Workings | 1915 | 1160134  |
| A  | On site  | Unspecified Pit             | 1938 | 1199663  |
| A  | On site  | Unspecified Pit             | 1938 | 1199663  |



| ID       | Location       | Land Use                          | Date        | Group ID       |
|----------|----------------|-----------------------------------|-------------|----------------|
| <b>B</b> | <b>On site</b> | <b>Sand and Gravel Yard</b>       | <b>1963</b> | <b>1157429</b> |
| B        | 34m N          | Unspecified Tank                  | 1974        | 1227102        |
| B        | 34m N          | Unspecified Tank                  | 1983        | 1227102        |
| B        | 34m N          | Unspecified Tank                  | 1963        | 1264416        |
| 1        | 82m W          | Unspecified Commercial/Industrial | 1938        | 1242045        |
| C        | 115m N         | Sewage Tank                       | 1922        | 1231277        |
| C        | 145m N         | Sewage Tank                       | 1915        | 1199263        |
| D        | 147m W         | Docks                             | 1922        | 1162147        |
| C        | 165m N         | Sewage Tank                       | 1889        | 1261565        |
| C        | 167m N         | Sewage Tank                       | 1938        | 1243702        |
| C        | 167m N         | Sewage Tank                       | 1938        | 1243702        |
| F        | 170m W         | Railway Sidings                   | 1879        | 1230520        |
| D        | 172m W         | Railway Sidings                   | 1922        | 1219297        |
| D        | 172m W         | Railway Sidings                   | 1938        | 1219297        |
| F        | 173m W         | Railway Sidings                   | 1974        | 1212587        |
| G        | 173m W         | Railway Sidings                   | 1983        | 1199275        |
| G        | 176m W         | Railway Sidings                   | 1963        | 1213452        |
| H        | 179m N         | Sewage Tank                       | 1922        | 1255232        |
| I        | 188m S         | Graving Dock                      | 1915        | 1254939        |
| 2        | 190m W         | Railway Sidings                   | 1995        | 1272342        |
| H        | 192m N         | Sewage Tank                       | 1915        | 1229319        |
| J        | 203m S         | Unspecified Ground Workings       | 1938        | 1202383        |
| J        | 203m S         | Unspecified Ground Workings       | 1938        | 1202383        |
| F        | 206m W         | Candle Works                      | 1889        | 1187480        |
| I        | 212m S         | Unspecified Commercial/Industrial | 1947        | 1213684        |
| D        | 217m W         | Rope Works                        | 1915        | 1223420        |
| D        | 220m W         | Rope Works                        | 1922        | 1264275        |
| H        | 222m N         | Sewage Tank                       | 1938        | 1249485        |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| H  | 222m N   | Sewage Tank                       | 1938 | 1219084  |
| H  | 223m N   | Sewage Tank                       | 1889 | 1191876  |
| I  | 228m SW  | Railway Sidings                   | 1889 | 1265324  |
| M  | 228m NW  | Unspecified Commercial/Industrial | 1974 | 1201752  |
| M  | 228m NW  | Unspecified Commercial/Industrial | 1983 | 1201752  |
| M  | 228m NW  | Unspecified Commercial/Industrial | 1995 | 1201752  |
| M  | 228m NW  | Unspecified Works                 | 1963 | 1178830  |
| N  | 232m NE  | Hospital                          | 1922 | 1212464  |
| N  | 233m NE  | Hospital                          | 1974 | 1261177  |
| N  | 233m NE  | Hospital                          | 1983 | 1261177  |
| N  | 233m NE  | Hospital                          | 1995 | 1261177  |
| N  | 233m NE  | Hospital                          | 1963 | 1196205  |
| N  | 234m NE  | Hospital                          | 1947 | 1193588  |
| N  | 234m NE  | Hospital                          | 1915 | 1233078  |
| N  | 235m NE  | Hospital                          | 1938 | 1212464  |
| D  | 238m W   | Unspecified Depot                 | 1963 | 1171238  |
| O  | 239m W   | Unspecified Commercial/Industrial | 1947 | 1196355  |
| O  | 239m W   | Railway Sidings                   | 1947 | 1254460  |
| O  | 241m SW  | Fish Meal Factory                 | 1938 | 1229857  |
| D  | 242m W   | Industrial Estate                 | 1995 | 1164465  |
| D  | 242m W   | Rope Works                        | 1938 | 1191097  |
| M  | 248m NW  | Tramway Depot                     | 1889 | 1179649  |
| P  | 256m SW  | Old Coal Pits                     | 1915 | 1183615  |
| P  | 256m SW  | Old Clay Pits                     | 1922 | 1256874  |
| Q  | 263m SW  | Unspecified Works                 | 1963 | 1178831  |
| Q  | 268m SW  | Unspecified Depot                 | 1974 | 1248373  |
| Q  | 268m SW  | Unspecified Depot                 | 1983 | 1248373  |
| R  | 271m SW  | Unspecified Heap                  | 1938 | 1260942  |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| R  | 271m SW  | Unspecified Heap                  | 1938 | 1260942  |
| S  | 276m SW  | Transport Depot                   | 1983 | 1202486  |
| T  | 277m SW  | Refuse Heap                       | 1983 | 1178020  |
| T  | 277m SW  | Refuse Tips                       | 1995 | 1157952  |
| D  | 277m W   | Unspecified Tanks                 | 1947 | 1168552  |
| D  | 281m W   | Unspecified Works                 | 1974 | 1249037  |
| D  | 281m W   | Unspecified Works                 | 1983 | 1249037  |
| D  | 281m W   | Unspecified Works                 | 1995 | 1249037  |
| D  | 281m W   | Unspecified Works                 | 1963 | 1252128  |
| I  | 282m S   | Railway Sidings                   | 1947 | 1238163  |
| D  | 289m W   | Rope Walk                         | 1915 | 1262744  |
| I  | 290m S   | Railway Sidings                   | 1915 | 1265324  |
| D  | 301m W   | Scrap Metal Yard                  | 1974 | 1183877  |
| S  | 302m S   | Transport Depot                   | 1974 | 1202486  |
| D  | 308m W   | Unspecified Ground Workings       | 1938 | 1194284  |
| D  | 308m W   | Unspecified Ground Workings       | 1938 | 1194284  |
| D  | 309m NW  | Unspecified Commercial/Industrial | 1889 | 1244984  |
| D  | 313m W   | Rope Walk                         | 1938 | 1268776  |
| Y  | 316m N   | Nursery                           | 1974 | 1215703  |
| Y  | 316m N   | Nursery                           | 1963 | 1196303  |
| V  | 323m NW  | Gas Works                         | 1922 | 1251341  |
| V  | 323m NW  | Railway Sidings                   | 1915 | 1253080  |
| V  | 328m NW  | Unspecified Commercial/Industrial | 1947 | 1248008  |
| V  | 328m NW  | Railway Sidings                   | 1947 | 1253080  |
| V  | 332m NW  | Railway Sidings                   | 1963 | 1253080  |
| V  | 332m NW  | Unspecified Works                 | 1963 | 1178838  |
| 4  | 338m NW  | Railway Sidings                   | 1947 | 1211211  |
| G  | 340m SW  | Unspecified Works                 | 1974 | 1193427  |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| G  | 340m SW  | Unspecified Works                 | 1983 | 1193427  |
| V  | 340m NW  | Iron Works                        | 1879 | 1174663  |
| O  | 340m SW  | Old Clay Pits                     | 1938 | 1202721  |
| D  | 341m W   | Oil Tanks                         | 1922 | 1259325  |
| D  | 342m W   | Unspecified Tanks                 | 1938 | 1168551  |
| V  | 343m NW  | Gas Works                         | 1889 | 1257469  |
| V  | 343m NW  | Railway Sidings                   | 1889 | 1204576  |
| D  | 343m W   | Oil Tank                          | 1915 | 1174261  |
| D  | 344m W   | Unspecified Covered Tanks         | 1889 | 1177904  |
| V  | 345m NW  | Unspecified Commercial/Industrial | 1938 | 1248008  |
| V  | 345m NW  | Gas Works                         | 1915 | 1248436  |
| D  | 348m W   | Wagon Works                       | 1963 | 1177914  |
| G  | 350m SW  | Brick Works                       | 1879 | 1171525  |
| V  | 351m NW  | Gas Works                         | 1974 | 1240611  |
| V  | 351m NW  | Gas Works                         | 1983 | 1195644  |
| V  | 351m NW  | Gas Works                         | 1995 | 1195644  |
| D  | 354m W   | Oil Tanks                         | 1915 | 1259325  |
| 5  | 355m N   | Unspecified Heap                  | 1915 | 1162362  |
| D  | 355m W   | Unspecified Covered Tanks         | 1889 | 1177905  |
| D  | 364m W   | Unspecified Covered Tanks         | 1889 | 1177901  |
| AA | 366m NE  | Disused Canal                     | 1974 | 1229182  |
| AA | 366m NE  | Disused Canal                     | 1983 | 1229182  |
| G  | 370m SW  | Brick Kilns                       | 1879 | 1177761  |
| AA | 371m NE  | Railway Sidings                   | 1922 | 1192148  |
| D  | 372m W   | Unspecified Covered Tanks         | 1889 | 1177902  |
| AB | 377m NE  | Railway Sidings                   | 1938 | 1210460  |
| AB | 377m NE  | Corporation Depot                 | 1938 | 1250875  |
| AB | 378m NE  | Railway Sidings                   | 1915 | 1212290  |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| G  | 378m SW  | Unspecified Wharf                 | 1963 | 1259232  |
| 6  | 379m NE  | Fever Hospital                    | 1879 | 1166236  |
| AA | 379m NE  | Disused Canal                     | 1963 | 1253011  |
| G  | 383m SW  | Unspecified Wharf                 | 1983 | 1261166  |
| AB | 383m NE  | Railway Sidings                   | 1947 | 1251466  |
| AB | 383m NE  | Unspecified Commercial/Industrial | 1947 | 1268169  |
| I  | 383m S   | Unspecified Depot                 | 1963 | 1171239  |
| G  | 388m SW  | Unspecified Wharf                 | 1974 | 1238716  |
| I  | 393m S   | Graving Dock                      | 1938 | 1222836  |
| I  | 393m S   | Graving Dock                      | 1938 | 1222836  |
| 7  | 396m S   | Graving Dock                      | 1922 | 1265493  |
| AB | 398m NE  | Unspecified Factory               | 1974 | 1205216  |
| AB | 398m NE  | Unspecified Commercial/Industrial | 1983 | 1196937  |
| AB | 398m NE  | Unspecified Factory               | 1963 | 1241407  |
| G  | 398m SW  | Brick Kilns                       | 1879 | 1177757  |
| V  | 398m NW  | Unspecified Tanks                 | 1947 | 1257280  |
| V  | 401m NW  | Gasometers                        | 1974 | 1164411  |
| V  | 402m NW  | Unspecified Tanks                 | 1963 | 1225304  |
| V  | 402m NW  | Gas Works                         | 1995 | 1252303  |
| 8  | 403m S   | Railway Sidings                   | 1915 | 1189926  |
| G  | 403m S   | Unspecified Commercial/Industrial | 1938 | 1206470  |
| I  | 405m S   | Unspecified Commercial/Industrial | 1889 | 1266393  |
| 9  | 406m NE  | Railway Sidings                   | 1963 | 1190119  |
| G  | 409m SW  | Unspecified Wharf                 | 1947 | 1260353  |
| G  | 410m SW  | Unspecified Commercial/Industrial | 1983 | 1207273  |
| V  | 411m NW  | Unspecified Tanks                 | 1974 | 1168547  |
| AB | 412m NE  | Corporation Depot                 | 1922 | 1202934  |
| V  | 414m NW  | Unspecified Tanks                 | 1947 | 1252471  |



| ID | Location | Land Use                  | Date | Group ID |
|----|----------|---------------------------|------|----------|
| AB | 414m NE  | Corporation Depot         | 1915 | 1202934  |
| V  | 414m NW  | Unspecified Tank          | 1938 | 1196209  |
| V  | 415m NW  | Unspecified Tank          | 1915 | 1259920  |
| V  | 415m NW  | Unspecified Tank          | 1922 | 1259920  |
| AD | 419m S   | Railway Sidings           | 1947 | 1271073  |
| D  | 431m W   | Unspecified Tank          | 1947 | 1175606  |
| G  | 435m S   | Unspecified Wharf         | 1889 | 1222543  |
| 10 | 439m NW  | Railway Sidings           | 1889 | 1241803  |
| AD | 440m S   | Railway Sidings           | 1889 | 1265323  |
| V  | 442m NW  | Gasometers                | 1974 | 1164412  |
| V  | 442m W   | Unspecified Tanks         | 1947 | 1168548  |
| V  | 443m NW  | Gasometer                 | 1974 | 1165566  |
| AE | 444m SW  | Unspecified Pit           | 1889 | 1186159  |
| G  | 453m S   | Unspecified Tanks         | 1974 | 1212882  |
| G  | 453m S   | Unspecified Tanks         | 1983 | 1212882  |
| 12 | 459m N   | Unspecified Works         | 1995 | 1178827  |
| AE | 460m SW  | Old Clay Pits             | 1938 | 1253964  |
| V  | 461m NW  | Gasometer                 | 1974 | 1165567  |
| AE | 465m SW  | Unspecified Works         | 1974 | 1191231  |
| AE | 465m SW  | Unspecified Works         | 1983 | 1191231  |
| AE | 469m SW  | Unspecified Works         | 1963 | 1216392  |
| V  | 476m W   | Unspecified Tanks         | 1947 | 1168549  |
| G  | 480m S   | Unspecified Tank          | 1947 | 1175603  |
| G  | 480m S   | Unspecified Tanks         | 1963 | 1266368  |
| AG | 481m S   | Slipways and Graving Dock | 1947 | 1261486  |
| AG | 481m S   | Slipways and Graving Dock | 1889 | 1226997  |
| 13 | 488m NE  | Tunnel                    | 1995 | 1174090  |
| V  | 491m W   | Gasometer                 | 1915 | 1223476  |



| ID | Location | Land Use          | Date | Group ID |
|----|----------|-------------------|------|----------|
| V  | 491m W   | Unspecified Tank  | 1947 | 1175607  |
| V  | 491m W   | Gasometer         | 1889 | 1223476  |
| V  | 491m W   | Gasometers        | 1974 | 1224274  |
| V  | 491m W   | Unspecified Tanks | 1938 | 1255406  |
| V  | 494m W   | Gasometer         | 1922 | 1231411  |
| V  | 495m W   | Gasometers        | 1983 | 1224274  |
| V  | 495m W   | Unspecified Tanks | 1963 | 1211528  |
| G  | 498m S   | Unspecified Wharf | 1922 | 1265275  |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.2 Historical tanks

### Records within 500m

**191**

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'.

Features are displayed on the Past land use - un-grouped map on **page 28**

| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| B  | 34m N    | Unspecified Tank | 1953 | 192864   |
| B  | 34m N    | Unspecified Tank | 1974 | 192864   |
| B  | 41m N    | Unspecified Tank | 1983 | 185408   |
| B  | 41m N    | Unspecified Tank | 1983 | 185408   |
| B  | 41m N    | Unspecified Tank | 1989 | 185408   |
| B  | 41m N    | Unspecified Tank | 1951 | 185408   |
| B  | 97m N    | Unspecified Tank | 1953 | 181373   |
| B  | 97m N    | Unspecified Tank | 1951 | 181373   |
| B  | 114m N   | Unspecified Tank | 1953 | 185087   |
| B  | 114m N   | Unspecified Tank | 1951 | 185087   |
| B  | 120m N   | Unspecified Tank | 1953 | 193389   |
| B  | 120m N   | Unspecified Tank | 1951 | 193389   |



| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| C  | 166m N   | Sewage Tank      | 1901 | 189830   |
| C  | 168m N   | Sewage Tank      | 1920 | 181306   |
| H  | 223m N   | Sewage Tank      | 1901 | 170870   |
| H  | 225m N   | Sewage Tank      | 1920 | 170869   |
| L  | 227m S   | Unspecified Tank | 1986 | 180477   |
| L  | 228m S   | Unspecified Tank | 1953 | 180477   |
| L  | 228m S   | Unspecified Tank | 1968 | 180477   |
| L  | 228m S   | Unspecified Tank | 1953 | 180477   |
| L  | 228m S   | Unspecified Tank | 1970 | 180477   |
| D  | 252m W   | Tanks            | 1954 | 187046   |
| D  | 252m W   | Tanks            | 1953 | 193693   |
| D  | 252m W   | Tanks            | 1953 | 187046   |
| D  | 277m W   | Tanks            | 1941 | 179453   |
| D  | 280m W   | Tanks            | 1953 | 193933   |
| D  | 280m W   | Tanks            | 1954 | 193933   |
| D  | 280m W   | Tanks            | 1953 | 193933   |
| D  | 285m W   | Tanks            | 1941 | 185094   |
| D  | 286m W   | Tanks            | 1954 | 185094   |
| D  | 286m W   | Tanks            | 1953 | 185094   |
| D  | 287m W   | Tanks            | 1953 | 187367   |
| D  | 288m W   | Unspecified Tank | 1954 | 190576   |
| D  | 288m W   | Unspecified Tank | 1953 | 185016   |
| D  | 288m W   | Unspecified Tank | 1953 | 180087   |
| D  | 297m W   | Unspecified Tank | 1954 | 185070   |
| D  | 298m W   | Unspecified Tank | 1953 | 191427   |
| D  | 298m W   | Unspecified Tank | 1953 | 192202   |
| V  | 303m NW  | Gas Works        | 1901 | 186318   |
| V  | 329m NW  | Gas Works        | 1996 | 182556   |



| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| D  | 342m W   | Oil Tanks        | 1901 | 186858   |
| D  | 342m W   | Oil Tanks        | 1920 | 186858   |
| V  | 345m NW  | Gas Works        | 1920 | 179937   |
| V  | 346m NW  | Gas Works        | 1974 | 185292   |
| V  | 346m NW  | Gas Works        | 1969 | 178726   |
| V  | 348m NW  | Gas Works        | 1998 | 182556   |
| V  | 350m NW  | Gas Works        | 1984 | 185292   |
| V  | 371m NW  | Unspecified Tank | 1941 | 172102   |
| G  | 380m SW  | Unspecified Tank | 1968 | 193454   |
| G  | 381m SW  | Unspecified Tank | 1941 | 192588   |
| G  | 381m SW  | Unspecified Tank | 1986 | 181438   |
| G  | 381m SW  | Unspecified Tank | 1989 | 182888   |
| G  | 381m SW  | Unspecified Tank | 1970 | 187265   |
| G  | 383m SW  | Unspecified Tank | 1953 | 182182   |
| G  | 383m SW  | Unspecified Tank | 1968 | 182182   |
| G  | 383m SW  | Unspecified Tank | 1953 | 189278   |
| G  | 383m SW  | Unspecified Tank | 1970 | 189278   |
| G  | 384m SW  | Unspecified Tank | 1986 | 189278   |
| G  | 384m SW  | Unspecified Tank | 1989 | 189278   |
| V  | 385m W   | Unspecified Tank | 1941 | 172103   |
| V  | 396m NW  | Gas Works        | 1968 | 184667   |
| V  | 399m NW  | Unspecified Tank | 1969 | 186211   |
| V  | 399m NW  | Unspecified Tank | 1953 | 186211   |
| V  | 400m NW  | Unspecified Tank | 1953 | 186211   |
| V  | 400m NW  | Unspecified Tank | 1968 | 186211   |
| V  | 401m NW  | Tanks            | 1954 | 188832   |
| V  | 401m NW  | Tanks            | 1941 | 181495   |
| V  | 405m NW  | Tanks            | 1968 | 187340   |

| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| V  | 405m NW  | Tanks            | 1969 | 184268   |
| V  | 408m NW  | Tanks            | 1968 | 186899   |
| V  | 408m NW  | Tanks            | 1968 | 183252   |
| V  | 408m NW  | Tanks            | 1969 | 181495   |
| V  | 408m NW  | Tanks            | 1969 | 186899   |
| V  | 410m NW  | Tanks            | 1968 | 186143   |
| V  | 411m NW  | Tanks            | 1969 | 186143   |
| V  | 415m NW  | Unspecified Tank | 1969 | 182420   |
| V  | 415m NW  | Unspecified Tank | 1953 | 182420   |
| V  | 415m NW  | Unspecified Tank | 1920 | 193136   |
| V  | 416m NW  | Unspecified Tank | 1953 | 182420   |
| V  | 416m NW  | Unspecified Tank | 1968 | 182420   |
| V  | 417m NW  | Tanks            | 1969 | 181767   |
| V  | 427m W   | Gas Works        | 1993 | 179937   |
| V  | 427m W   | Gas Works        | 1996 | 186318   |
| V  | 427m W   | Gas Works        | 1976 | 185292   |
| V  | 428m NW  | Unspecified Tank | 1968 | 172105   |
| V  | 428m W   | Gas Works        | 1989 | 185292   |
| V  | 428m NW  | Tanks            | 1969 | 168989   |
| V  | 429m NW  | Unspecified Tank | 1968 | 172106   |
| V  | 429m NW  | Tanks            | 1969 | 168990   |
| D  | 431m W   | Unspecified Tank | 1941 | 172113   |
| V  | 435m NW  | Tanks            | 1968 | 191610   |
| V  | 436m NW  | Tanks            | 1969 | 191610   |
| V  | 436m NW  | Unspecified Tank | 1941 | 172101   |
| V  | 436m NW  | Tanks            | 1968 | 168998   |
| V  | 437m NW  | Tanks            | 1941 | 168991   |
| V  | 437m NW  | Unspecified Tank | 1953 | 189740   |

| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| V  | 437m NW  | Unspecified Tank | 1968 | 189740   |
| V  | 437m W   | Unspecified Tank | 1968 | 172111   |
| V  | 437m NW  | Tanks            | 1969 | 168997   |
| V  | 437m NW  | Unspecified Tank | 1953 | 189740   |
| V  | 438m NW  | Unspecified Tank | 1954 | 191941   |
| V  | 438m W   | Tanks            | 1969 | 168996   |
| V  | 441m W   | Tanks            | 1941 | 169004   |
| V  | 443m NW  | Tanks            | 1968 | 193816   |
| V  | 443m NW  | Tanks            | 1969 | 193816   |
| V  | 443m NW  | Tanks            | 1969 | 169000   |
| V  | 443m NW  | Unspecified Tank | 1968 | 192735   |
| V  | 444m NW  | Unspecified Tank | 1974 | 192735   |
| V  | 444m NW  | Unspecified Tank | 1969 | 192735   |
| V  | 444m NW  | Unspecified Tank | 1968 | 172104   |
| V  | 444m NW  | Tanks            | 1969 | 169001   |
| V  | 444m NW  | Tanks            | 1969 | 168999   |
| 11 | 446m W   | Unspecified Tank | 1941 | 172154   |
| V  | 454m NW  | Tanks            | 1974 | 192269   |
| V  | 454m NW  | Tanks            | 1969 | 192269   |
| V  | 455m W   | Unspecified Tank | 1976 | 172114   |
| V  | 457m NW  | Tanks            | 1968 | 190465   |
| V  | 457m NW  | Tanks            | 1974 | 190465   |
| V  | 457m NW  | Tanks            | 1969 | 190465   |
| V  | 458m NW  | Tanks            | 1974 | 181147   |
| V  | 458m NW  | Tanks            | 1969 | 181147   |
| V  | 459m NW  | Unspecified Tank | 1968 | 172110   |
| V  | 460m NW  | Tanks            | 1974 | 184600   |
| V  | 460m NW  | Tanks            | 1969 | 184600   |



| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| V  | 460m NW  | Unspecified Tank | 1968 | 172112   |
| V  | 461m NW  | Tanks            | 1968 | 182800   |
| V  | 461m NW  | Tanks            | 1974 | 180188   |
| V  | 461m NW  | Tanks            | 1969 | 180188   |
| V  | 462m NW  | Tanks            | 1974 | 185660   |
| V  | 462m NW  | Tanks            | 1969 | 185660   |
| V  | 462m NW  | Tanks            | 1974 | 180401   |
| V  | 462m NW  | Tanks            | 1969 | 180401   |
| G  | 462m S   | Unspecified Tank | 1968 | 189690   |
| G  | 463m S   | Unspecified Tank | 1986 | 189690   |
| G  | 463m S   | Unspecified Tank | 1989 | 189690   |
| G  | 463m S   | Oil Tank         | 1970 | 177969   |
| V  | 464m NW  | Tanks            | 1968 | 181809   |
| V  | 465m NW  | Tanks            | 1974 | 181809   |
| V  | 465m NW  | Tanks            | 1969 | 181809   |
| V  | 465m NW  | Tanks            | 1974 | 187883   |
| V  | 465m NW  | Tanks            | 1969 | 187883   |
| V  | 469m NW  | Unspecified Tank | 1880 | 172107   |
| V  | 471m NW  | Unspecified Tank | 1974 | 181534   |
| V  | 471m NW  | Unspecified Tank | 1969 | 181534   |
| V  | 471m NW  | Unspecified Tank | 1968 | 181534   |
| V  | 472m NW  | Unspecified Tank | 1880 | 172108   |
| V  | 475m NW  | Tanks            | 1974 | 168988   |
| G  | 479m S   | Unspecified Tank | 1986 | 180687   |
| G  | 479m S   | Unspecified Tank | 1989 | 180687   |
| G  | 480m S   | Unspecified Tank | 1953 | 180687   |
| G  | 480m S   | Oil Tank         | 1970 | 177968   |
| G  | 480m S   | Unspecified Tank | 1953 | 180687   |

| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| G  | 480m S   | Unspecified Tank | 1968 | 180687   |
| G  | 480m S   | Unspecified Tank | 1942 | 185153   |
| V  | 480m NW  | Unspecified Tank | 1968 | 184476   |
| V  | 481m NW  | Unspecified Tank | 1974 | 184476   |
| V  | 481m NW  | Unspecified Tank | 1969 | 184476   |
| G  | 483m S   | Unspecified Tank | 1986 | 192124   |
| G  | 483m S   | Unspecified Tank | 1989 | 192124   |
| G  | 483m S   | Unspecified Tank | 1953 | 192124   |
| G  | 483m S   | Unspecified Tank | 1968 | 192124   |
| G  | 483m S   | Unspecified Tank | 1953 | 192124   |
| G  | 483m S   | Oil Tank         | 1970 | 177967   |
| G  | 483m S   | Tanks            | 1942 | 168992   |
| G  | 489m S   | Unspecified Tank | 1998 | 193360   |
| G  | 489m S   | Unspecified Tank | 1999 | 193360   |
| V  | 489m W   | Unspecified Tank | 1968 | 193659   |
| V  | 489m W   | Unspecified Tank | 1954 | 193659   |
| V  | 489m W   | Unspecified Tank | 1953 | 193659   |
| V  | 489m W   | Unspecified Tank | 1963 | 193659   |
| AB | 491m NE  | Unspecified Tank | 1977 | 191986   |
| AB | 491m NE  | Unspecified Tank | 1983 | 191986   |
| V  | 494m W   | Gasometer        | 1901 | 181563   |
| V  | 494m W   | Gasometer        | 1920 | 181563   |
| V  | 494m W   | Unspecified Tank | 1941 | 190709   |
| V  | 495m W   | Unspecified Tank | 1953 | 184490   |
| V  | 495m W   | Unspecified Tank | 1968 | 184490   |
| V  | 495m W   | Tanks            | 1954 | 188311   |
| V  | 495m W   | Tanks            | 1953 | 192752   |
| V  | 495m W   | Tanks            | 1963 | 192752   |

| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| G  | 495m S   | Tanks            | 1942 | 168995   |
| G  | 495m S   | Unspecified Tank | 1986 | 193331   |
| G  | 495m S   | Unspecified Tank | 1989 | 193331   |
| G  | 496m S   | Unspecified Tank | 1953 | 193331   |
| G  | 496m S   | Unspecified Tank | 1968 | 193331   |
| G  | 496m S   | Unspecified Tank | 1953 | 193331   |
| G  | 496m S   | Oil Tank         | 1970 | 177966   |
| G  | 497m S   | Unspecified Tank | 1968 | 178259   |
| G  | 498m S   | Unspecified Tank | 1986 | 178259   |
| G  | 498m S   | Unspecified Tank | 1989 | 178259   |
| G  | 498m S   | Unspecified Tank | 1970 | 178259   |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.3 Historical energy features

### Records within 500m

85

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 28**

| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| B  | 71m N    | Electricity Substation | 1974 | 100914   |
| B  | 71m N    | Electricity Substation | 1983 | 102034   |
| B  | 71m N    | Electricity Substation | 1983 | 100637   |
| B  | 71m N    | Electricity Substation | 1989 | 101302   |
| E  | 165m SW  | Electricity Substation | 1968 | 108386   |
| E  | 166m SW  | Electricity Substation | 1998 | 108386   |
| E  | 166m SW  | Electricity Substation | 1999 | 107293   |
| E  | 166m SW  | Electricity Substation | 1970 | 108386   |
| E  | 167m SW  | Electricity Substation | 1986 | 108386   |



| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| E  | 167m SW  | Electricity Substation | 1989 | 108386   |
| K  | 215m S   | Electricity Substation | 1994 | 112317   |
| K  | 215m S   | Electricity Substation | 1994 | 112317   |
| K  | 215m S   | Electricity Substation | 1995 | 112317   |
| K  | 215m S   | Electricity Substation | 1998 | 112317   |
| D  | 218m W   | Electricity Substation | 1984 | 103106   |
| D  | 222m W   | Electricity Substation | 1974 | 104467   |
| D  | 222m W   | Electricity Substation | 1969 | 104467   |
| D  | 223m W   | Electricity Substation | 1968 | 104467   |
| U  | 285m NE  | Electricity Substation | 1992 | 106792   |
| U  | 285m NE  | Electricity Substation | 1974 | 111208   |
| U  | 285m NE  | Electricity Substation | 1983 | 106792   |
| U  | 285m NE  | Electricity Substation | 1983 | 106792   |
| U  | 285m NE  | Electricity Substation | 1989 | 106792   |
| D  | 295m W   | Electricity Substation | 1984 | 97031    |
| D  | 296m W   | Electricity Substation | 1998 | 97029    |
| V  | 303m NW  | Gas Works              | 1901 | 107881   |
| D  | 307m W   | Electricity Substation | 1968 | 106379   |
| D  | 308m W   | Electricity Substation | 1974 | 106379   |
| D  | 308m W   | Electricity Substation | 1969 | 106379   |
| W  | 308m NW  | Electricity Substation | 1974 | 113627   |
| W  | 308m NW  | Electricity Substation | 1969 | 113627   |
| F  | 313m SW  | Electricity Substation | 1998 | 104906   |
| F  | 313m SW  | Electricity Substation | 1999 | 104906   |
| W  | 318m NW  | Electricity Substation | 1996 | 113627   |
| W  | 319m NW  | Electricity Substation | 1968 | 107121   |
| V  | 329m NW  | Gas Works              | 1996 | 107881   |
| S  | 331m S   | Electricity Substation | 1998 | 108000   |

| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| S  | 331m S   | Electricity Substation | 1999 | 108000   |
| Z  | 332m NW  | Electricity Substation | 1974 | 103881   |
| Z  | 332m NW  | Electricity Substation | 1969 | 103881   |
| Z  | 332m NW  | Electricity Substation | 1996 | 108738   |
| V  | 345m NW  | Gas Works              | 1920 | 107881   |
| V  | 346m NW  | Gas Works              | 1974 | 105755   |
| V  | 346m NW  | Gas Works              | 1969 | 107881   |
| V  | 348m NW  | Gas Works              | 1998 | 107881   |
| V  | 350m NW  | Gas Works              | 1984 | 105755   |
| Y  | 359m N   | Electricity Substation | 1992 | 107378   |
| Y  | 360m N   | Electricity Substation | 1972 | 107680   |
| Y  | 360m N   | Electricity Substation | 1985 | 107680   |
| Y  | 360m N   | Electricity Substation | 1986 | 107680   |
| Y  | 360m N   | Electricity Substation | 1988 | 107378   |
| G  | 377m SW  | Electricity Substation | 1968 | 112880   |
| G  | 379m SW  | Electricity Substation | 1986 | 112880   |
| G  | 379m SW  | Electricity Substation | 1989 | 112880   |
| G  | 379m SW  | Electricity Substation | 1970 | 112880   |
| AC | 389m S   | Electricity Substation | 1995 | 111790   |
| AC | 389m S   | Electricity Substation | 1998 | 111790   |
| V  | 396m NW  | Gas Works              | 1968 | 107881   |
| AB | 417m NE  | Electricity Substation | 1995 | 109844   |
| AB | 417m NE  | Electricity Substation | 1994 | 109844   |
| AB | 417m NE  | Electricity Substation | 1999 | 109844   |
| AB | 419m NE  | Electricity Substation | 1983 | 109844   |
| AB | 419m NE  | Electricity Substation | 1986 | 109844   |
| AB | 420m NE  | Electricity Substation | 1977 | 109676   |
| V  | 427m W   | Gas Works              | 1993 | 107881   |

| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| V  | 427m W   | Gas Works              | 1996 | 107881   |
| V  | 427m W   | Gas Works              | 1976 | 105755   |
| V  | 428m W   | Gas Works              | 1989 | 105755   |
| V  | 449m W   | Electricity Substation | 1976 | 105798   |
| V  | 449m W   | Electricity Substation | 1993 | 111424   |
| V  | 449m W   | Electricity Substation | 1996 | 111424   |
| V  | 449m W   | Electricity Substation | 1989 | 111424   |
| AF | 462m S   | Electricity Substation | 1986 | 111181   |
| AF | 463m S   | Electricity Substation | 1968 | 111181   |
| AF | 463m S   | Electricity Substation | 1970 | 111181   |
| I  | 467m S   | Electricity Substation | 1994 | 113405   |
| I  | 467m S   | Electricity Substation | 1994 | 113405   |
| I  | 467m S   | Electricity Substation | 1995 | 113405   |
| I  | 467m S   | Electricity Substation | 1998 | 113405   |
| I  | 467m S   | Electricity Substation | 1993 | 113405   |
| AH | 493m N   | Electricity Substation | 1996 | 112195   |
| AH | 494m N   | Electricity Substation | 1989 | 112195   |
| V  | 494m W   | Gasometer              | 1901 | 103980   |
| V  | 494m W   | Gasometer              | 1920 | 103980   |
| 14 | 498m NE  | Electricity Substation | 1977 | 97028    |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.4 Historical petrol stations

### Records within 500m

4

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'.

Features are displayed on the Past land use - un-grouped map on **page 28**



| ID | Location | Land Use        | Date | Group ID |
|----|----------|-----------------|------|----------|
| D  | 243m W   | Petrol Depot    | 1954 | 2111     |
| D  | 243m W   | Petrol Depot    | 1953 | 2169     |
| D  | 243m W   | Petrol Depot    | 1953 | 2169     |
| 3  | 276m NW  | Filling Station | 1974 | 1994     |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.5 Historical garages

### Records within 500m

7

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'.

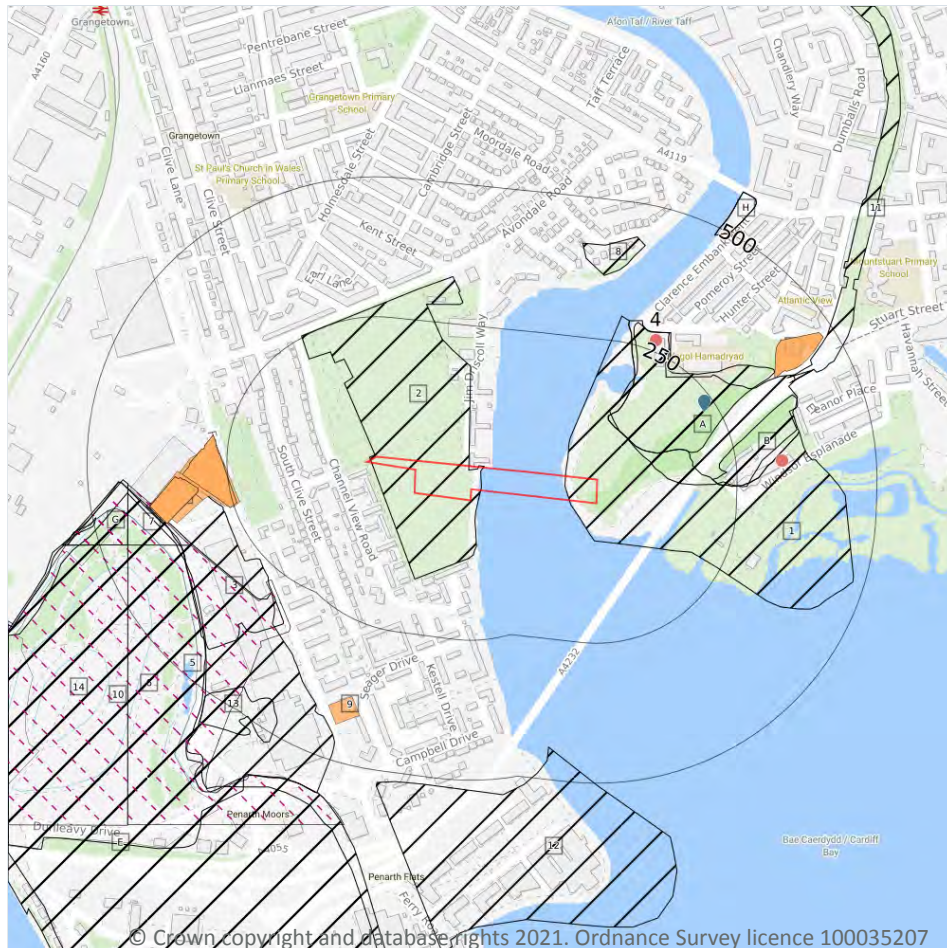
Features are displayed on the Past land use - un-grouped map on **page 28**

| ID | Location | Land Use                | Date | Group ID |
|----|----------|-------------------------|------|----------|
| X  | 316m N   | Car Bodies Repair Works | 1968 | 32962    |
| X  | 316m N   | Car Bodies Repair Works | 1974 | 35724    |
| X  | 316m N   | Car Bodies Repair Works | 1969 | 35724    |
| G  | 368m SW  | Car Dismantling Yard    | 1989 | 35575    |
| G  | 368m SW  | Car Dismantling Yard    | 1986 | 35575    |
| G  | 435m SW  | Car Dismantling Yard    | 1968 | 34006    |
| G  | 478m SW  | Car Dismantling Yard    | 1970 | 34039    |

*This data is sourced from Ordnance Survey / Groundsure.*



## 3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Active or recent landfill
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

### 3.1 Active or recent landfill

#### Records within 500m

1

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 47**

| ID | Location | Details                                                                                                                            |                                                                                                                                                                                              |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10 | 382m SW  | Operator: The County Council Of The City & County Of Cardiff<br>Site Address: Ferry Road, Grangetown, Cardiff, Glamorgan, CF11 0JL | WML Number: 30179<br>EPR Reference: CAR002<br>Landfill type: A2 : Other Landfill Site taking Special Waste<br>Status: Closure<br>IPPC Reference: -<br>EPR Number: EAEPR\EA\EPR\BP3795FD/A001 |



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

### 3.2 Historical landfill (BGS records)

**Records within 500m**

**0**

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

*This data is sourced from the British Geological Survey.*

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

**Records within 500m**

**8**

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

Features are displayed on the Waste and landfill map on **page 47**

| ID | Location | Site address | Source       | Data type |
|----|----------|--------------|--------------|-----------|
| 5  | 272m SW  | Refuse Tip   | 1986 mapping | Polygon   |
| 7  | 348m SW  | Refuse Tip   | 1996 mapping | Polygon   |
| G  | 429m W   | Refuse Tip   | 1993 mapping | Polygon   |
| G  | 429m W   | Refuse Tip   | 1996 mapping | Polygon   |
| G  | 437m W   | Refuse Tip   | 1975 mapping | Polygon   |
| 14 | 452m W   | Refuse Tip   | 1977 mapping | Polygon   |
| G  | 494m W   | Refuse Tip   | 1962 mapping | Polygon   |
| G  | 494m W   | 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**

**15**

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 47**

| ID | Location | Details                                                                                                     |                                                                                                                                                                                                                                                                                           |                                                                                                                                                        |
|----|----------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | <b>Site Address:</b> Hamadryadd No.2<br><b>Licence Holder Address:</b> Davies Ltd, Cardiff                  | <b>Waste Licence:</b> Yes<br><b>Site Reference:</b> SEA/WREG/01/HAM<br><b>Waste Type:</b> Inert, Industrial, Household<br><b>Environmental Permitting Regulations (Waste) Reference:</b> -<br><b>Licence Issue:</b> 04/11/1994<br><b>Licence Surrender:</b> -                             | <b>Operator:</b> -<br><b>Licence Holder:</b> Davies - Middleton Davies Limited<br><b>First Recorded</b> 30/03/1994<br><b>Last Recorded:</b> 30/06/1996 |
| 2  | On site  | <b>Site Address:</b> The Marl<br><b>Licence Holder Address:</b> -                                           | <b>Waste Licence:</b> -<br><b>Site Reference:</b> -<br><b>Waste Type:</b> Inert, Industrial, Commercial, Household, Special<br><b>Environmental Permitting Regulations (Waste) Reference:</b> -<br><b>Licence Issue:</b> -<br><b>Licence Surrender:</b> -                                 | <b>Operator:</b> -<br><b>Licence Holder:</b> Cardiff Corporation<br><b>First Recorded</b> 31/12/1936<br><b>Last Recorded:</b> 31/12/1945               |
| A  | 88m NE   | <b>Site Address:</b> Hamadryad Embankment Phase 1<br><b>Licence Holder Address:</b> -                       | <b>Waste Licence:</b> Yes<br><b>Site Reference:</b> 91/02<br><b>Waste Type:</b> Inert, Industrial, Household<br><b>Environmental Permitting Regulations (Waste) Reference:</b> -<br><b>Licence Issue:</b> 06/02/1991<br><b>Licence Surrender:</b> 17/03/1992                              | <b>Operator:</b> -<br><b>Licence Holder:</b> Edmund Nuttall Limited<br><b>First Recorded</b> 06/02/1991<br><b>Last Recorded:</b> 31/12/1991            |
| A  | 90m NE   | <b>Site Address:</b> Butetown Link Landfill South Of Hamadryad Hospital<br><b>Licence Holder Address:</b> - | <b>Waste Licence:</b> Yes<br><b>Site Reference:</b> SEA/WREG/01/HAMA, 92/01<br><b>Waste Type:</b> Inert, Industrial, Household<br><b>Environmental Permitting Regulations (Waste) Reference:</b> WU1/L/DAV001<br><b>Licence Issue:</b> 16/03/1992<br><b>Licence Surrender:</b> 13/09/2001 | <b>Operator:</b> -<br><b>Licence Holder:</b> Davies - Middleton Davies Limited<br><b>First Recorded</b> 16/03/1992<br><b>Last Recorded:</b> 31/12/1993 |
| B  | 205m E   | <b>Site Address:</b> Butetown Link Landfill South Of Hamadryad Hospital<br><b>Licence Holder Address:</b> - | <b>Waste Licence:</b> Yes<br><b>Site Reference:</b> SEA/WREG/01/HAMA, 92/01<br><b>Waste Type:</b> Inert, Industrial, Household<br><b>Environmental Permitting Regulations (Waste) Reference:</b> WU1/L/DAV001<br><b>Licence Issue:</b> 16/03/1992<br><b>Licence Surrender:</b> 13/09/2001 | <b>Operator:</b> -<br><b>Licence Holder:</b> Davies - Middleton Davies Limited<br><b>First Recorded</b> 16/03/1992<br><b>Last Recorded:</b> 31/12/1993 |



| ID | Location | Details                                                                                             |                                                                                                                                                                                                                                |                                                                                                                                  |
|----|----------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 3  | 258m SW  | Site Address: Northern Old Clay Pit<br>Licence Holder Address: -                                    | Waste Licence: -<br>Site Reference: -<br>Waste Type: Inert, Industrial, Commercial, Household, Special<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: -                | Operator: -<br>Licence Holder: -<br>First Recorded 31/12/1920<br>Last Recorded: 31/12/1944                                       |
| 6  | 290m SW  | Site Address: British Gas Corporation<br>Licence Holder Address: -                                  | Waste Licence: -<br>Site Reference: -<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: -                                                                | Operator: -<br>Licence Holder: -<br>First Recorded -<br>Last Recorded: -                                                         |
| 8  | 364m N   | Site Address: Avondale Road<br>Licence Holder Address: Riverside Works, Ely                         | Waste Licence: Yes<br>Site Reference: 2/81<br>Waste Type: Inert, Industrial, Commercial, Household<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: 24/06/1981<br>Licence Surrender: 05/04/1983  | Operator: -<br>Licence Holder: W T Davies Transport Limited<br>First Recorded 24/06/1981<br>Last Recorded: 31/12/1982            |
| E  | 364m SW  | Site Address: River Loops<br>Licence Holder Address: -                                              | Waste Licence: Yes<br>Site Reference: -<br>Waste Type: Inert, Industrial, Commercial, Household, Special<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: -              | Operator: Cardiff City Council<br>Licence Holder: Cardiff City Council<br>First Recorded 18/09/1972<br>Last Recorded: 29/03/1994 |
| E  | 370m SW  | Site Address: Ferry Road No.2<br>Licence Holder Address: Baltic House, Mount Stuart Square, Cardiff | Waste Licence: Yes<br>Site Reference: 96/07<br>Waste Type: Inert, Industrial, Commercial, Household, Special<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: 05/06/1974<br>Licence Surrender: - | Operator: -<br>Licence Holder: Cardiff Bay Development Corporation<br>First Recorded 31/12/1970<br>Last Recorded: 31/12/1977     |
| 11 | 387m NE  | Site Address: Glamorganshire Canal<br>Licence Holder Address: -                                     | Waste Licence: -<br>Site Reference: 6815/0039<br>Waste Type: Inert, Industrial, Commercial, Household<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: -                 | Operator: -<br>Licence Holder: Cardiff Corporation<br>First Recorded 30/12/1931<br>Last Recorded: 31/12/1950                     |



| ID | Location | Details                                                                                                                                                                 |                                                                                                                                                                                                                                                  |                                                                                                                            |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 12 | 442m S   | Site Address: Land at North of the Red House Public House Prospect Place<br>Licence Holder Address: Middleton, Davies Limited, Phoenix Estate, Caerphilly Road, Cardiff | Waste Licence: Yes<br>Site Reference: SEW/216, 588<br>Waste Type: Inert, Industrial, Household<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: 16/01/1998<br>Licence Surrender: -                                 | Operator: -<br>Licence Holder: Davies - Middleton Davies Limited<br>First Recorded 31/01/1998<br>Last Recorded: 16/09/1999 |
| 13 | 449m SW  | Site Address: Southern Old Clay at Ferry Road<br>Licence Holder Address: -                                                                                              | Waste Licence: -<br>Site Reference: -<br>Waste Type: Inert, Industrial, Commercial, Household, Special<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: -                                  | Operator: -<br>Licence Holder: -<br>First Recorded 31/12/1920<br>Last Recorded: 31/12/1944                                 |
| H  | 484m NE  | Site Address: Old River Bed<br>Licence Holder Address: 6 Oak Court, Betts Way, Crawley, West Sussex                                                                     | Waste Licence: Yes<br>Site Reference: 92/15, SEA/WREG/01/OCEAN<br>Waste Type: Inert, Industrial, Household<br>Environmental Permitting Regulations (Waste) Reference: WU1/L/OCE001<br>Licence Issue: 04/06/1992<br>Licence Surrender: 24/12/1999 | Operator: -<br>Licence Holder: Ocean Developments Limited<br>First Recorded 24/08/1992<br>Last Recorded: -                 |
| H  | 484m NE  | Site Address: Taffs Island<br>Licence Holder Address: 6 Oak Court, Betts Way, Crawley, West Sussex                                                                      | Waste Licence: Yes<br>Site Reference: SEA/WREG/01/OCEAN<br>Waste Type: Inert, Industrial, Household<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: 04/02/1993<br>Licence Surrender: 31/12/1999                   | Operator: -<br>Licence Holder: Ocean Developments Limited<br>First Recorded 30/06/1993<br>Last Recorded: -                 |

