

# Site Condition Report

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#### Site Address:

#### **MISWA Chemicals Limited**

Miswa Chemicals Limited 54 Caswell Road Brackmills Industrial Estate Northampton NN4 7PW



#### **Registered Office:**

Caswell Road Brackmills Northampton NN4 7PW

Permit Reference: EPR/AP3398LQ Document Reference: 012.1\_05\_006 Issue Date: 24/07/2023

#### **Document Control**

Document Title	Reference	Client	Status
Site Condition Report	012.1_05_006	MISWA Chemicals Limited	FINAL

# **Document History**

Version	Issue date	Author	Checked	Description
D1	20/01/2023	AIL	AIL	Drafted for substantial variation application pack, Client review.
V1	16/02/2023	AIL	AIL	Client approved version for submission.
D2	31/05/2023	AIL	AIL	Amended at request by EA during allocation period.
V2	24/07/2023	AIL	AIL	Approved by client for submission.

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# **Appendices**

Title	Reference
Appendix 1	GS-9180909
Appendix 2	GS-9180908_largeScale
Appendix 3	GS-9180908_smallScale

# Drawings

Drawing 1 Permit Boundary 012.1_09_001	
Drawing 2 012.1_09_003 1 Km Sensitive Receptors REV A	2
Drawing 3 Site Plan MD22024 - BERP Project Site Drawing - Dated 14-12-2022	3
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Drawing 4 Sensitive Receptors 2 km Plan 012.1_09_004	
Drawing 5 Sensitive Receptors 10 km Plan 012.1_09_005	
Drawing 6 Drainage Plan MD17007	6

#### 1 Introduction

This Site Condition Report (SCR) accompanies the application for variation to an bespoke waste permit to modernise in accordance with legislation from a waste permit to an installation permit and to add an additional waste code. Site is located at Miswa Chemicals Limited 54 Caswell Road Brackmills Industrial Estate Northampton NN4 7PW.

In approx. 2012 Installation Emissions Directives (IED) was issued and those applicable bespoke waste permits that fell within the remit as defined by the IED regulations had a transition period to apply and vary their operations to be complaint. Unfortunately permit EPR/AP3398LQ was not varied to an IED permit in 2012 and now needs to be varied under a substantial variation application rather