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

### 3.5 Historical waste sites

|                            |           |
|----------------------------|-----------|
| <b>Records within 500m</b> | <b>13</b> |
|----------------------------|-----------|

Waste site records derived from Local Authority planning records and high detail historical mapping. Features are displayed on the Waste and landfill map on **page 47**



| ID | Location | Address              | Further Details                                                                                                                                  | Date |
|----|----------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------|
| C  | 238m W   | Site Address:<br>N/A | Type of Site: Scrap Metal Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1984 |
| C  | 243m W   | Site Address:<br>N/A | Type of Site: Scrap Metal Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1973 |
| C  | 243m W   | Site Address:<br>N/A | Type of Site: Scrap Metal Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1968 |
| C  | 243m W   | Site Address:<br>N/A | Type of Site: Scrap Metal Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1968 |
| D  | 300m W   | Site Address:<br>N/A | Type of Site: Scrap Metal Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1984 |
| D  | 301m W   | Site Address:<br>N/A | Type of Site: Scrap Metal Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1974 |
| D  | 304m W   | Site Address:<br>N/A | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon       | 1996 |
| D  | 305m W   | Site Address:<br>N/A | Type of Site: Scrap Metal Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1973 |
| D  | 305m W   | Site Address:<br>N/A | Type of Site: Scrap Metal Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1968 |



| ID | Location | Address              | Further Details                                                                                                                                   | Date |
|----|----------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|
| D  | 305m W   | Site Address:<br>N/A | Type of Site: Scrap Metal Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon  | 1968 |
| F  | 365m NE  | Site Address:<br>N/A | Type of Site: Scrap Metal Works<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1953 |
| F  | 366m NE  | Site Address:<br>N/A | Type of Site: Scrap Metal Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon  | 1953 |
| 9  | 380m S   | Site Address:<br>N/A | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon        | 1989 |

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

### 3.6 Licensed waste sites

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>2</b> |
|----------------------------|----------|

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

Features are displayed on the Waste and landfill map on **page 47**

| ID | Location | Details                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                   |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 234m NE  | Site Name: Butetown Link Landfill<br>South Of Hamadryad Hospital<br>Site Address: Butetown Link<br>Landfill, Ferry Road, Grangetown,<br>Cardiff, Glamorgan, CF11 7DX<br>Correspondence Address: - | Type of Site: Landfill taking other<br>wastes<br>Size: 25000 tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: DAV001<br>EPR reference:<br>EA/EPR/NP3799FV/S002<br>Operator: Davies Middleton Davies<br>Ltd<br>Waste Management licence No:<br>30060<br>Annual Tonnage: 100000 | Issue Date: 16/03/1992<br>Effective Date: -<br>Modified: 04/11/1994<br>Surrendered Date: 13/09/2001<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Surrendered |

| ID | Location | Details                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                     |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 235m NE  | Site Name: Butetown Link Landfill<br>South Of Hamadryad Hospital<br>Site Address: Butetown Link<br>Landfill, Ferry Road, Grangetown,<br>Cardiff, Glamorgan, CF11 7DX<br>Correspondence Address: - | Type of Site: Landfill taking other<br>wastes<br>Size: >= 75000 tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: DAV001<br>EPR reference: NP3799FV/S002<br>Operator: Davies Middleton Davies<br>Ltd<br>Waste Management licence No:<br>30060<br>Annual Tonnage: 100000 | Issue Date: 16/03/1992<br>Effective Date: -<br>Modified: 04/11/1994<br>Surrendered Date: 2.00109e+016<br>Expiry Date: 0<br>Cancelled Date: 0<br>Status: Surrendered |

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

### 3.7 Waste exemptions

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>3</b> |
|----------------------------|----------|

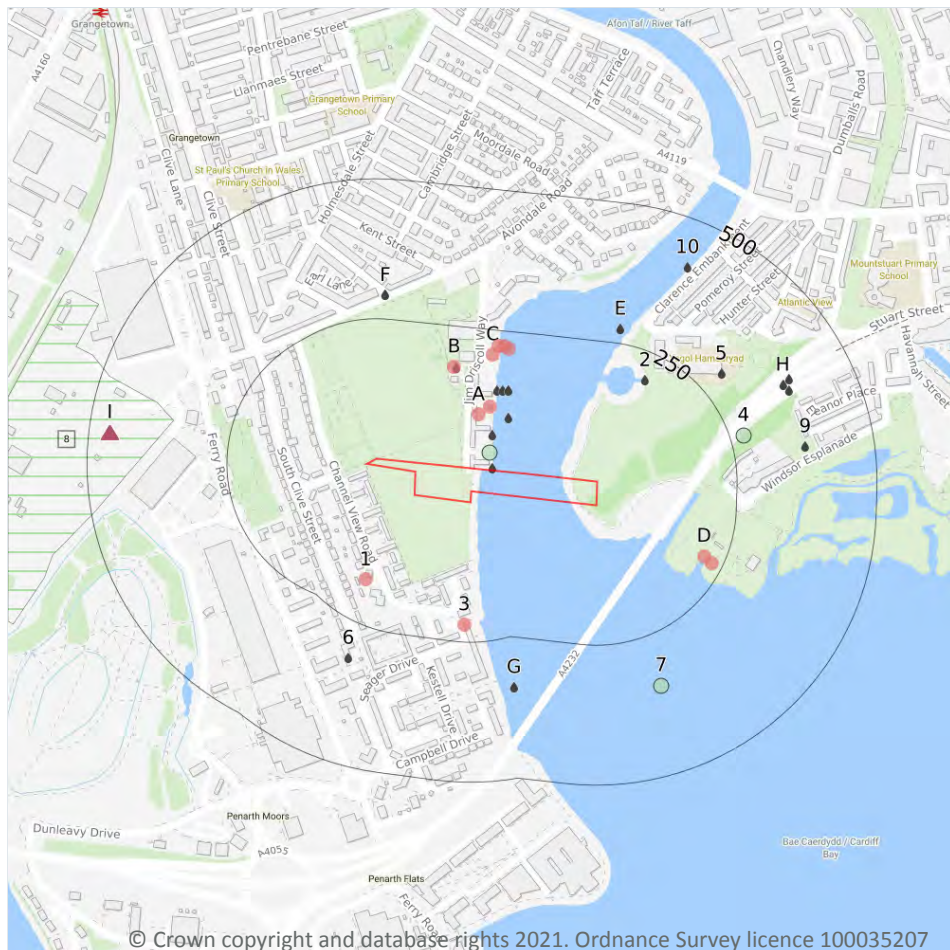
Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 47**

| ID | Location | Site                                                                                 | Reference     | Category              | Sub-Category                       | Description                  |
|----|----------|--------------------------------------------------------------------------------------|---------------|-----------------------|------------------------------------|------------------------------|
| 4  | 270m NE  | Royal Hamadryad Hospital, Cardiff, Caerdydd, CF10 5UY                                | NRW-WME002114 | Using waste exemption | Waste Exemption - Non-Agricultural | Use of waste in construction |
| B  | 331m E   | JETPLANT HIRE LTD, Cardiff Yacht Club, Windsor Esplanade, Cardiff, Caerdydd, CF105BG | NRW-WME029785 | Using waste exemption | Not on a farm                      | Use of waste in construction |
| B  | 331m E   | Cardiff Yacht Club Windsor Esplanade CARDIFF CARDIFF CF105BG                         | NRW-WME036148 | Using waste exemption | Not on a farm                      | Use of waste in construction |

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

## 4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

### 4.1 Recent industrial land uses

Records within 250m

11

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 55**

| ID | Location | Company                 | Address               | Activity                          | Category                      |
|----|----------|-------------------------|-----------------------|-----------------------------------|-------------------------------|
| A  | 97m N    | Wharf                   | South Glamorgan, CF11 | Moorings and Unloading Facilities | Water                         |
| A  | 113m N   | Electricity Sub Station | South Glamorgan, CF11 | Electrical Features               | Infrastructure and Facilities |
| 1  | 175m SW  | Electricity Sub Station | South Glamorgan, CF11 | Electrical Features               | Infrastructure and Facilities |



| ID | Location | Company                    | Address               | Activity                          | Category                      |
|----|----------|----------------------------|-----------------------|-----------------------------------|-------------------------------|
| B  | 178m N   | Pumping Station            | South Glamorgan, CF11 | Water Pumping Stations            | Industrial Features           |
| C  | 206m N   | Slipway                    | South Glamorgan, CF11 | Moorings and Unloading Facilities | Water                         |
| D  | 212m SE  | Slipway                    | South Glamorgan, CF10 | Moorings and Unloading Facilities | Water                         |
| 3  | 218m S   | Electricity Sub Station    | South Glamorgan, CF11 | Electrical Features               | Infrastructure and Facilities |
| C  | 219m N   | Slipway                    | South Glamorgan, CF11 | Moorings and Unloading Facilities | Water                         |
| C  | 222m N   | Channel View Waterbus Stop | South Glamorgan, CF11 | Ferries and Ferry Terminals       | Water                         |
| C  | 223m N   | Channel View Waterbus Stop | South Glamorgan, CF11 | Ferries and Ferry Terminals       | Water                         |
| D  | 230m SE  | Marina                     | South Glamorgan, CF10 | Moorings and Unloading Facilities | Water                         |

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

**Records within 500m**

**0**

Open, closed, under development and obsolete petrol stations.

*This data is sourced from Experian.*

## 4.3 Electricity cables

**Records within 500m**

**0**

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

## 4.4 Gas pipelines

**Records within 500m****0**

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

## 4.5 Sites determined as Contaminated Land

**Records within 500m****0**

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

*This data is sourced from Local Authority records.*

## 4.6 Control of Major Accident Hazards (COMAH)

**Records within 500m****1**

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.

Features are displayed on the Current industrial land use map on **page 55**

| ID | Location | Company                          | Address                                                                                                     | Operational status    | Tier                      |
|----|----------|----------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------|
| 8  | 354m W   | Wales And West Utilities Limited | Wales and West Utilities Limited, Grangetown Holder Station, Ferry Road, Cardiff, South Glamorgan, CF11 7DW | Historical COMAH Site | COMAH Lower Tier Operator |

*This data is sourced from the Health and Safety Executive.*

## 4.7 Regulated explosive sites

**Records within 500m****0**

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

*This data is sourced from the Health and Safety Executive.*



## 4.8 Hazardous substance storage/usage

### Records within 500m

**5**

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

Features are displayed on the Current industrial land use map on **page 55**

| ID | Location | Details                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I  | 462m W   | Application reference number: H/01/00002/R<br>Application status: Approved<br>Application date: 18/05/2001<br>Address: Transco PLC, Grangetown Holder Station, Ferry Road, Grangetown, Cardiff, South Glamorgan, Wales, CF11 0XR | Details: Continuation of existing consent following a change in control of part of the land (Ref. H01/R)<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified                           |
| I  | 462m W   | Application reference number: H/99/00001/R<br>Application status: Withdrawn<br>Application date: 22/01/1999<br>Address: Part of Land, Transco, Ferry Road, Grangetown, Cardiff, CF1 7XR                                          | Details: Continuation of existing consent following a change in control of the land - Storage of natural gas.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified                      |
| I  | 462m W   | Application reference number: H/99/00002/R<br>Application status: Historical Consent<br>Application date: 12/03/1999<br>Address: Part of Land, Transco, Ferry Road, Grangetown, Cardiff, CF1 7XR                                 | Details: Continuation of existing consent following a change in control of the land - Storage of natural gas.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified                      |
| I  | 462m W   | Application reference number: H/00/00001/R<br>Application status: Historical Consent<br>Application date: 26/04/2000<br>Address: Part of Land, Transco, Ferry Road, Grangetown, Cardiff, CF1 7XR                                 | Details: Continuation of existing consent following a change in control of part of the land (Ref. H01/R) - Storage of natural gas.<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| I  | 462m W   | Application reference number: H/01/00001/R<br>Application status: Historical Consent<br>Application date: 03/01/2001<br>Address: Grangetown Holder Station, Ferry Road, Grangetown, Cardiff, CF11 0XR                            | Details: Continuation of planning hazardous substance consent<br>Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified                                                                      |

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

### Records within 500m

**0**

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

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



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

Records within 500m

0

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

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

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

Records within 500m

0

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

*This data is sourced from Local Authority records.*

#### 4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

#### 4.13 Licensed Discharges to controlled waters

Records within 500m

23

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 55**

| ID | Location | Address                                                                              | Details                                                                                                                             |                                                                                                                                                  |
|----|----------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 3m N     | THE SANDWHARF JIM DRISCOLL WAY, THE SANDWHARF, JIM DRISCOLL WAY, GRANGETOWN, CARDIFF | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: AN0323201<br>Permit Version: 1<br>Receiving Water: THE RIVER TAFF | Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV<br>Issue date: 25/04/2002<br>Effective Date: 25/04/2002<br>Revocation Date: 10/02/2005 |
| A  | 62m N    | THE SANDWHARF JIM DRISCOLL WAY, THE SANDWHARF, JIM DRISCOLL WAY, GRANGETOWN, CARDIFF | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: AN0313001<br>Permit Version: 1<br>Receiving Water: RIVER TAFF     | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY<br>Issue date: 06/12/2001<br>Effective Date: 06/12/2001<br>Revocation Date: 02/05/2002 |

| ID | Location | Address                                                                                                   | Details                                                                                                                                                           |                                                                                                                                                  |
|----|----------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 95m N    | THE SANDWHARF JIM DRISCOLL WAY, THE SANDWHARF, JIM DRISCOLL WAY, GRANGETOWN, CARDIFF                      | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: AN0313001<br>Permit Version: 2<br>Receiving Water: RIVER TAFF                                   | Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV<br>Issue date: 02/05/2002<br>Effective Date: 03/05/2002<br>Revocation Date: 04/10/2006 |
| A  | 143m N   | CARDIFF GRANGETOWN THE MARL, CARDIFF GRANGETOWN THE MARL, GRANGETOWN THE MARL, THE MARL, UNKNOWN, UNKNOWN | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: AF3018201<br>Permit Version: 1<br>Receiving Water: TAFF                                         | Status: Surrendered<br>Issue date: 06/04/1970<br>Effective Date: 06/04/1970<br>Revocation Date: -                                                |
| A  | 144m N   | SPS AT THE MARL PLAYING FIELDS GRAN, SPS AT THE MARL PLAYING FIELDS, GRANGETOWN, CARDIFF, CARDIFF CBC     | Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY<br>Permit Number: AN0028601<br>Permit Version: 4<br>Receiving Water: CARDIFF BAY               | Status: Effective<br>Issue date: 12/08/1996<br>Effective Date: 01/10/1997<br>Revocation Date: -                                                  |
| A  | 145m N   | SPS AT THE MARL PLAYING FIELDS GRAN, SPS AT THE MARL PLAYING FIELDS, GRANGETOWN, CARDIFF, CARDIFF CBC     | Effluent Type: UNSPECIFIED<br>Permit Number: AN0028601<br>Permit Version: 2<br>Receiving Water: CARDIFF BAY                                                       | Status: REVOKED - UNSPECIFIED<br>Issue date: 13/10/1992<br>Effective Date: 13/01/1993<br>Revocation Date: 31/03/1997                             |
| A  | 145m N   | SPS AT THE MARL PLAYING FIELDS GRAN, SPS AT THE MARL PLAYING FIELDS, GRANGETOWN, CARDIFF, CARDIFF CBC     | Effluent Type: UNSPECIFIED<br>Permit Number: AN0028601<br>Permit Version: 1<br>Receiving Water: CARDIFF BAY                                                       | Status: REVOKED - UNSPECIFIED<br>Issue date: 20/11/1987<br>Effective Date: 20/11/1987<br>Revocation Date: 12/01/1993                             |
| B  | 176m N   | Grangetown SPS, The Marl Playing Fields Jim Driscoll Way, Grangetown, Cardiff, CF11 7HB                   | Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY<br>Permit Number: AN0028601<br>Permit Version: 5<br>Receiving Water: Cardiff Bay | Status: Effective<br>Issue date: 17/12/2019<br>Effective Date: 17/12/2019<br>Revocation Date: -                                                  |
| B  | 176m N   | Grangetown SPS, The Marl Playing Fields Jim Driscoll Way, Grangetown, Cardiff, CF11 7HB                   | Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY<br>Permit Number: AN0028601<br>Permit Version: 5<br>Receiving Water: Cardiff Bay               | Status: Effective<br>Issue date: 17/12/2019<br>Effective Date: 17/12/2019<br>Revocation Date: -                                                  |
| 2  | 200m NE  | HARROWBY ST SSO BUTETOWN CARDIFF, HARROWBY ST SSO, BUTETOWN, CARDIFF, CARDIFF CBC                         | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: AN0185101<br>Permit Version: 2<br>Receiving Water: TAFF ESTUARY         | Status: Effective<br>Issue date: 02/10/1991<br>Effective Date: 02/10/1991<br>Revocation Date: -                                                  |

| ID | Location | Address                                                                                                                                                                       | Details                                                                                                                                                 |                                                                                                                                                       |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| E  | 276m N   | THE HAMADRYAD OUTFALL<br>CLARENCE EMBA, THE<br>HAMADRYAD OUTFALL CLARENCE<br>E, CLARENCE EMBANKMENT<br>CARDIFF, CARDIFF, UNKNOWN,<br>UNKNOWN                                  | Effluent Type: UNSPECIFIED<br>Permit Number: AN0028701<br>Permit Version: 1<br>Receiving Water: TAFF ESTUARY                                            | Status: REVOKED - UNSPECIFIED<br>Issue date: 20/11/1987<br>Effective Date: 20/11/1987<br>Revocation Date: 12/01/1993                                  |
| E  | 276m N   | THE HAMADRYAD OUTFALL<br>CLARENCE EMBA, THE<br>HAMADRYAD OUTFALL CLARENCE<br>E, CLARENCE EMBANKMENT<br>CARDIFF, CARDIFF, UNKNOWN,<br>UNKNOWN                                  | Effluent Type: UNSPECIFIED<br>Permit Number: AN0028701<br>Permit Version: 2<br>Receiving Water: TAFF ESTUARY                                            | Status: CONSENT EXPIRED - TIME<br>LIMIT<br>Issue date: 13/10/1992<br>Effective Date: 13/01/1993<br>Revocation Date: 17/10/1996                        |
| F  | 292m N   | AMHERST STREET/FERRY SSO<br>CARDIFF, AMHERST STREET/FERRY<br>SSO, AMHERST STREET/FERRY,<br>CARDIFF, CARDIFF CBC                                                               | Effluent Type: UNSPECIFIED<br>Permit Number: AN0087101<br>Permit Version: 1<br>Receiving Water: TAFF                                                    | Status: NEW CONSENT, BY<br>APPLICATION (WRA 91, SECTION<br>88)<br>Issue date: 20/10/1989<br>Effective Date: 20/10/1989<br>Revocation Date: 30/03/2006 |
| F  | 292m N   | AMHERST STREET/FERRY SSO<br>CARDIFF, AMHERST STREET/FERRY<br>SSO, AMHERST STREET/FERRY,<br>CARDIFF, CARDIFF CBC                                                               | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: AN0087101<br>Permit Version: 2<br>Receiving Water: TAFF | Status: REVOKED (WRA 91, S88 &<br>SCHD 10 AS AMENDED BY ENV<br>Issue date: 18/03/2005<br>Effective Date: 31/03/2006<br>Revocation Date: 31/12/2005    |
| 5  | 293m NE  | HARROWBY ST SSO BUTETOWN<br>CARDIFF, HARROWBY ST SSO,<br>BUTETOWN, CARDIFF, CARDIFF CBC                                                                                       | Effluent Type: UNSPECIFIED<br>Permit Number: AN0185101<br>Permit Version: 1<br>Receiving Water: TAFF ESTUARY                                            | Status: REVOKED - UNSPECIFIED<br>Issue date: 20/09/1990<br>Effective Date: 20/09/1990<br>Revocation Date: 01/10/1991                                  |
| 6  | 314m S   | THE RED HOUSE FERRY ROAD<br>GRANGETOWN, THE RED HOUSE<br>FERRY ROAD GRANGET, FERRY<br>ROAD GRANGETOWN CARDIFF,<br>GRANGETOWN CARDIFF, CARDIFF                                 | Effluent Type: -<br>Permit Number: AF4019601<br>Permit Version: 1<br>Receiving Water: RIVER TAFF                                                        | Status: Effective<br>Issue date: 28/09/1976<br>Effective Date: 28/09/1976<br>Revocation Date: -                                                       |
| G  | 338m S   | Unknown Unknown Unknown<br>Unknown Unk, Unknown Unknown<br>Unknown Unknown, UNKNOWN<br>UNKNOWN UNKNOWN<br>UNKNOWN, UNKNOWN<br>UNKNOWN UNKNOWN,<br>UNKNOWN UNKNOWN,<br>UNKNOWN | Effluent Type: UNSPECIFIED<br>Permit Number: AN0214301<br>Permit Version: 2<br>Receiving Water: TAFF ESTUARY                                            | Status: CONSENT EXPIRED - TIME<br>LIMIT<br>Issue date: 17/05/1990<br>Effective Date: 17/05/1990<br>Revocation Date: 16/01/1995                        |



| ID | Location | Address                                                                                                                                                                       | Details                                                                                                                                                          |                                                                                                                                |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| G  | 338m S   | Unknown Unknown Unknown<br>Unknown Unk, Unknown Unknown<br>Unknown Unknown, UNKNOWN<br>UNKNOWN UNKNOWN<br>UNKNOWN, UNKNOWN<br>UNKNOWN UNKNOWN,<br>UNKNOWN UNKNOWN,<br>UNKNOWN | Effluent Type: UNSPECIFIED<br>Permit Number: AN0214301<br>Permit Version: 1<br>Receiving Water: TAFF ESTUARY                                                     | Status: REVOKED - UNSPECIFIED<br>Issue date: 01/01/1901<br>Effective Date: 01/01/1901<br>Revocation Date: 16/05/1990           |
| H  | 373m NE  | SOUTH BUTETOWN, SOUTH<br>BUTETOWN, UNKNOWN,<br>UNKNOWN, UNKNOWN,<br>UNKNOWN                                                                                                   | Effluent Type: UNSPECIFIED<br>Permit Number: AN0033801<br>Permit Version: 1<br>Receiving Water: TAFF ESTUARY                                                     | Status: CONSENT EXPIRED - TIME<br>LIMIT<br>Issue date: 20/11/1987<br>Effective Date: 20/11/1987<br>Revocation Date: 03/09/1992 |
| 9  | 376m E   | WINDSOR ESPLANADE OUTFALL<br>CARDIFF, WINDSOR ESPLANADE<br>OUTFALL CARDIF, Cardiff, CARDIFF<br>CBC, WALES                                                                     | Effluent Type: SEWAGE<br>DISCHARGES - FINAL/TREATED<br>EFFLUENT - WATER COMPANY<br>Permit Number: AN0048001<br>Permit Version: 2<br>Receiving Water: Cardiff Bay | Status: Effective<br>Issue date: 13/10/1992<br>Effective Date: 13/01/1993<br>Revocation Date: -                                |
| H  | 378m NE  | GLAMORGAN CANAL CARDIFF,<br>GLAMORGAN CANAL CARDIFF,<br>CARDIFF, CARDIFF, CARDIFF,<br>CARDIFF                                                                                 | Effluent Type: UNSPECIFIED<br>Permit Number: AN0046301<br>Permit Version: 1<br>Receiving Water: TAFF ESTUARY                                                     | Status: CONSENT EXPIRED - TIME<br>LIMIT<br>Issue date: 27/11/1987<br>Effective Date: 27/11/1987<br>Revocation Date: 03/09/1992 |
| H  | 387m NE  | CENTRAL DEVELOPMENT AREA<br>(PHAS, CENTRAL DEVELOPMENT<br>AREA (PHAS, UNKNOWN,<br>UNKNOWN, UNKNOWN,<br>UNKNOWN                                                                | Effluent Type: TRADE DISCHARGES -<br>SITE DRAINAGE<br>Permit Number: AF4004501<br>Permit Version: 1<br>Receiving Water: RIVER TAFF                               | Status: Effective<br>Issue date: 02/07/1973<br>Effective Date: 02/07/1973<br>Revocation Date: -                                |
| 10 | 415m NE  | CARDIFF - FERRY ROAD PREMISES,<br>CARDIFF - FERRY ROAD PREMISES,<br>UNKNOWN, UNKNOWN,<br>UNKNOWN, UNKNOWN                                                                     | Effluent Type: UNSPECIFIED<br>Permit Number: AN0001501<br>Permit Version: 1<br>Receiving Water: TAFF ESTUARY                                                     | Status: CONSENT EXPIRED - TIME<br>LIMIT<br>Issue date: 20/11/1984<br>Effective Date: 20/11/1984<br>Revocation Date: 14/08/1985 |

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

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

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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

0

Discharges of Special Category Effluents to the public sewer.

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

#### 4.16 List 1 Dangerous Substances

Records within 500m

0

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

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

#### 4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

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

Records within 500m

3

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 55**

| ID | Location | Details                                                                                                                                      |                                                                                                                     |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| A  | 30m N    | Incident Date: 08/05/2008<br>Incident Identification: 585102<br>Pollutant: Pollutant Not Identified<br>Pollutant Description: Not Identified | Water Impact: Category 2 (Significant)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| 4  | 274m E   | Incident Date: 03/03/2002<br>Incident Identification: 61563<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)       |

| ID | Location | Details                                                                                                                     |                                                                                              |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 7  | 341m S   | Incident Date: 12/09/2014<br>Incident Identification: 1276877<br>Pollutant: Other Pollutant<br>Pollutant Description: Other | Water Impact: -<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |

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

## 4.19 Pollution inventory substances

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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

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

## 4.21 Pollution inventory radioactive waste

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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.*

## 5 Hydrogeology - Superficial aquifer



— Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

### 5.1 Superficial aquifer

Records within 500m

1

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 65**

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

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

## Bedrock aquifer



— Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

## 5.2 Bedrock aquifer

Records within 500m

1

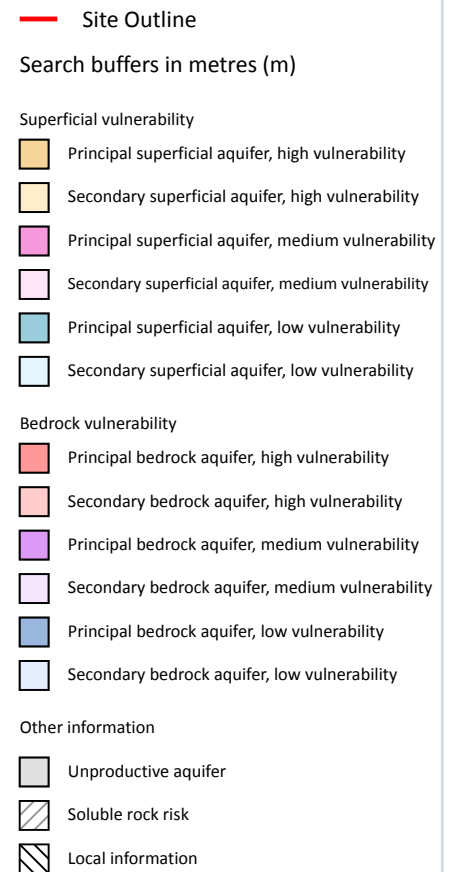
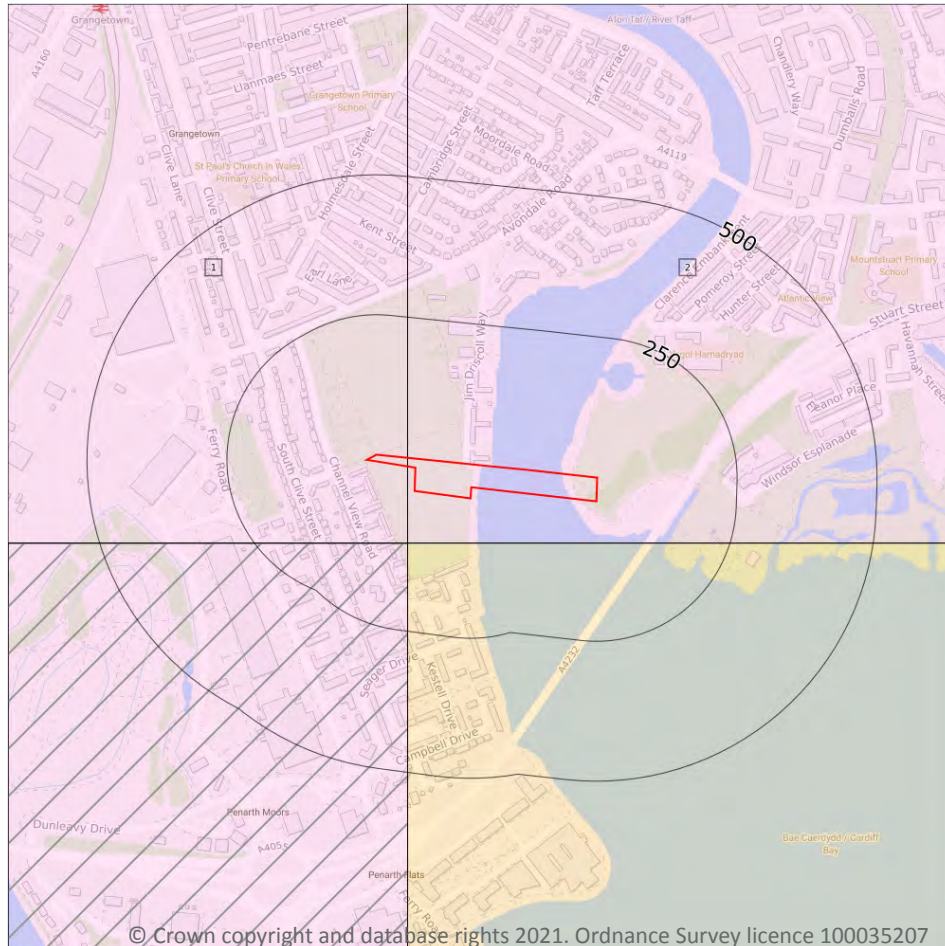
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 66](#)

| ID | Location | Designation | Description                                                                                                                                                                                                                                             |
|----|----------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | Secondary B | Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers |

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

## 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 67**

| ID | Location | Summary                                                                                                                                                                                 | Soil / surface                                                                                                        | Superficial geology                                                                                                                                         | Bedrock geology                                                                                                |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1  | On site  | <b>Summary Classification:</b><br>Secondary superficial aquifer - Medium Vulnerability<br><b>Combined classification:</b><br>Productive Bedrock Aquifer, Productive Superficial Aquifer | <b>Leaching class:</b><br>Intermediate<br><b>Infiltration value:</b><br>>70%<br><b>Dilution value:</b><br>>550mm/year | <b>Vulnerability:</b> Medium<br><b>Aquifer type:</b> Secondary<br><b>Thickness:</b> >10m<br><b>Patchiness value:</b> >90%<br><b>Recharge potential:</b> Low | <b>Vulnerability:</b> Low<br><b>Aquifer type:</b> Secondary<br><b>Flow mechanism:</b> Well connected fractures |
| 2  | On site  | <b>Summary Classification:</b><br>Secondary superficial aquifer - Medium Vulnerability<br><b>Combined classification:</b><br>Productive Bedrock Aquifer, Productive Superficial Aquifer | <b>Leaching class:</b><br>Intermediate<br><b>Infiltration value:</b><br>>70%<br><b>Dilution value:</b><br>>550mm/year | <b>Vulnerability:</b> Medium<br><b>Aquifer type:</b> Secondary<br><b>Thickness:</b> >10m<br><b>Patchiness value:</b> >90%<br><b>Recharge potential:</b> Low | <b>Vulnerability:</b> Low<br><b>Aquifer type:</b> Secondary<br><b>Flow mechanism:</b> 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

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>0</b> |
|------------------------|----------|

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

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

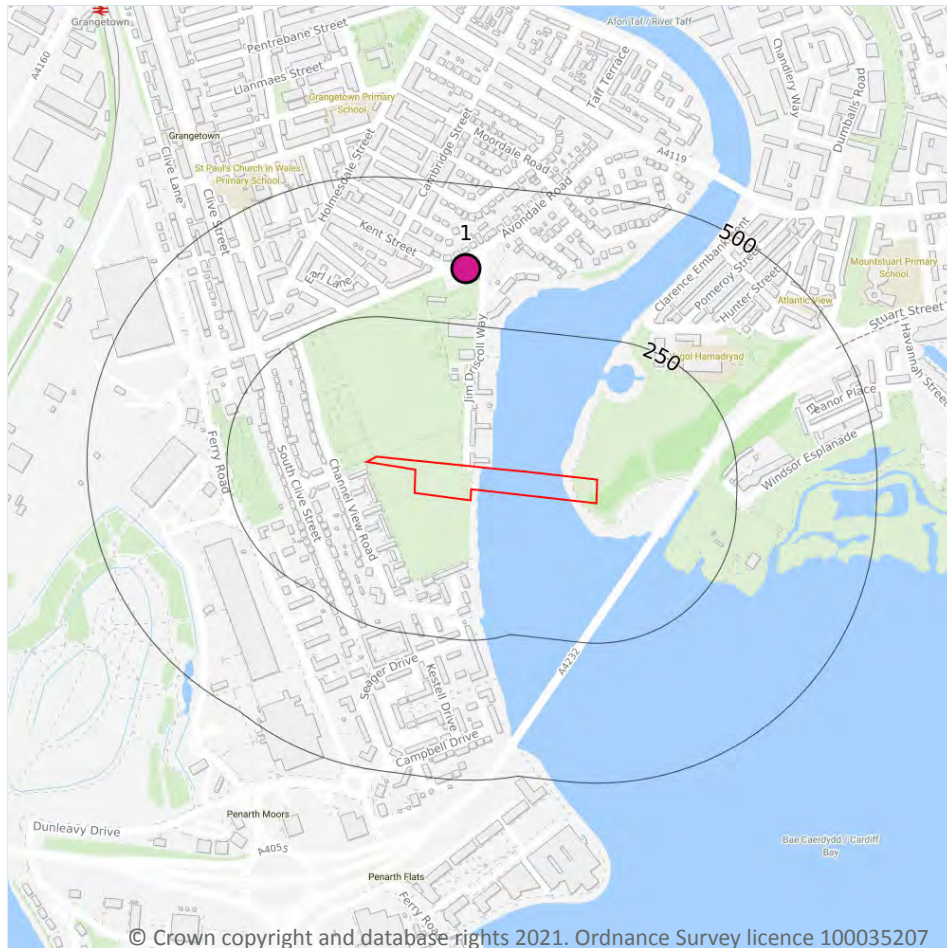
## 5.5 Groundwater vulnerability- local information

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>0</b> |
|------------------------|----------|

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

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

## 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  
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

7

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 69**

| ID | Location | Details                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                 |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 350m N   | Status: Active<br>Licence No: WA/057/0025/013<br>Details: Heat Pump - Very Low<br>Direct Source: Underground strata<br>Point: -<br>Data Type: Point<br>Name: -<br>Easting: 318104<br>Northing: 174494                                                             | Annual Volume (m <sup>3</sup> ): 11,979<br>Max Daily Volume (m <sup>3</sup> ): 108<br>Original Application No: -<br>Original Start Date: 2016-09-13 00:00:00.0000000<br>Expiry Date: 2029-03-31 00:00:00.0000000<br>Issue No: -<br>Version Start Date: -<br>Version End Date: - |
| -  | 1534m N  | Status: Historical<br>Licence No: 21/57/25/0029<br>Details: Non-Evaporative Cooling<br>Direct Source: EAW Groundwater<br>Point: WELL AT THE BREWERY (POINT B)<br>Data Type: Point<br>Name: S A Brain & Co Ltd<br>Easting: 318140<br>Northing: 175680              | Annual Volume (m <sup>3</sup> ): 436425<br>Max Daily Volume (m <sup>3</sup> ): 1200.17<br>Original Application No: -<br>Original Start Date: 10/02/1966<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 20/10/2008<br>Version End Date: -                             |
| -  | 1534m N  | Status: Active<br>Licence No: 21/57/25/0029<br>Details: Non Evaporative Cooling - Low<br>Direct Source: -<br>Point: -<br>Data Type: Point<br>Name: -<br>Easting: 318140<br>Northing: 175680                                                                       | Annual Volume (m <sup>3</sup> ): 436,425<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 2008-10-20 00:00:00.0000000<br>Expiry Date: -<br>Issue No: -<br>Version Start Date: -<br>Version End Date: -                            |
| -  | 1575m N  | Status: Historical<br>Licence No: 21/57/25/0029<br>Details: Non-Evaporative Cooling<br>Direct Source: EAW Groundwater<br>Point: WELL AT THE BREWERY (POINT A)<br>Data Type: Point<br>Name: S A Brain & Co Ltd<br>Easting: 318160<br>Northing: 175720              | Annual Volume (m <sup>3</sup> ): 436425<br>Max Daily Volume (m <sup>3</sup> ): 1200.17<br>Original Application No: -<br>Original Start Date: 10/02/1966<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 20/10/2008<br>Version End Date: -                             |
| -  | 1646m N  | Status: Historical<br>Licence No: 21/57/25/0067<br>Details: General Washing/Process Washing<br>Direct Source: EAW Groundwater<br>Point: BOREHOLE AT INITIAL LAUNDRY<br>Data Type: Point<br>Name: Initial Textiles Services<br>Easting: 317660<br>Northing: 175780 | Annual Volume (m <sup>3</sup> ): 90920<br>Max Daily Volume (m <sup>3</sup> ): 363.68<br>Original Application No: -<br>Original Start Date: 13/07/1990<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 16/08/2004<br>Version End Date: -                               |

| ID | Location | Details                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                          |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1972m N  | Status: Historical<br>Licence No: 21/57/25/0028<br>Details: Non-Evaporative Cooling<br>Direct Source: EAW Groundwater<br>Point: WELL AT THE OLD BREWERY (POINT C)<br>Data Type: Point<br>Name: S A Brain & Co Ltd<br>Easting: 318340<br>Northing: 176100 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 11/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 21/05/1999<br>Version End Date: - |
| -  | 1994m N  | Status: Historical<br>Licence No: 21/57/25/0028<br>Details: Non-Evaporative Cooling<br>Direct Source: EAW Groundwater<br>Point: WELL AT THE OLD BREWERY (POINT A)<br>Data Type: Point<br>Name: S A Brain & Co Ltd<br>Easting: 318360<br>Northing: 176120 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 11/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 21/05/1999<br>Version End Date: - |

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

## 5.7 Surface water abstractions

|                             |           |
|-----------------------------|-----------|
| <b>Records within 2000m</b> | <b>11</b> |
|-----------------------------|-----------|

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 69**

| ID | Location | Details                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                     |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 850m S   | Status: Historical<br>Licence No: 21/57/25/0077<br>Details: Dust Suppression<br>Direct Source: EAW Surface Water<br>Point: CARDIFF BAY AT INTERNATIONAL SPORTS VILLAGE, CARDIFF<br>Data Type: Line<br>Name: Cardiff County Council<br>Easting: 318130<br>Northing: 173230 | Annual Volume (m <sup>3</sup> ): 9600<br>Max Daily Volume (m <sup>3</sup> ): 32<br>Original Application No: -<br>Original Start Date: 18/10/2004<br>Expiry Date: 31/03/2009<br>Issue No: 2<br>Version Start Date: 01/04/2008<br>Version End Date: - |

| ID | Location | Details                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                    |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1125m SW | Status: Historical<br>Licence No: 21/57/31/0064<br>Details: Dust Suppression<br>Direct Source: EAW Surface Water<br>Point: RIVER ELY AT VICTORIA WHARF, CARDIFF<br>Data Type: Line<br>Name: Taylor Woodrow Construction<br>Easting: 317520<br>Northing: 173080             | Annual Volume (m <sup>3</sup> ): 9600<br>Max Daily Volume (m <sup>3</sup> ): 32<br>Original Application No: -<br>Original Start Date: 18/10/2004<br>Expiry Date: 31/03/2009<br>Issue No: 1<br>Version Start Date: 01/04/2008<br>Version End Date: -                                |
| -  | 1328m S  | Status: Historical<br>Licence No: 21/57/31/0065<br>Details: Make-Up Or Top Up Water<br>Direct Source: EAW Surface Water<br>Point: INLAND WATER KNOWN AS RIVER ELY IN CARDIFF<br>Data Type: Point<br>Name: Cardiff Harbour Authority<br>Easting: 317960<br>Northing: 172760 | Annual Volume (m <sup>3</sup> ): 54420<br>Max Daily Volume (m <sup>3</sup> ): 14460<br>Original Application No: -<br>Original Start Date: 26/08/2008<br>Expiry Date: 31/03/2017<br>Issue No: 1<br>Version Start Date: 26/08/2008<br>Version End Date: -                            |
| -  | 1328m S  | Status: Historical<br>Licence No: 21/57/31/0065<br>Details: Fish Pass/Canoe Pass<br>Direct Source: EAW Surface Water<br>Point: INLAND WATER KNOWN AS RIVER ELY IN CARDIFF<br>Data Type: Point<br>Name: Cardiff Harbour Authority<br>Easting: 317960<br>Northing: 172760    | Annual Volume (m <sup>3</sup> ): 54420<br>Max Daily Volume (m <sup>3</sup> ): 14460<br>Original Application No: -<br>Original Start Date: 26/08/2008<br>Expiry Date: 31/03/2017<br>Issue No: 1<br>Version Start Date: 26/08/2008<br>Version End Date: -                            |
| -  | 1363m S  | Status: Active<br>Licence No: 21/57/31/0065<br>Details: Make-up or Top-up Water - High<br>Direct Source: River Ely<br>Point: -<br>Data Type: Point<br>Name: -<br>Easting: 317929<br>Northing: 172729                                                                       | Annual Volume (m <sup>3</sup> ): 26,000<br>Max Daily Volume (m <sup>3</sup> ): 6,000<br>Original Application No: -<br>Original Start Date: 2017-04-01 00:00:00.0000000<br>Expiry Date: 2029-03-31 00:00:00.0000000<br>Issue No: -<br>Version Start Date: -<br>Version End Date: -  |
| -  | 1363m S  | Status: Active<br>Licence No: 21/57/31/0065<br>Details: Make-up or Top-up Water - High<br>Direct Source: River Ely<br>Point: -<br>Data Type: Point<br>Name: -<br>Easting: 317929<br>Northing: 172729                                                                       | Annual Volume (m <sup>3</sup> ): 28,420<br>Max Daily Volume (m <sup>3</sup> ): 28,440<br>Original Application No: -<br>Original Start Date: 2017-04-01 00:00:00.0000000<br>Expiry Date: 2029-03-31 00:00:00.0000000<br>Issue No: -<br>Version Start Date: -<br>Version End Date: - |



| ID | Location | Details                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                             |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1609m NE | Status: Historical<br>Licence No: 21/57/25/0048<br>Details: Evaporative Cooling<br>Direct Source: EAW Surface Water<br>Point: EAST BUTE DOCK<br>Data Type: Point<br>Name: Celsa Manufacturing (UK) Ltd<br>Easting: 319491<br>Northing: 175241                                                                | Annual Volume (m <sup>3</sup> ): 208190<br>Max Daily Volume (m <sup>3</sup> ): 6939<br>Original Application No: -<br>Original Start Date: 01/05/1975<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 30/04/2015<br>Version End Date: -            |
| -  | 1609m NE | Status: Active<br>Licence No: 21/57/25/0048<br>Details: Evaporative Cooling - High<br>Direct Source: -<br>Point: -<br>Data Type: Point<br>Name: -<br>Easting: 319491<br>Northing: 175241                                                                                                                     | Annual Volume (m <sup>3</sup> ): 68,190<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 2015-04-30 00:00:00.0000000<br>Expiry Date: -<br>Issue No: -<br>Version Start Date: -<br>Version End Date: -         |
| -  | 1609m NE | Status: Active<br>Licence No: 21/57/25/0048<br>Details: Evaporative Cooling - High<br>Direct Source: -<br>Point: -<br>Data Type: Point<br>Name: -<br>Easting: 319491<br>Northing: 175241                                                                                                                     | Annual Volume (m <sup>3</sup> ): 71,810<br>Max Daily Volume (m <sup>3</sup> ): 11,198.40<br>Original Application No: -<br>Original Start Date: 2015-04-30 00:00:00.0000000<br>Expiry Date: -<br>Issue No: -<br>Version Start Date: -<br>Version End Date: - |
| -  | 1636m NE | Status: Historical<br>Licence No: 21/57/25/0048<br>Details: Evaporative Cooling<br>Direct Source: EAW Surface Water<br>Point: EAST BUTE DOCK<br>Data Type: Point<br>Name: Celsa Manufacturing (UK) Ltd<br>Easting: 319520<br>Northing: 175250                                                                | Annual Volume (m <sup>3</sup> ): 68190<br>Max Daily Volume (m <sup>3</sup> ): 2273<br>Original Application No: -<br>Original Start Date: 01/05/1975<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 16/08/2004<br>Version End Date: -             |
| -  | 1782m N  | Status: Historical<br>Licence No: 21/57/25/0076<br>Details: General use relating to Secondary Category (Very Low Loss)<br>Direct Source: EAW Surface Water<br>Point: RIVER TAFF AT WOOD STREET (MILLENNIUM PLAZA)<br>Data Type: Point<br>Name: Cardiff County Council<br>Easting: 317900<br>Northing: 175940 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 21/05/2003<br>Expiry Date: 31/03/2004<br>Issue No: 1<br>Version Start Date: 21/05/2003<br>Version End Date: -             |



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

## 5.8 Potable abstractions

**Records within 2000m**

**0**

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

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

## 5.9 Source Protection Zones

**Records within 500m**

**0**

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

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

## 5.10 Source Protection Zones (confined aquifer)

**Records within 500m**

**0**

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

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

## 6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

### 6.1 Water Network (OS MasterMap)

Records within 250m

1

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 75**

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

*This data is sourced from the Ordnance Survey.*



## 6.2 Surface water features

### Records within 250m

**2**

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 75**

*This data is sourced from the Ordnance Survey.*

## 6.3 WFD Surface water body catchments

### Records on site

**1**

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

Features are displayed on the Hydrology map on **page 75**

| ID | Location | Type               | Water body catchment                   | Water body ID  | Operational catchment | Management catchment |
|----|----------|--------------------|----------------------------------------|----------------|-----------------------|----------------------|
| 5  | On site  | River WB catchment | Taff - conf Rhondda R to Castle Street | GB109057027270 | Taff d s Cynon        | South East Valleys   |

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

## 6.4 WFD Surface water bodies

### Records identified

**2**

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.

Features are displayed on the Hydrology map on **page 75**

| ID | Location | Type | Name        | Water body ID | Overall rating | Chemical rating | Ecological rating | Year |
|----|----------|------|-------------|---------------|----------------|-----------------|-------------------|------|
| 3  | On site  | Lake | Cardiff Bay | GB30947042    | Moderate       | Good            | Moderate          | 2016 |



| ID | Location | Type  | Name                                   | Water body ID  | Overall rating | Chemical rating | Ecological rating | Year |
|----|----------|-------|----------------------------------------|----------------|----------------|-----------------|-------------------|------|
| 4  | On site  | River | Taff - conf Rhondda R to Castle Street | GB109057027270 | Moderate       | Fail            | Moderate          | 2016 |

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

## 6.5 WFD Groundwater bodies

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>1</b> |
|------------------------|----------|

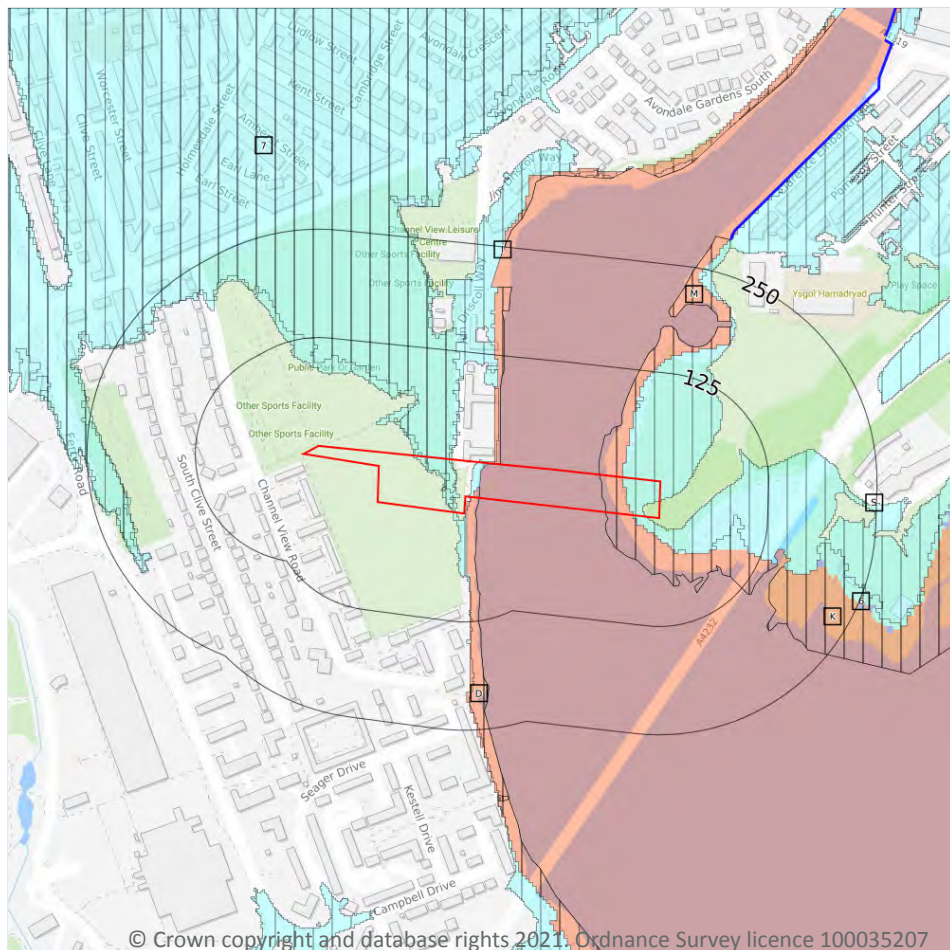
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

Features are displayed on the Hydrology map on **page 75**

| ID | Location | Name                                                                                  | Water body ID  | Overall rating | Chemical rating | Quantitative | Year |
|----|----------|---------------------------------------------------------------------------------------|----------------|----------------|-----------------|--------------|------|
| 2  | On site  | SE Valleys<br>Southern Devonian<br>Old Red Sandstone<br>& Triassic Mercia<br>Mudstone | GB40902G201500 | Good           | Good            | Good         | 2016 |

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

## 7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

### 7.1 Risk of flooding from rivers and the sea

#### Records within 50m

39

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 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on **page 78**

| Distance       | Flood risk category |
|----------------|---------------------|
| <b>On site</b> | <b>High</b>         |
| 0 - 50m        | High                |

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

## 7.2 Historical Flood Events

|                            |          |
|----------------------------|----------|
| <b>Records within 250m</b> | <b>0</b> |
|----------------------------|----------|

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

|                            |          |
|----------------------------|----------|
| <b>Records within 250m</b> | <b>0</b> |
|----------------------------|----------|

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

|                            |           |
|----------------------------|-----------|
| <b>Records within 250m</b> | <b>11</b> |
|----------------------------|-----------|

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

Features are displayed on the River and coastal flooding map on **page 78**

| ID | Location |                                     |
|----|----------|-------------------------------------|
| 6  | On site  | Area benefiting from flood defences |
| 7  | On site  | Area benefiting from flood defences |
| B  | On site  | Area benefiting from flood defences |
| C  | On site  | Area benefiting from flood defences |
| D  | On site  | Area benefiting from flood defences |

| ID | Location |                                     |
|----|----------|-------------------------------------|
| E  | On site  | Area benefiting from flood defences |
| F  | 65m N    | Area benefiting from flood defences |
| K  | 148m SE  | Area benefiting from flood defences |
| M  | 190m N   | Area benefiting from flood defences |
| I  | 240m N   | Area benefiting from flood defences |
| S  | 246m E   | Area benefiting from flood defences |

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

## 7.5 Flood Storage Areas

Records within 250m

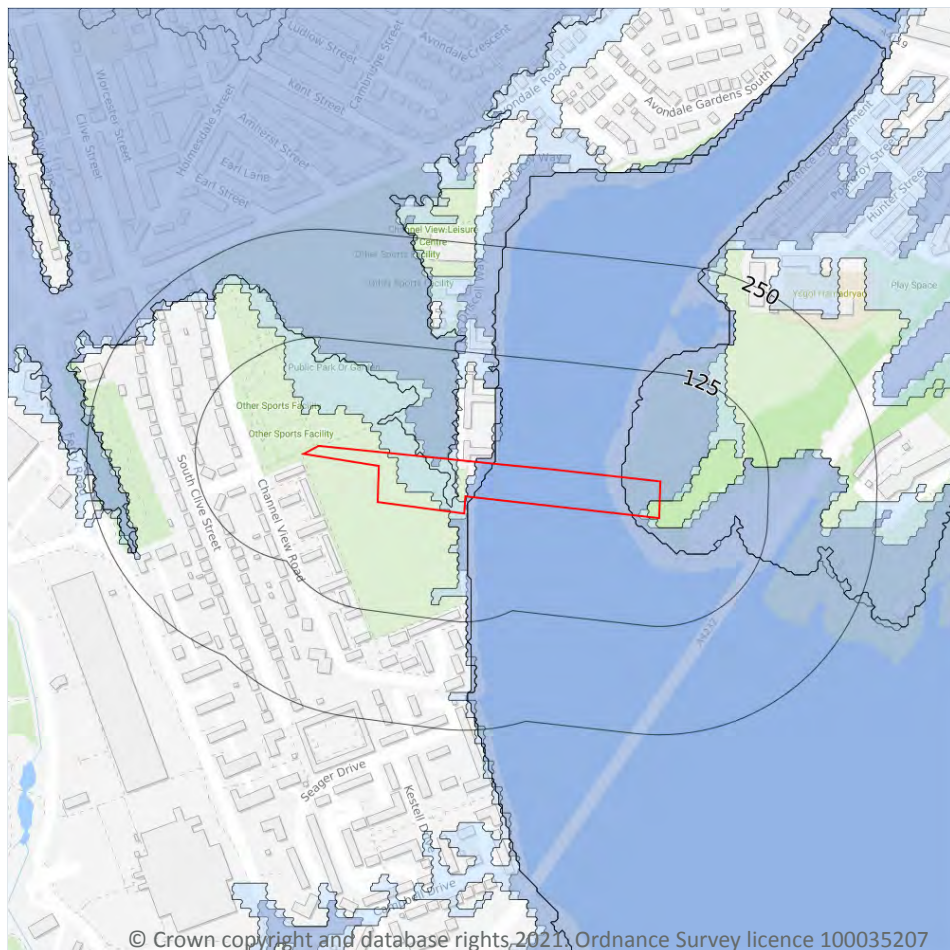
0

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

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



## River and coastal flooding - Flood Zones



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

### 7.6 Flood Zone 2

#### Records within 50m

1

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

Features are displayed on the River and coastal flooding map on **page 78**

| Location | Type                             |
|----------|----------------------------------|
| On site  | 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

**1**

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 78**

| Location | Type                      |
|----------|---------------------------|
| On site  | Zone 3 - (Fluvial Models) |

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





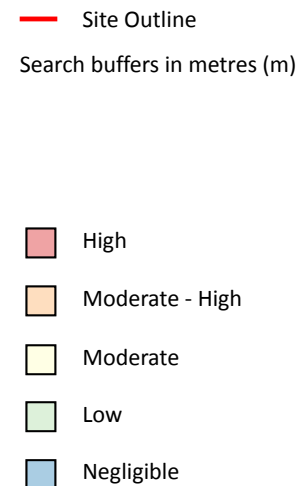
The table below shows the maximum flood depths for a range of return periods for the site.

| Return period  | Maximum modelled depth |
|----------------|------------------------|
| 1 in 1000 year | Greater than 1.0m      |
| 1 in 250 year  | Between 0.3m and 1.0m  |
| 1 in 100 year  | Between 0.3m and 1.0m  |
| 1 in 30 year   | Negligible             |

*This data is sourced from Ambiental Risk Analytics.*



## 9 Groundwater flooding



### 9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

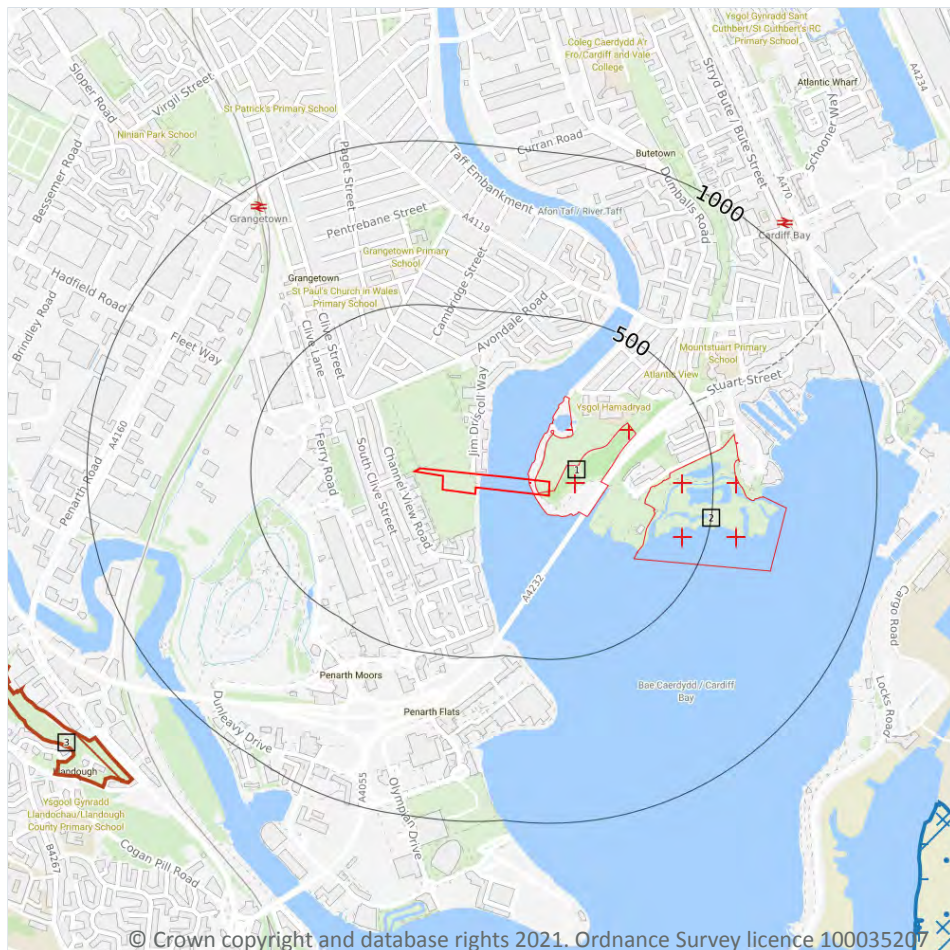
Low

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 85**

*This data is sourced from Ambiantal Risk Analytics.*

## 10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- × Conserved wetland sites (Ramsar sites)
- + Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- + Local Nature Reserves (LNR)
- ▨ Designated Ancient Woodland

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

#### Records within 2000m

2

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 re-notified 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 86**

| ID | Location | Name                 | Data source             |
|----|----------|----------------------|-------------------------|
| -  | 1307m W  | Cwm Cydfin, Leckwith | Natural Resources Wales |



| ID | Location | Name           | Data source             |
|----|----------|----------------|-------------------------|
| 9  | 1513m SE | Severn Estuary | Natural Resources Wales |

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

## 10.2 Conserved wetland sites (Ramsar sites)

### Records within 2000m

**1**

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.

Features are displayed on the Environmental designations map on **page 86**



| ID | Location | Site                                                                                   | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----|----------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B  | 1512m SE | Name: Severn Estuary (Wales)<br>Site status: -<br>Data source: Natural Resources Wales | <p>Overview: The estuary's classic funnel shape, unique in Britain, is a factor causing the Severn to have the second-largest tidal range in the world (after the Bay of Fundy, Canada). This tidal regime results in plant and animal communities typical of the extreme physical conditions of liquid mud and tide swept sand and rock. The species-poor invertebrate community includes high densities of ragworms, lugworms and other invertebrates forming an important food source for passage and wintering waders. A further consequence of the large tidal range is the extensive intertidal zone, one of the largest in the UK, comprising mudflats, sand banks, shingle, and rocky platforms. Glassworts and annual sea-blite colonise the open mud, with beds of all three species of eelgrass <i>Zostera</i> occurring on more sheltered mud and sandbanks. Large expanses of common cord-grass also occur on the outer marshes. Heavily grazed saltmarsh fringes the estuary with a range of saltmarsh types present. The middle marsh sward is dominated by common saltmarsh-grass with typical associated species. In the upper marsh, red fescue and saltmarsh rush become more prominent.</p> <p>Ramsar criteria: Ramsar criterion 1 Due to immense tidal range (second-largest in world), this affects both the physical environment and biological communities. Habitats Directive Annex I features present on the pSAC include: H1110 Sandbanks which are slightly covered by sea water all the time H1130 Estuaries H1140 Mudflats and sandflats not covered by seawater at low tide H1330 Atlantic salt meadows (<i>Glauco-Puccinellietalia maritima</i>)</p> <p>Ramsar criterion 3 Due to unusual estuarine communities, reduced diversity and high productivity.</p> <p>Ramsar criterion 4 This site is important for the run of migratory fish between sea and river via estuary. Species include Salmon <i>Salmo salar</i>, sea trout <i>S. trutta</i>, sea lamprey <i>Petromyzon marinus</i>, river lamprey <i>Lampetra fluviatilis</i>, allis shad <i>Alosa alosa</i>, twaite shad <i>A. fallax</i>, and eel <i>Anguilla anguilla</i>. It is also of particular importance for migratory birds during spring and autumn. Ramsar criterion 8</p> <p>The fish of the whole estuarine and river system is one of the most diverse in Britain, with over 110 species recorded. Salmon <i>Salmo salar</i>, sea trout <i>S. trutta</i>, sea lamprey <i>Petromyzon marinus</i>, river lamprey <i>Lampetra fluviatilis</i>, allis shad <i>Alosa alosa</i>, twaite shad <i>A. fallax</i>, and eel <i>Anguilla anguilla</i> use the Severn Estuary as a key migration route to their spawning grounds in the many tributaries that flow into the estuary. The site is important as a feeding and nursery ground for many fish species particularly allis shad <i>Alosa alosa</i> and twaite shad <i>A. fallax</i> which feed on mysid shrimps in the salt wedge.</p> |

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



### 10.3 Special Areas of Conservation (SAC)

#### Records within 2000m

**1**

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.

Features are displayed on the Environmental designations map on **page 86**

| ID | Location | Name                   | Features of interest                                                                                                                                                                                                                         | Habitat description                                                                                                            | Data source             |
|----|----------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 8  | 1513m SE | Severn Estuary (Wales) | Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Reefs; Glasswort and other annuals colonising mud and sand; Cord-grass swards; Atlantic salt meadows; Shifting dunes; Sea lamprey; River lamprey; Allis shad; Twaite shad. | Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins) | Natural Resources Wales |

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

### 10.4 Special Protection Areas (SPA)

#### Records within 2000m

**1**

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

Features are displayed on the Environmental designations map on **page 86**

| ID | Location | Name                   | Species of interest                                                                         | Habitat description                                                                                                                                                                           | Data source |
|----|----------|------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| B  | 1513m SE | Severn Estuary (Wales) | Tundra swan; Common shelduck; Gadwall; Common redshank; Greater white-fronted goose; Dunlin | Coastal sand dunes, Sand beaches, Machair; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Improved grassland; Salt marshes, Salt pastures, Salt steppes |             |

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

## 10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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

## 10.6 Local Nature Reserves (LNR)

Records within 2000m

2

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.

Features are displayed on the Environmental designations map on **page 86**

| ID | Location | Name                                    | Data source             |
|----|----------|-----------------------------------------|-------------------------|
| 1  | On site  | CARDIFF BAY WETLANDS AND HAMADRYAD PARK | Natural Resources Wales |
| 2  | 294m E   | CARDIFF BAY WETLANDS AND HAMADRYAD PARK | Natural Resources Wales |

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

## 10.7 Designated Ancient Woodland

Records within 2000m

14

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 86**

| ID | Location | Name    | Woodland Type                  |
|----|----------|---------|--------------------------------|
| 3  | 1269m SW | Unknown | Restored Ancient Woodland Site |
| -  | 1330m W  | Unknown | Ancient Semi Natural Woodland  |
| -  | 1377m W  | Unknown | Ancient Semi Natural Woodland  |
| -  | 1388m W  | Unknown | Ancient Semi Natural Woodland  |
| -  | 1404m W  | Unknown | Ancient Semi Natural Woodland  |

| ID | Location | Name    | Woodland Type                  |
|----|----------|---------|--------------------------------|
| -  | 1494m W  | Unknown | Ancient Semi Natural Woodland  |
| -  | 1640m W  | Unknown | Ancient Semi Natural Woodland  |
| -  | 1654m W  | Unknown | Restored Ancient Woodland Site |
| -  | 1777m W  | Unknown | Restored Ancient Woodland Site |
| -  | 1830m S  | Unknown | Ancient Semi Natural Woodland  |
| -  | 1891m W  | Unknown | Ancient Semi Natural Woodland  |
| -  | 1940m W  | Unknown | Ancient Semi Natural Woodland  |
| -  | 1970m W  | Unknown | Restored Ancient Woodland Site |
| -  | 1984m W  | Unknown | Ancient Semi Natural Woodland  |

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

## 10.8 Biosphere Reserves

**Records within 2000m**

**0**

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

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

## 10.9 Forest Parks

**Records within 2000m**

**0**

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

*This data is sourced from the Forestry Commission.*

## 10.10 Marine Conservation Zones

**Records within 2000m**

**0**

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

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



## 10.11 Green Belt

Records within 2000m

0

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

Records within 2000m

0

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

*This data is sourced from Natural England.*

## 10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

## 10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

*This data is sourced from Natural England.*

## 10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was



closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

*This data is sourced from Natural England.*

## 10.16 Nitrate Vulnerable Zones

Records within 2000m

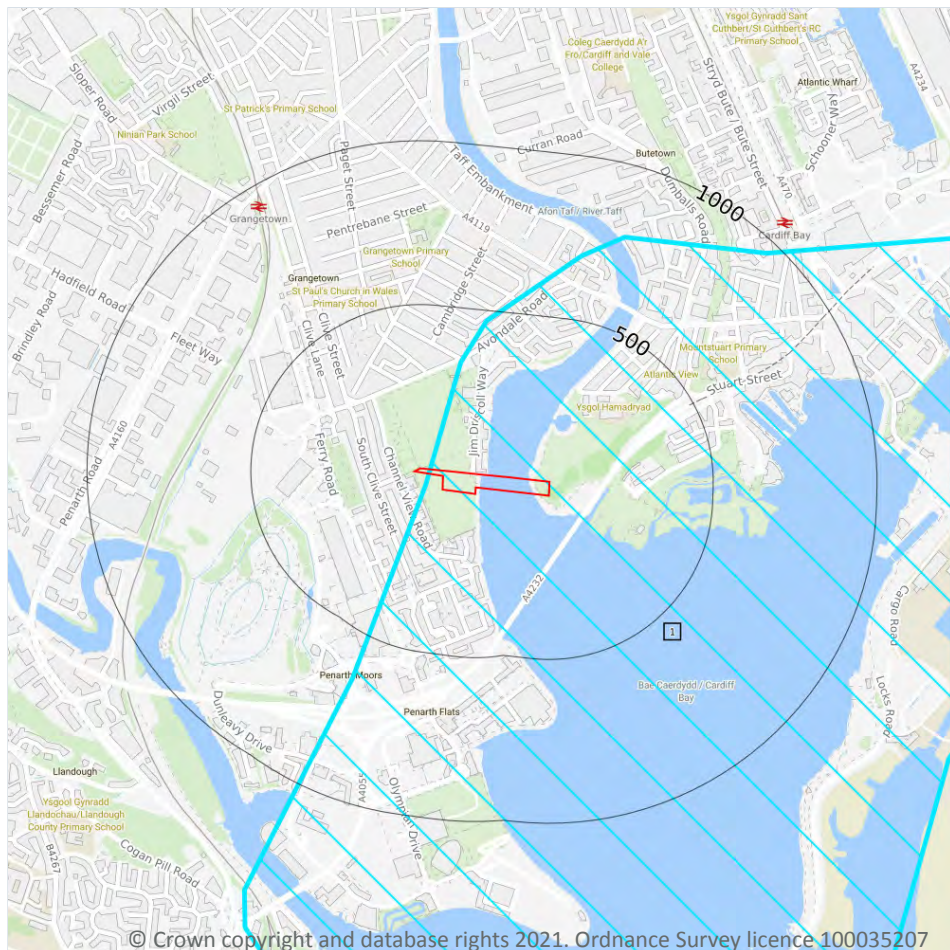
0

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

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



## SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

### 10.17 SSSI Impact Risk Zones

#### Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 94**

| ID | Location | Type of developments requiring consultation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | <p>All applications - All Planning Applications (Except Householder) Outside Or Extending Outside Existing Settlements/urban Areas Affecting Greenspace, Farmland, Semi Natural Habitats Or Landscape Features Such As Trees, Hedges, Streams, Rural Buildings/structures</p> <p>Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals</p> <p>Wind and Solar - Solar schemes with footprint &gt; 0.5ha, all wind turbines</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil &amp; gas exploration/extraction.</p> <p>Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is &gt; 1,000m<sup>2</sup> or footprint exceeds 0.2ha</p> <p>Residential - Residential development of 10 units or more.</p> <p>Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units</p> <p>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> |

*This data is sourced from Natural England.*

## 10.18 SSSI Units

|                      |   |
|----------------------|---|
| Records within 2000m | 0 |
|----------------------|---|

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

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



## 11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

### 11.1 World Heritage Sites

Records within 250m

0

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

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

## 11.2 Area of Outstanding Natural Beauty

**Records within 250m****0**

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

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

## 11.3 National Parks

**Records within 250m****0**

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

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

## 11.4 Listed Buildings

**Records within 250m****0**

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

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

## 11.5 Conservation Areas

**Records within 250m****0**

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



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

## 11.6 Scheduled Ancient Monuments

### Records within 250m

**1**

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.

Features are displayed on the Visual and cultural designations map on **page 96**

| ID | Location | Ancient monument name     | Reference number |
|----|----------|---------------------------|------------------|
| 1  | 33m SE   | The Wreck of the "Louisa" | 1699             |

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

## 11.7 Registered Parks and Gardens

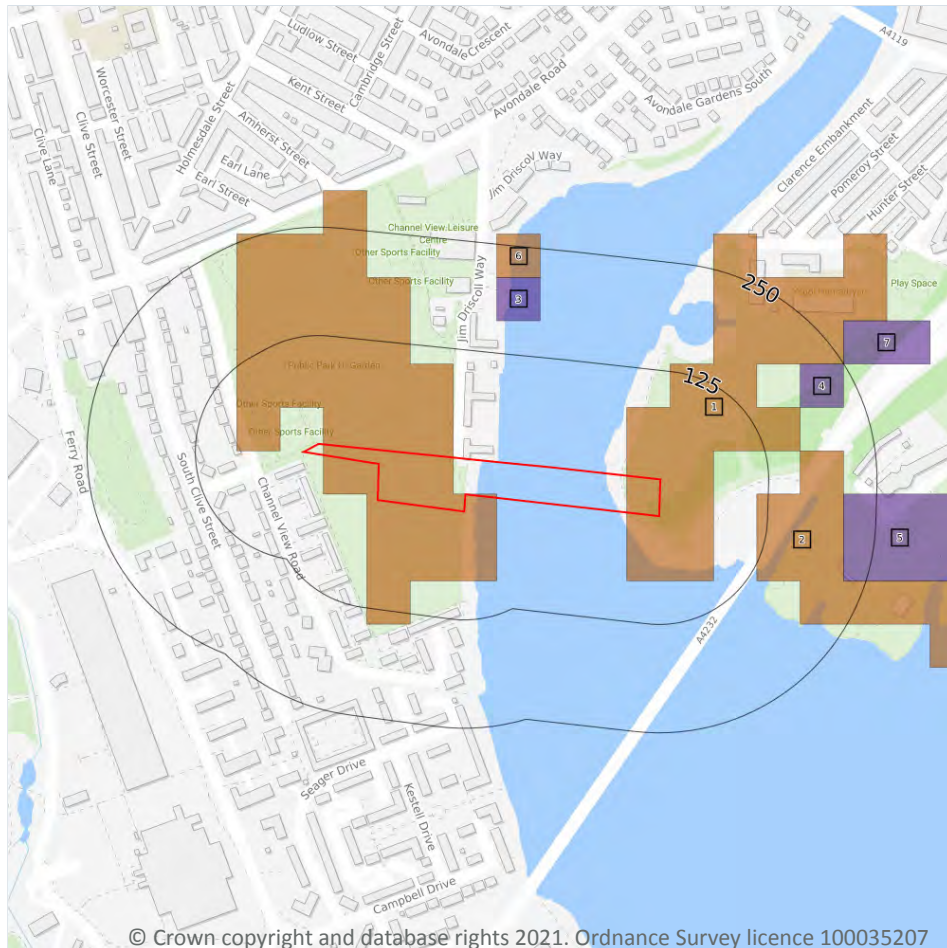
### Records within 250m

**0**

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

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

## 12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Timber felling licences
- Open Access land

### 12.1 Agricultural Land Classification

Records within 250m

8

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 99**

| ID | Location | Classification | Description                         |
|----|----------|----------------|-------------------------------------|
| 1  | On site  | Grade 1        | Excellent quality agricultural land |
| A  | On site  | Grade 1        | Excellent quality agricultural land |
| 2  | 112m E   | Grade 1        | Excellent quality agricultural land |



| ID | Location | Classification | Description                         |
|----|----------|----------------|-------------------------------------|
| 3  | 162m N   | Grade 5        | Very poor quality agricultural land |
| 4  | 181m NE  | Grade 5        | Very poor quality agricultural land |
| 5  | 212m E   | Grade 5        | Very poor quality agricultural land |
| 6  | 212m N   | Grade 1        | Excellent quality agricultural land |
| 7  | 250m NE  | Grade 5        | Very poor quality agricultural land |

*This data is sourced from Natural Resources Wales.*

## 12.2 Open Access Land

Records within 250m

0

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

0

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

*This data is sourced from the Forestry Commission.*

## 12.4 Environmental Stewardship Schemes

Records within 250m

0

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

*This data is sourced from Natural England.*



## 12.5 Countryside Stewardship Schemes

Records within 250m

0

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

*This data is sourced from Natural England.*



## 13 Habitat designations

### 13.1 Priority Habitat Inventory

Records within 250m

0

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

*This data is sourced from Natural England.*

### 13.2 Habitat Networks

Records within 250m

0

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

0

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

*This data is sourced from Natural England.*

### 13.4 Limestone Pavement Orders

Records within 250m

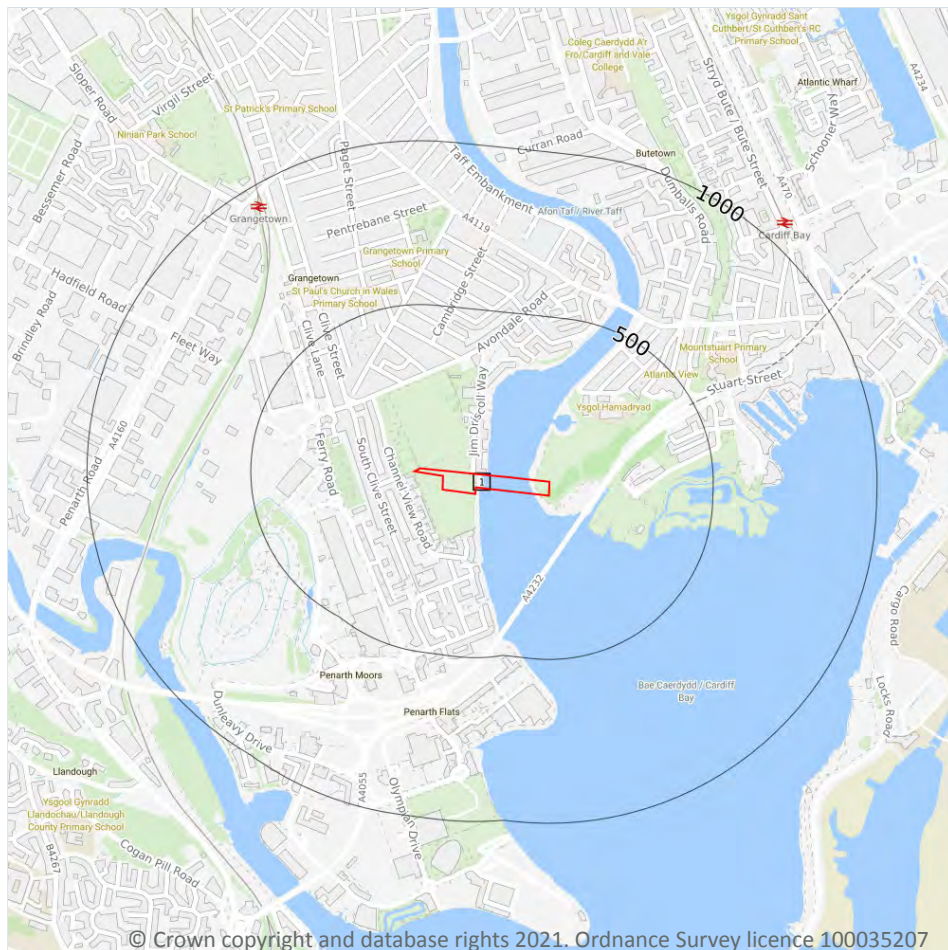
0

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

*This data is sourced from Natural England.*



## 14 Geology 1:10,000 scale - Availability



— Site Outline  
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

### 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 provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 103**

| ID | Location | Artificial  | Superficial | Bedrock     | Mass movement | Sheet No. |
|----|----------|-------------|-------------|-------------|---------------|-----------|
| 1  | On site  | No coverage | No coverage | No coverage | No coverage   | NoCov     |

*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.*



## Geology 1:10,000 scale - Superficial

### 14.3 Superficial geology (10k)

Records within 500m

0

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

0

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.*



## Geology 1:10,000 scale - Bedrock

### 14.5 Bedrock geology (10k)

Records within 500m

0

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)

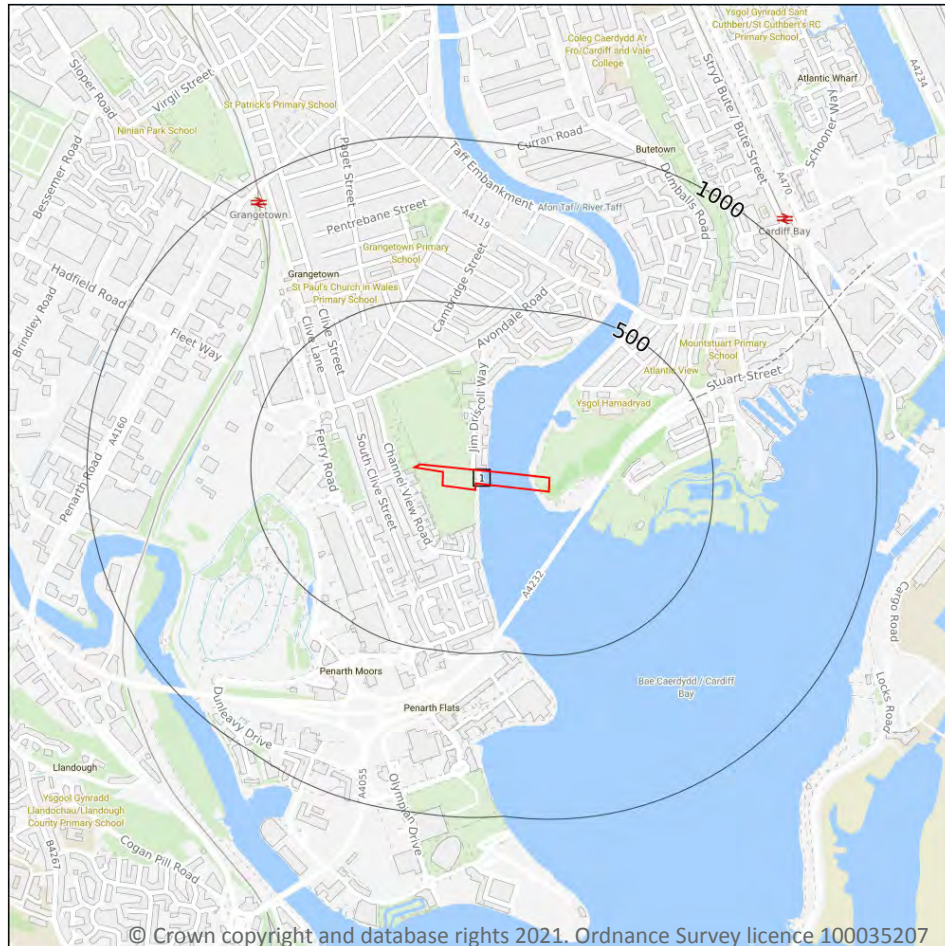
Records within 500m

0

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

*This data is sourced from the British Geological Survey.*

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



— Site Outline  
Search buffers in metres (m)

☐ Geological map tile

### 15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme. Where 50k data is not available, this area has been filled in with 625k scale data.

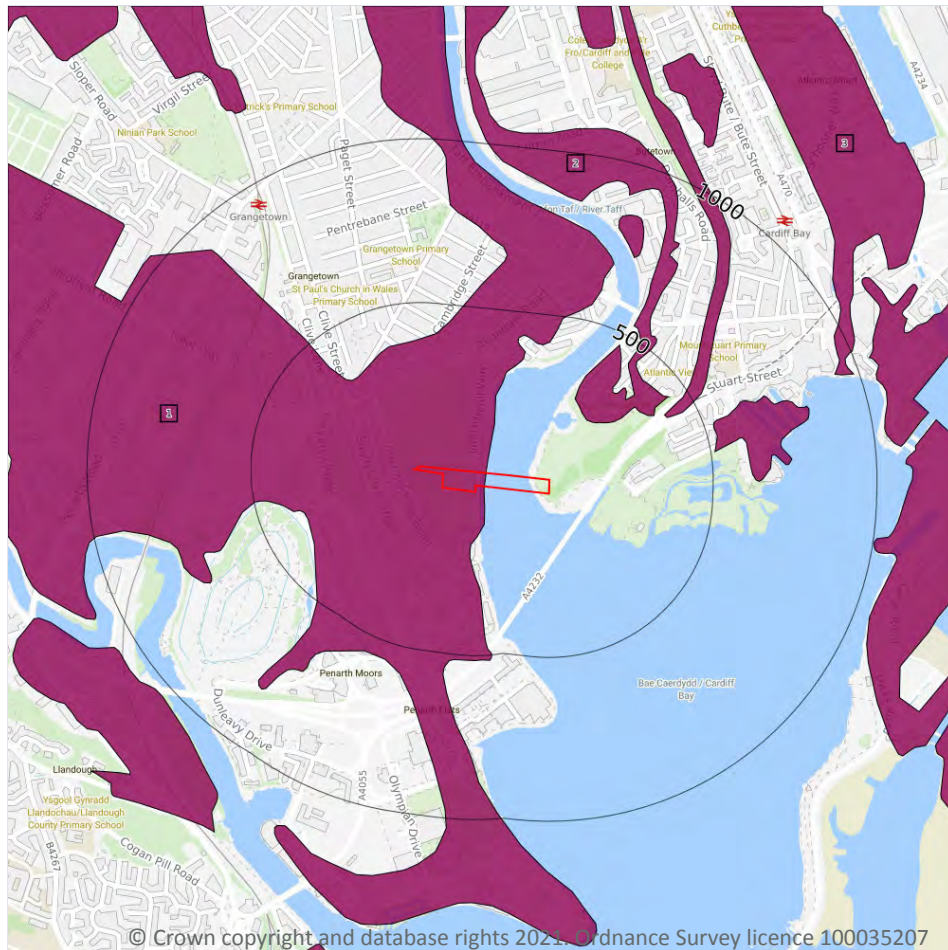
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 107**

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No.        |
|----|----------|------------|-------------|---------|---------------|------------------|
| 1  | On site  | Full       | Full        | Full    | Full          | EW263_cardiff_v4 |

This data is sourced from the British Geological Survey.



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



- Site Outline**
- Search buffers in metres (m)**
- Made ground
  - Worked ground
  - Infilled ground
  - Disturbed ground
  - Landscaped ground

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

#### Records within 500m

3

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 108**

| ID | Location | LEX Code  | Description             | Rock description   |
|----|----------|-----------|-------------------------|--------------------|
| 1  | On site  | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 2  | 215m NE  | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 3  | 403m NE  | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |

*This data is sourced from the British Geological Survey.*



### 15.3 Artificial ground permeability (50k)

**Records within 50m****1**

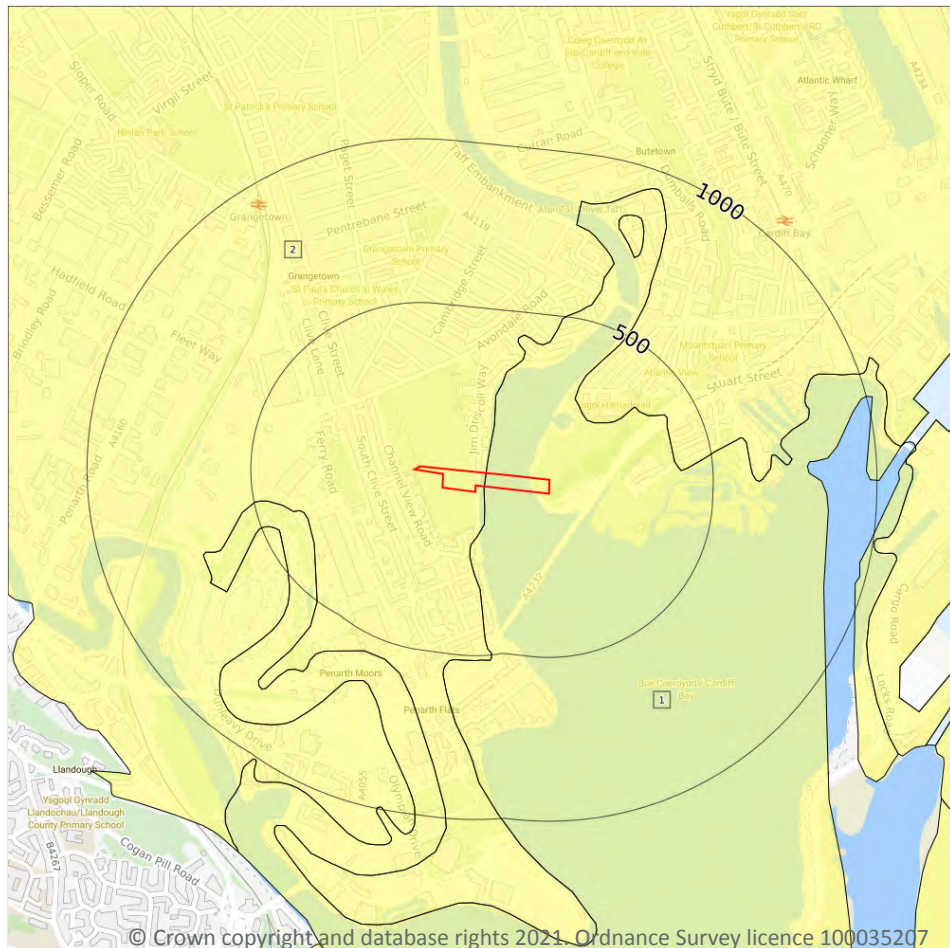
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

| Location | Flow type | Maximum permeability | Minimum permeability |
|----------|-----------|----------------------|----------------------|
| On site  | Mixed     | Very High            | Low                  |

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Superficial



**Site Outline**

Search buffers in metres (m)

**Landslip (50k)**

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

### 15.4 Superficial geology (50k)

#### Records within 500m

2

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 110**

| ID | Location | LEX Code | Description         | Rock description    |
|----|----------|----------|---------------------|---------------------|
| 1  | On site  | TFD-XCZS | TIDAL FLAT DEPOSITS | CLAY, SILT AND SAND |
| 2  | On site  | TFD-XCZS | TIDAL FLAT DEPOSITS | CLAY, SILT AND SAND |

*This data is sourced from the British Geological Survey.*



## 15.5 Superficial 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 any superficial deposits (the zone between the land surface and the water table).

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

*This data is sourced from the British Geological Survey.*

## 15.6 Landslip (50k)

**Records within 500m****0**

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

*This data is sourced from the British Geological Survey.*

## 15.7 Landslip permeability (50k)

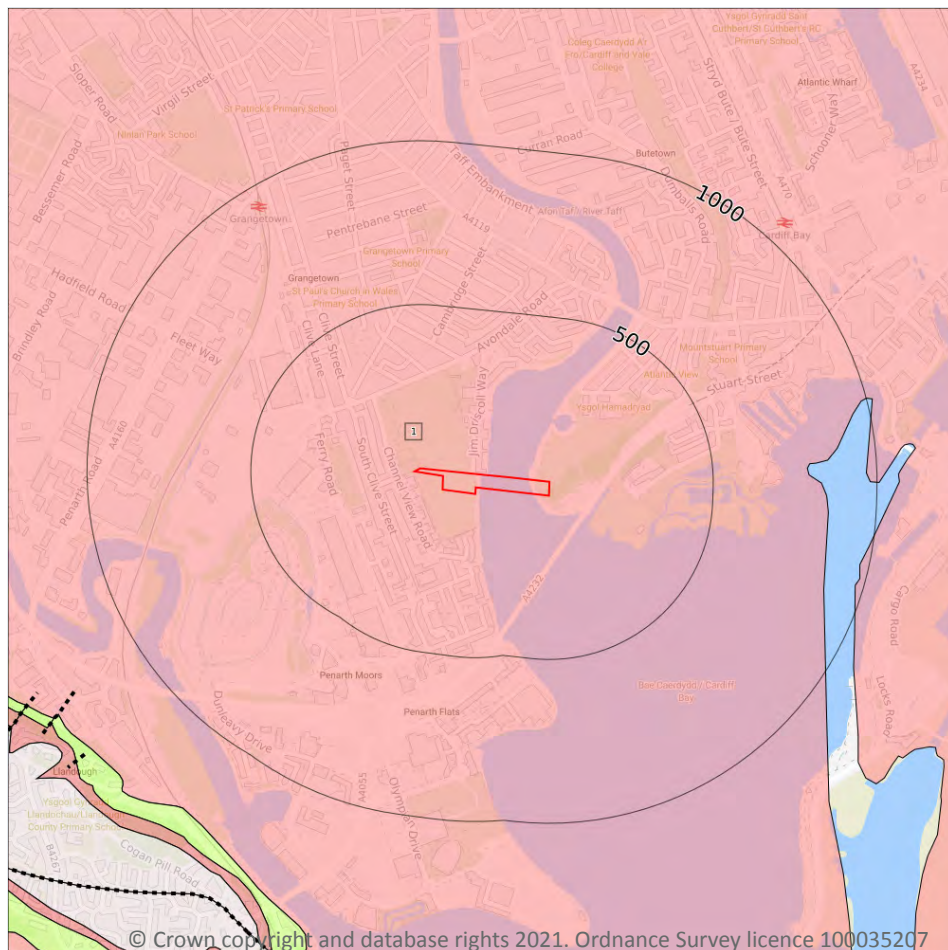
**Records within 50m****0**

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

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

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

### 15.8 Bedrock geology (50k)

#### Records within 500m

1

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 112**

| ID | Location | LEX Code | Description                      | Rock age |
|----|----------|----------|----------------------------------|----------|
| 1  | On site  | MMG-MDST | MERCIA MUDSTONE GROUP - MUDSTONE | -        |

*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  | Low                  | Low                  |

*This data is sourced from the British Geological Survey.*

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

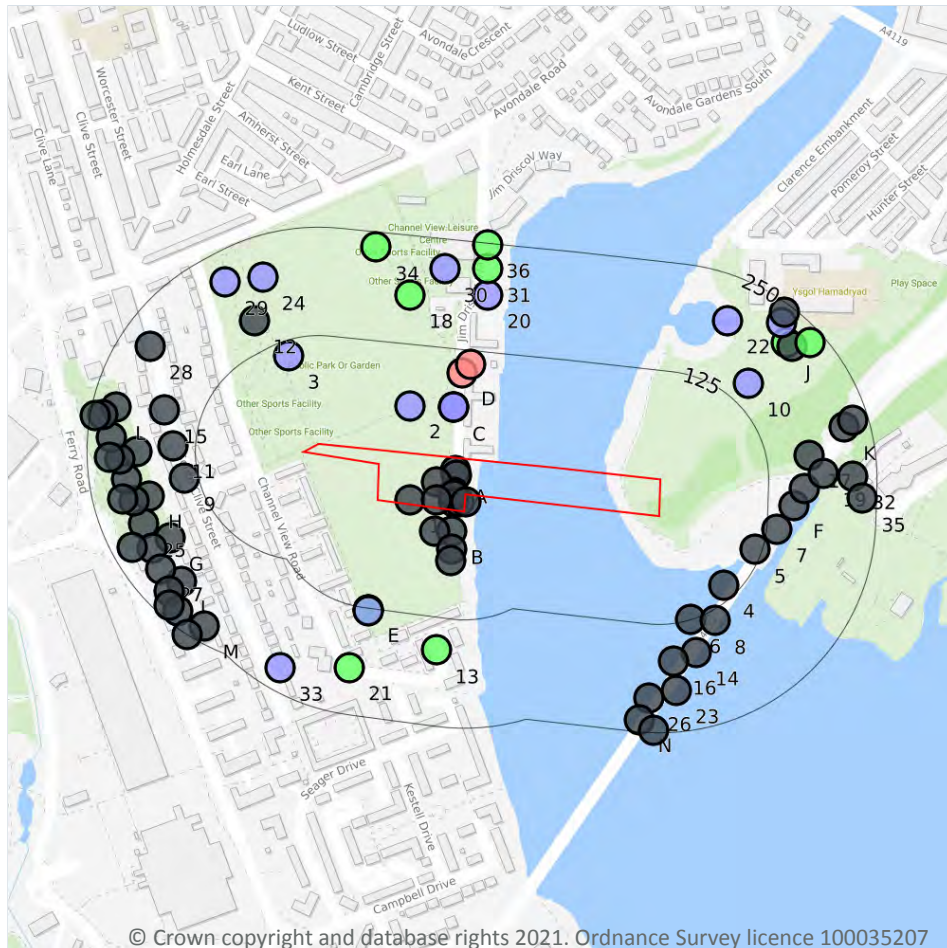
**Records within 500m****0**

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

*This data is sourced from the British Geological Survey.*



## 16 Boreholes



— Site Outline  
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

### 16.1 BGS Boreholes

Records within 250m

88

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 114**

| ID | Location | Grid reference | Name                                            | Length | Confidential | Web link |
|----|----------|----------------|-------------------------------------------------|--------|--------------|----------|
| 1  | On site  | 318050 174093  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY 05 M | -      | Y            | N/A      |
| A  | On site  | 318102 174127  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY P1 M | -      | Y            | N/A      |



| ID | Location | Grid reference | Name                                                    | Length | Confidential | Web link                 |
|----|----------|----------------|---------------------------------------------------------|--------|--------------|--------------------------|
| A  | On site  | 318103 174122  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY P2 M         | -      | Y            | N/A                      |
| A  | On site  | 318100 174091  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY P3 M         | -      | Y            | N/A                      |
| A  | On site  | 318100 174102  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY 01 M         | -      | Y            | N/A                      |
| A  | On site  | 318107 174091  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY 02 M         | -      | Y            | N/A                      |
| A  | On site  | 318080 174114  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY 06 M         | -      | Y            | N/A                      |
| A  | On site  | 318100 174099  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY 08 M         | -      | Y            | N/A                      |
| A  | On site  | 318080 174093  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY 04 M         | -      | Y            | N/A                      |
| A  | 1m E     | 318114 174091  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY 03 M         | -      | Y            | N/A                      |
| B  | 25m S    | 318098 174057  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY P4 M         | -      | Y            | N/A                      |
| B  | 27m S    | 318078 174057  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY 09 M         | -      | Y            | N/A                      |
| B  | 45m S    | 318098 174036  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY 07 M         | -      | Y            | N/A                      |
| 2  | 55m N    | 318050 174202  | CARDIFF BAY BARRAGE GROUNDWATER CONTROL SYSTEM BH10/OB1 | 4.0    | N            | <a href="#">19495359</a> |
| C  | 58m N    | 318100 174200  | THE MARL, GRANGETOWN                                    | -2.0   | N            | <a href="#">380236</a>   |
| C  | 58m N    | 318100 174200  | THE MARL, GRANGETOWN MP4                                | -2.0   | N            | <a href="#">380232</a>   |
| C  | 58m N    | 318100 174200  | THE MARL, GRANGETOWN MP3                                | -2.0   | N            | <a href="#">380231</a>   |
| B  | 58m S    | 318097 174023  | CARDIFF BAY BARRAGE PILOT DEWATERING STUDY P5 M         | -      | Y            | N/A                      |
| D  | 98m N    | 318110 174240  | BOWLES WHARF                                            | 106.68 | N            | <a href="#">380223</a>   |
| 3  | 108m N   | 317910 174260  | THE MARL. NO.32                                         | 7.62   | N            | <a href="#">379917</a>   |
| 4  | 109m SE  | 318412 173995  | BUTETOWN LINK CARDIFF BTL17                             | -      | Y            | N/A                      |
| D  | 109m N   | 318120 174250  | BOWIES WHARF                                            | 106.68 | N            | <a href="#">379887</a>   |
| 5  | 117m E   | 318448 174036  | BUTETOWN LINK CARDIFF BTL18                             | -      | Y            | N/A                      |



| ID | Location | Grid reference | Name                                       | Length | Confidential | Web link                 |
|----|----------|----------------|--------------------------------------------|--------|--------------|--------------------------|
| 6  | 125m S   | 318373 173955  | BUTETOWN LINK CARDIFF BTL15                | -      | Y            | N/A                      |
| E  | 126m S   | 318002 173967  | THE MARL BH 278                            | 18.0   | N            | <a href="#">19496572</a> |
| E  | 127m S   | 318002 173966  | THE MARL BH 279                            | 12.5   | N            | <a href="#">19496574</a> |
| E  | 128m S   | 318002 173965  | THE MARL BH 280                            | 4.0    | N            | <a href="#">19496576</a> |
| 7  | 137m E   | 318473 174059  | BUTETOWN LINK CARDIFF BTL19                | -      | Y            | N/A                      |
| 8  | 137m SE  | 318402 173954  | BUTETOWN LINK CARDIFF BTL16                | -      | Y            | N/A                      |
| 9  | 140m W   | 317790 174119  | RE 31 PROSPECT PLACE PHASE 2 WS1           | -      | Y            | N/A                      |
| 10 | 150m NE  | 318440 174228  | SOUTH BUTETOWN LAND REDAMATION A           | 7.6    | N            | <a href="#">379979</a>   |
| 11 | 151m W   | 317776 174156  | RE 31 PROSPECT PLACE PHASE 2 HD2           | -      | Y            | N/A                      |
| F  | 155m E   | 318493 174087  | BUTETOWN LINK CARDIFF SP2                  | -      | Y            | N/A                      |
| 12 | 160m NW  | 317870 174300  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP37 | -      | Y            | N/A                      |
| 13 | 163m S   | 318080 173920  | DEVELOPMENT AT THE MARL. 1                 | 20.57  | N            | <a href="#">380044</a>   |
| 14 | 163m S   | 318380 173917  | BUTETOWN LINK CARDIFF BTL14                | -      | Y            | N/A                      |
| F  | 167m E   | 318505 174106  | BUTETOWN LINK CARDIFF BTL20                | -      | Y            | N/A                      |
| 15 | 167m W   | 317767 174197  | RE 31 PROSPECT PLACE PHASE 2 WS3           | -      | Y            | N/A                      |
| 16 | 168m S   | 318354 173907  | BUTETOWN LINK CARDIFF BTL13                | -      | Y            | N/A                      |
| 17 | 174m E   | 318510 174145  | BUTETOWN LINK CARDIFF BTL21                | -      | Y            | N/A                      |
| 18 | 182m N   | 318050 174330  | GRANGETOWN BH4                             | 22.0   | N            | <a href="#">380114</a>   |
| G  | 183m SW  | 317773 174050  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP17 | -      | Y            | N/A                      |
| H  | 185m W   | 317749 174098  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP13 | -      | Y            | N/A                      |
| 19 | 189m E   | 318527 174124  | BUTETOWN LINK CARDIFF SP3                  | -      | Y            | N/A                      |
| 20 | 191m N   | 318140 174330  | GRANGETOWN BH3                             | 9.0    | N            | <a href="#">380113</a>   |
| H  | 192m W   | 317735 174149  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP9  | -      | Y            | N/A                      |
| 21 | 196m S   | 317980 173900  | CHANNEL VIEW ROAD                          | 25.76  | N            | <a href="#">379934</a>   |
| 22 | 199m NE  | 318416 174300  | BUTETOWN SEWER DIVERSION 3                 | 8.5    | N            | <a href="#">380188</a>   |
| 23 | 202m S   | 318357 173874  | BUTETOWN LINK CARDIFF BTL12                | -      | Y            | N/A                      |



| ID | Location | Grid reference | Name                                                    | Length | Confidential | Web link                 |
|----|----------|----------------|---------------------------------------------------------|--------|--------------|--------------------------|
| 24 | 203m N   | 317880 174350  | THE MARL. NO.33                                         | 7.62   | N            | <a href="#">379918</a>   |
| 25 | 203m SW  | 317742 174066  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP16              | -      | Y            | N/A                      |
| H  | 203m W   | 317732 174092  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP14              | -      | Y            | N/A                      |
| I  | 206m SW  | 317786 173999  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP21              | -      | Y            | N/A                      |
| H  | 207m W   | 317723 174117  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP12              | -      | Y            | N/A                      |
| G  | 207m SW  | 317752 174038  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP18              | -      | Y            | N/A                      |
| 26 | 210m S   | 318325 173865  | BUTETOWN LINK CARDIFF BTL11                             | -      | Y            | N/A                      |
| H  | 212m W   | 317715 174140  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP10              | -      | Y            | N/A                      |
| 27 | 213m SW  | 317762 174014  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP20              | -      | Y            | N/A                      |
| J  | 215m NE  | 318484 174275  | CARDIFF BAY BARRAGE, GROUNDWATER CONTROL SYSTEM BH1/OB1 | 20.0   | N            | <a href="#">19494776</a> |
| H  | 215m W   | 317719 174094  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP15              | -      | Y            | N/A                      |
| 28 | 215m NW  | 317750 174271  | RE 31 PROSPECT PLACE PHASE 2 WS5                        | -      | Y            | N/A                      |
| 29 | 216m NW  | 317837 174345  | LONG TERM MONITORING (GAS) BH TP007                     | 2.8    | N            | <a href="#">19496751</a> |
| 30 | 216m N   | 318090 174360  | GRANGETOWN BH5                                          | 8.5    | N            | <a href="#">380115</a>   |
| J  | 216m NE  | 318491 174270  | CARDIFF BAY BARRAGE GROUNDWATER CONTROL SYSTEM BH1/PB1  | -      | Y            | N/A                      |
| K  | 221m E   | 318551 174177  | BUTETOWN LINK CARDIFF BTL22                             | -      | Y            | N/A                      |
| 31 | 221m N   | 318140 174360  | GRANGETOWN BH6                                          | 21.0   | N            | <a href="#">380116</a>   |
| L  | 222m W   | 317711 174200  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP5               | -      | Y            | N/A                      |
| 32 | 222m E   | 318561 174121  | CARDIFF YACHT CLUB ACCESS ROAD TP9                      | -      | Y            | N/A                      |
| H  | 223m W   | 317705 174166  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP8               | -      | Y            | N/A                      |
| I  | 223m SW  | 317772 173988  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP22              | -      | Y            | N/A                      |

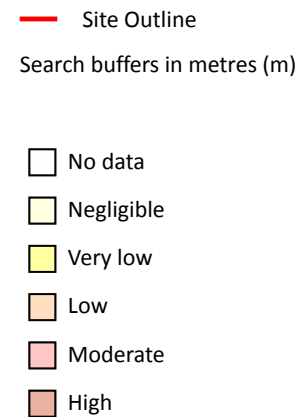
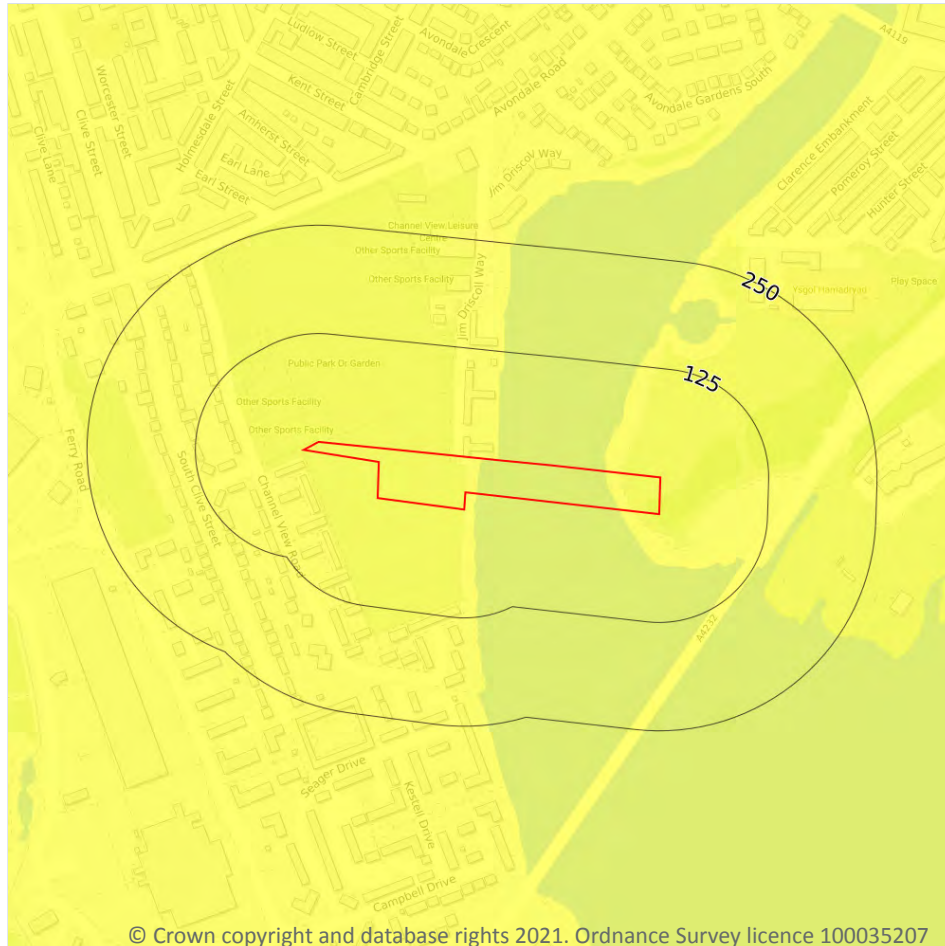


| ID | Location | Grid reference | Name                                                    | Length | Confidential | Web link                 |
|----|----------|----------------|---------------------------------------------------------|--------|--------------|--------------------------|
| 33 | 224m SW  | 317900 173900  | THE MARL GRANGETOWN                                     | 6.1    | N            | <a href="#">379919</a>   |
| H  | 224m W   | 317703 174143  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP11              | -      | Y            | N/A                      |
| G  | 227m SW  | 317729 174039  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP19              | -      | Y            | N/A                      |
| J  | 229m NE  | 318478 174298  | BUTETOWN SEWER DIVERSION 2                              | 7.5    | N            | <a href="#">380187</a>   |
| M  | 231m SW  | 317812 173948  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP25              | -      | Y            | N/A                      |
| K  | 233m E   | 318561 174185  | BUTETOWN LINK CARDIFF SP4                               | -      | Y            | N/A                      |
| 34 | 233m N   | 318011 174385  | GRANGETOWN CARDIFF 1                                    | 14.0   | N            | <a href="#">20057019</a> |
| J  | 234m NE  | 318511 174275  | CARDIFF BAY BARRAGE, GROUNDWATER CONTROL SYSTEM BH1/OB1 | 19.0   | N            | <a href="#">19494774</a> |
| 35 | 234m E   | 318572 174095  | CARDIFF YACHT CLUB ACCESS ROAD TP8                      | -      | Y            | N/A                      |
| I  | 234m SW  | 317782 173965  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP24              | -      | Y            | N/A                      |
| I  | 235m SW  | 317772 173972  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP23              | -      | Y            | N/A                      |
| L  | 235m W   | 317696 174192  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP6               | -      | Y            | N/A                      |
| N  | 236m S   | 318314 173840  | BUTETOWN LINK CARDIFF BTL9                              | -      | Y            | N/A                      |
| J  | 240m NE  | 318482 174310  | CARDIFF BAY BARRAGE HAMADRYAD HOSPITAL 1/PTW            | -      | Y            | N/A                      |
| L  | 244m W   | 317687 174191  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP7               | -      | Y            | N/A                      |
| N  | 247m S   | 318331 173828  | BUTETOWN LINK CARDIFF BTL10                             | -      | Y            | N/A                      |
| 36 | 249m N   | 318139 174388  | JIM DRISCOLL WAY BH CS317                               | 21.05  | N            | <a href="#">19496636</a> |
| M  | 250m SW  | 317793 173938  | FERRY ROAD RAILWAY EMBANKMENT CARDIFF TP26              | -      | Y            | N/A                      |

*This data is sourced from the British Geological Survey.*



## 17 Natural ground subsidence - Shrink swell clays



### 17.1 Shrink swell clays

#### Records within 50m

1

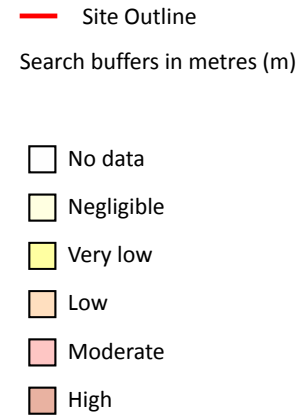
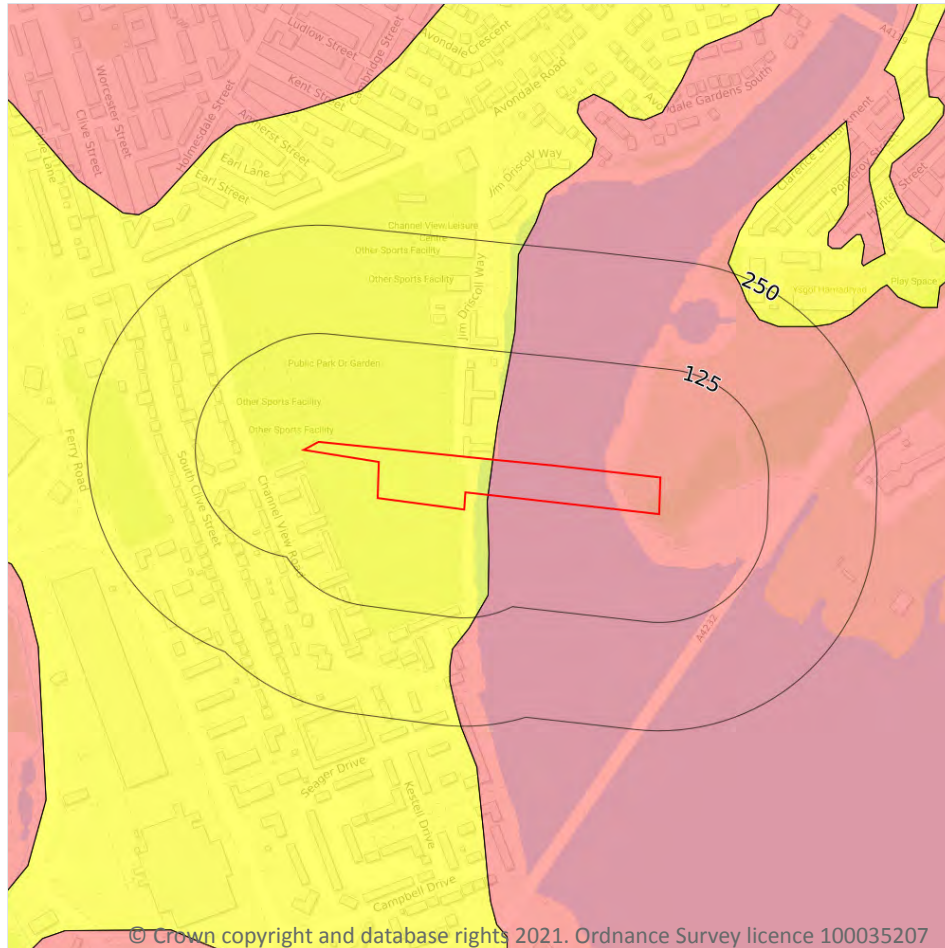
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 119**

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

*This data is sourced from the British Geological Survey.*

## Natural ground subsidence - Running sands



### 17.2 Running sands

#### Records within 50m

2

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 120**

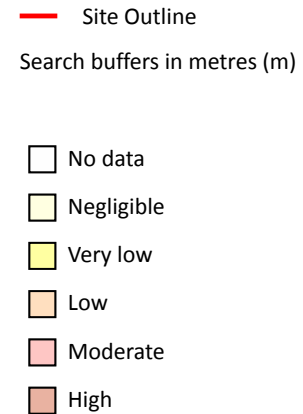
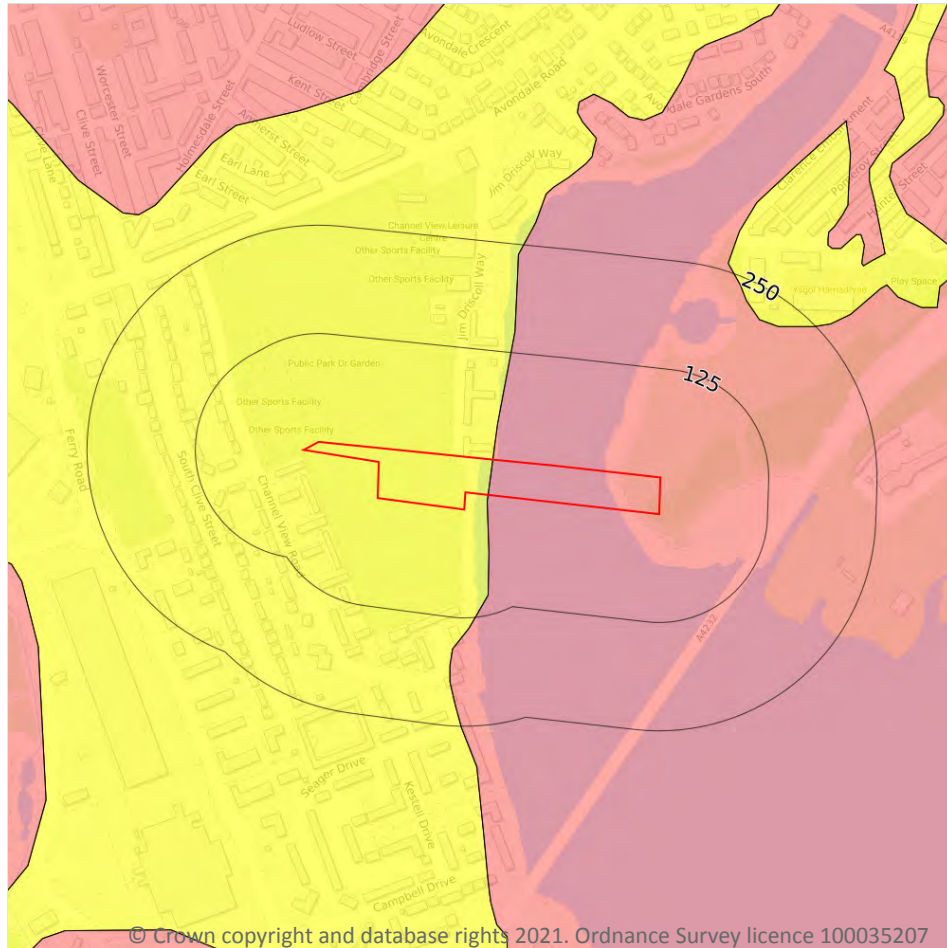
| Location | Hazard rating | Details                                                                                                                                 |
|----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------|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

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

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Compressible deposits



### 17.3 Compressible deposits

#### Records within 50m

2

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 122**

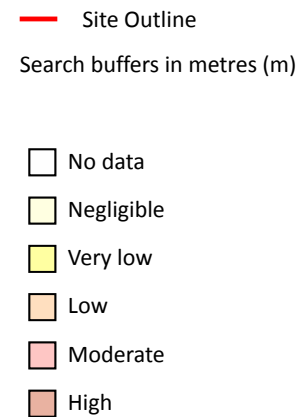
| Location | Hazard rating | Details                                                                                                         |
|----------|---------------|-----------------------------------------------------------------------------------------------------------------|
| On site  | Very low      | Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses. |

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

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Collapsible deposits



### 17.4 Collapsible deposits

#### Records within 50m

1

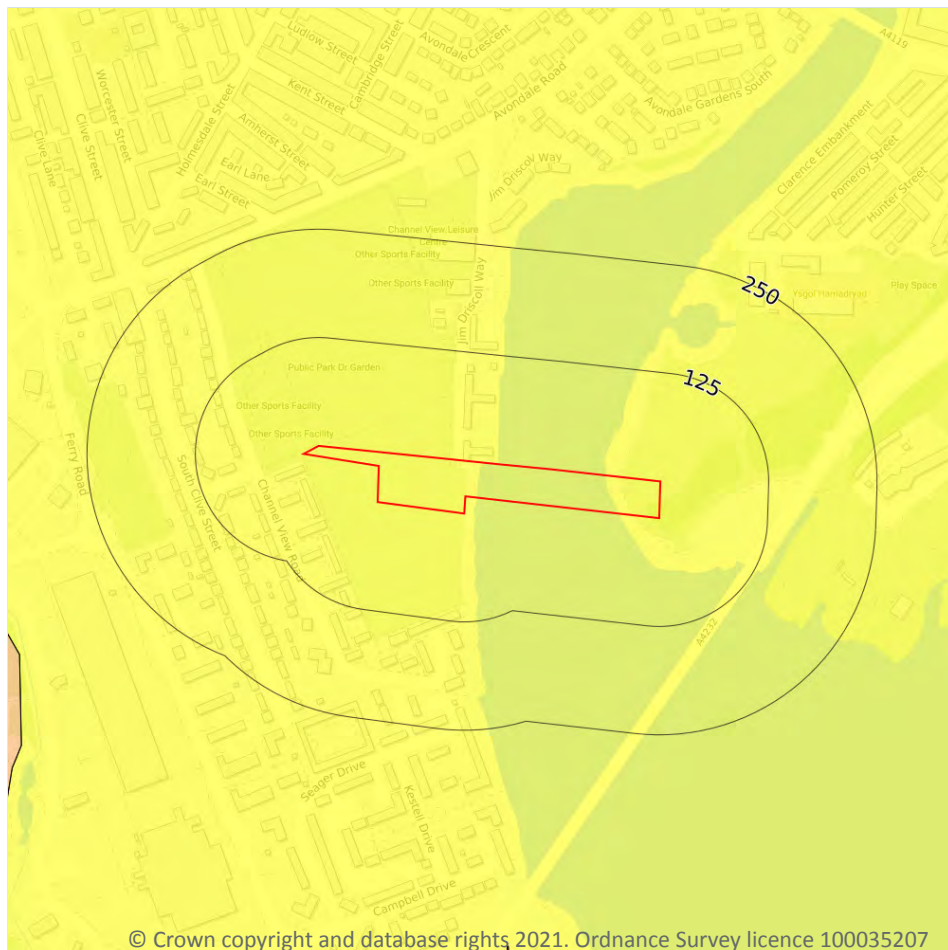
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 124**

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

*This data is sourced from the British Geological Survey.*

## Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☐ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.5 Landslides

#### Records within 50m

1

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

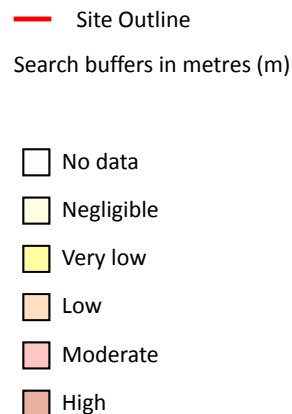
Features are displayed on the Natural ground subsidence - Landslides map on **page 125**

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

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Ground dissolution of soluble rocks



### 17.6 Ground dissolution of soluble rocks

#### Records within 50m

1

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

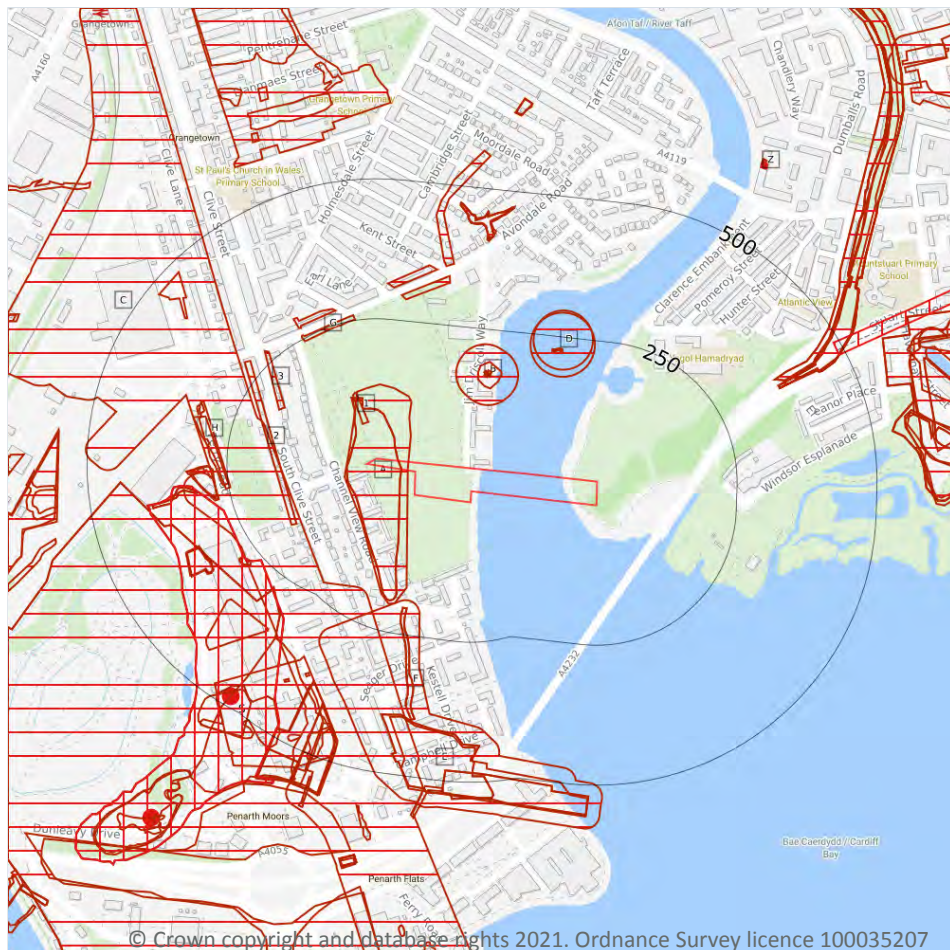
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 126**

| 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.*



## 18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
  - Natural cavities (Point)
  - BritPits
  - Surface ground workings
  - Underground workings
  - Historical Mineral Planning Areas
  - Mining Cavities
- Non Coal Mining
  - Sporadic underground mining of restricted extent possible
  - Localised small scale underground mining possible
  - Small scale mining possible
  - Underground mining known or likely within or in close proximity
  - Underground mining known within or in very close proximity

### 18.1 Natural cavities

Records within 500m

0

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

*This data is sourced from Stantec UK Ltd.*

## 18.2 BritPits

### Records within 500m

**1**

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 128**

| ID | Location | Details                                                                                                  | Description                                                                                                                                                                                                                                                                                                                              |
|----|----------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S  | 481m SW  | Name: Gbangstown<br>Address: Grangetown, CARDIFF, Glamorgan<br>Commodity: Clay & Shale<br>Status: Ceased | Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site<br>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

**22**

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 128**

| ID | Location | Land Use                    | Year of mapping | Mapping scale |
|----|----------|-----------------------------|-----------------|---------------|
| A  | On site  | Unspecified Ground Workings | 1915            | 1:10560       |
| A  | On site  | Unspecified Pit             | 1938            | 1:10560       |
| A  | On site  | Unspecified Pit             | 1938            | 1:10560       |
| 1  | 67m N    | Pond                        | 1879            | 1:10560       |
| B  | 115m N   | Sewage Tank                 | 1922            | 1:10560       |
| B  | 145m N   | Sewage Tank                 | 1915            | 1:10560       |
| C  | 147m W   | Docks                       | 1922            | 1:10560       |
| 2  | 150m W   | Water Body                  | 1879            | 1:10560       |
| B  | 165m N   | Sewage Tank                 | 1889            | 1:10560       |
| B  | 167m N   | Sewage Tank                 | 1938            | 1:10560       |



| ID | Location | Land Use                    | Year of mapping | Mapping scale |
|----|----------|-----------------------------|-----------------|---------------|
| B  | 167m N   | Sewage Tank                 | 1938            | 1:10560       |
| 3  | 178m NW  | Water Body                  | 1879            | 1:10560       |
| D  | 179m N   | Sewage Tank                 | 1922            | 1:10560       |
| E  | 188m S   | Graving Dock                | 1915            | 1:10560       |
| D  | 192m N   | Sewage Tank                 | 1915            | 1:10560       |
| F  | 203m S   | Unspecified Ground Workings | 1938            | 1:10560       |
| F  | 203m S   | Unspecified Ground Workings | 1938            | 1:10560       |
| D  | 222m N   | Sewage Tank                 | 1938            | 1:10560       |
| D  | 222m N   | Sewage Tank                 | 1938            | 1:10560       |
| D  | 223m N   | Sewage Tank                 | 1889            | 1:10560       |
| G  | 244m NW  | Ponds                       | 1879            | 1:10560       |
| H  | 247m W   | Ponds                       | 1879            | 1:10560       |

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.4 Underground workings

### Records within 1000m

3

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 128**

| ID | Location | Land Use        | Year of mapping | Mapping scale |
|----|----------|-----------------|-----------------|---------------|
| I  | 256m SW  | Old Coal Pits   | 1915            | 1:10560       |
| 9  | 488m NE  | Tunnel          | 1995            | 1:10000       |
| Z  | 634m NE  | Old Coal Staith | 1922            | 1:10560       |

*This is data is sourced from Ordnance Survey/Groundsure.*



## 18.5 Historical Mineral Planning Areas

Records within 500m

0

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

*This data is sourced from the British Geological Survey.*

## 18.6 Non-coal mining

Records within 1000m

0

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

*This data is sourced from the British Geological Survey.*

## 18.7 Mining cavities

Records within 1000m

0

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

0

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

*This data is sourced from Johnson Poole and Bloomer.*

## 18.9 Coal mining

Records on site

0

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

*This data is sourced from the Coal Authority.*



## 18.10 Brine areas

|                 |   |
|-----------------|---|
| Records on site | 0 |
|-----------------|---|

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

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

## 18.11 Gypsum areas

|                 |   |
|-----------------|---|
| Records on site | 0 |
|-----------------|---|

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

## 18.12 Tin mining

|                 |   |
|-----------------|---|
| Records on site | 0 |
|-----------------|---|

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

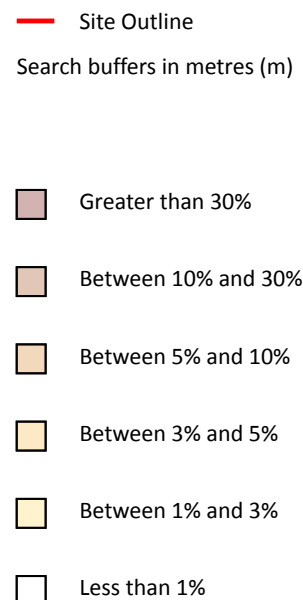
## 18.13 Clay mining

|                 |   |
|-----------------|---|
| Records on site | 0 |
|-----------------|---|

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

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

## 19 Radon



### 19.1 Radon

#### Records on site

1

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 133**

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

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



## 20 Soil chemistry

### 20.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

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 |

*This data is sourced from the British Geological Survey.*

### 20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

13

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>).

| Location | Arsenic (mg/kg) | Bioaccessible Arsenic (mg/kg) | Lead (mg/kg) | Bioaccessible Lead (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Nickel (mg/kg) | Tin (mg/kg) |
|----------|-----------------|-------------------------------|--------------|----------------------------|-----------------|------------------|----------------|----------------|-------------|
| On site  | 17              | 3                             | 211          | 145                        | 0.3             | 70               | 75             | 40             | 30          |
| On site  | 17              | 3                             | 228          | 157                        | 0.3             | 70               | 71             | 39             | 38          |
| On site  | 18              | 3.2                           | 252          | 173                        | 0.3             | 72               | 77             | 41             | 54          |
| On site  | 18              | 3.2                           | 315          | 216                        | 0.3             | 74               | 84             | 42             | 79          |
| On site  | 18              | 3.2                           | 242          | 166                        | 0.3             | 76               | 72             | 42             | 52          |
| On site  | 18              | 3.2                           | 270          | 185                        | 0.3             | 72               | 80             | 41             | 54          |



| Location       | Arsenic (mg/kg) | Bioaccessible Arsenic (mg/kg) | Lead (mg/kg) | Bioaccessible Lead (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Nickel (mg/kg) | Tin (mg/kg) |
|----------------|-----------------|-------------------------------|--------------|----------------------------|-----------------|------------------|----------------|----------------|-------------|
| <b>On site</b> | <b>19</b>       | <b>3.3</b>                    | <b>314</b>   | <b>216</b>                 | <b>0.3</b>      | <b>76</b>        | <b>84</b>      | <b>42</b>      | <b>80</b>   |
| <b>On site</b> | <b>19</b>       | <b>3.3</b>                    | <b>229</b>   | <b>157</b>                 | <b>0.3</b>      | <b>72</b>        | <b>83</b>      | <b>42</b>      | <b>36</b>   |
| <b>On site</b> | <b>21</b>       | <b>3.7</b>                    | <b>204</b>   | <b>140</b>                 | <b>0.3</b>      | <b>73</b>        | <b>83</b>      | <b>46</b>      | <b>26</b>   |
| 13m W          | 22              | 3.8                           | 207          | 142                        | 0.4             | 73               | 94             | 47             | 27          |
| 27m W          | 27              | 4.7                           | 202          | 139                        | 0.4             | 77               | 91             | 56             | 24          |
| 42m NW         | 22              | 3.8                           | 198          | 136                        | 0.3             | 73               | 74             | 47             | 23          |
| 47m NW         | 17              | 3                             | 186          | 128                        | 0.3             | 70               | 65             | 39             | 23          |

*This data is sourced from the British Geological Survey.*

## 20.3 BGS Measured Urban Soil Chemistry

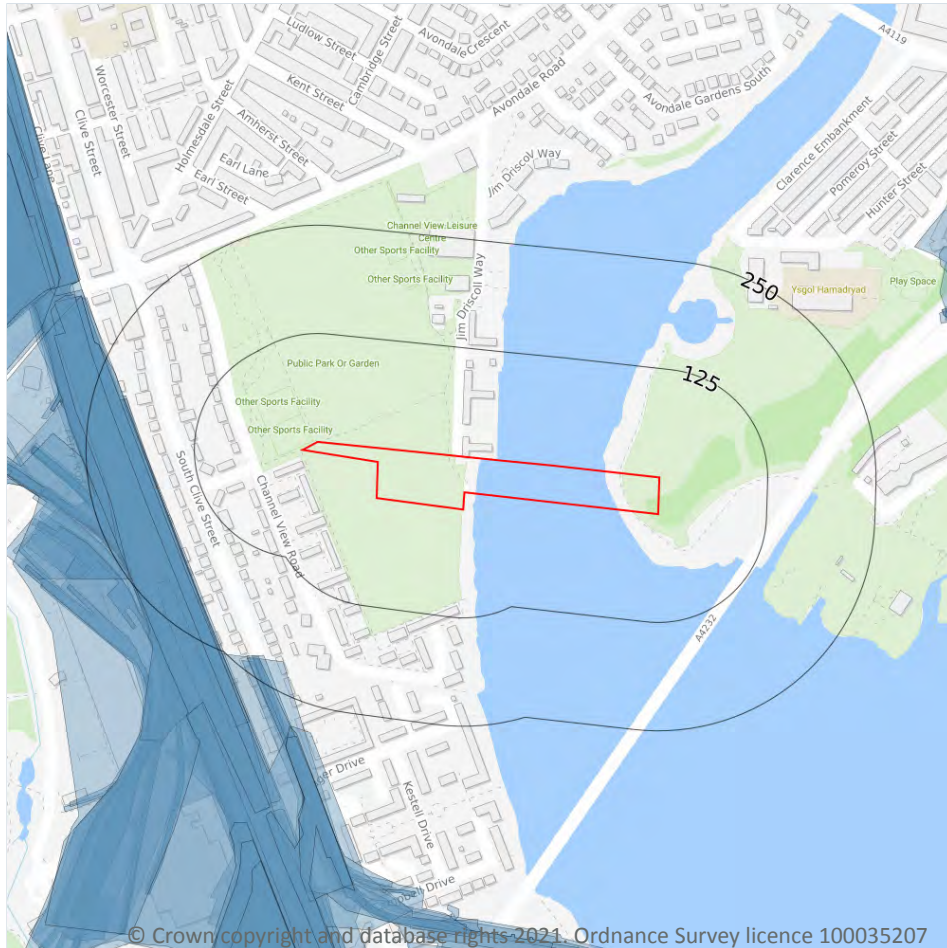
**Records within 50m**

**0**

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

*This data is sourced from the British Geological Survey.*

## 21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

### 21.1 Underground railways (London)

Records within 250m

0

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

*This data is sourced from publicly available information by Groundsure.*

### 21.2 Underground railways (Non-London)

Records within 250m

0

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

0

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

32

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.

Features are displayed on the Railway infrastructure and projects map on **page 136**

| Location | Land Use        | Year of mapping | Mapping scale |
|----------|-----------------|-----------------|---------------|
| 170m W   | Railway Sidings | 1879            | 10560         |
| 172m W   | Railway Sidings | 1922            | 10560         |
| 172m W   | Railway Sidings | 1938            | 10560         |
| 173m W   | Railway Sidings | 1974            | 10000         |
| 173m W   | Railway Sidings | 1983            | 10000         |
| 176m W   | Railway Sidings | 1963            | 10560         |
| 177m W   | Railways        | 1901            | -             |
| 179m W   | Railways        | 1920            | -             |
| 182m W   | Railway Sidings | 1953            | 2500          |
| 183m W   | Railway Sidings | 1968            | 2500          |
| 183m W   | Railway Sidings | 1974            | 1250          |
| 190m W   | Railway Sidings | 1995            | 10000         |
| 200m W   | Railway Sidings | 1969            | 1250          |
| 201m SW  | Railway Sidings | 1968            | 2500          |
| 202m SW  | Railway Sidings | 1970            | 1250          |
| 203m SW  | Railway Sidings | 1953            | 1250          |
| 216m SW  | Railway Sidings | 1989            | 1250          |



| Location | Land Use        | Year of mapping | Mapping scale |
|----------|-----------------|-----------------|---------------|
| 217m SW  | Railway Sidings | 1986            | 1250          |
| 225m SW  | Railway Sidings | 1996            | 1250          |
| 228m SW  | Railway Sidings | 1889            | 10560         |
| 230m SW  | Railway Sidings | 1901            | 2500          |
| 230m SW  | Railway Sidings | 1920            | 2500          |
| 233m W   | Railway Sidings | 1901            | 2500          |
| 233m SW  | Railway Sidings | 1920            | 2500          |
| 233m SW  | Railway Sidings | 1941            | 2500          |
| 234m W   | Railway Sidings | 1954            | 2500          |
| 235m W   | Railway Sidings | 1953            | 1250          |
| 237m W   | Tramway Sidings | 1880            | 2500          |
| 238m SW  | Railway Sidings | 1968            | 2500          |
| 239m W   | Railway Sidings | 1947            | 10560         |
| 240m SW  | Railway Sidings | 1953            | 2500          |
| 250m SW  | Railway Sidings | 1970            | 1250          |

*This data is sourced from Ordnance Survey/Groundsure.*

## 21.5 Royal Mail tunnels

**Records within 250m**

**0**

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

*This data is sourced from Groundsure/the Postal Museum.*

## 21.6 Historical railways

**Records within 250m**

**0**

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

*This data is sourced from OpenStreetMap.*



## 21.7 Railways

Records within 250m

0

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

0

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

*This data is sourced from publicly available information by Groundsure.*

## 21.9 Crossrail 2

Records within 500m

0

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

*This data is sourced from publicly available information by Groundsure.*

## 21.10 HS2

Records within 500m

0

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

*This data is sourced from HS2 Ltd.*

## Data providers

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

## Terms and conditions

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

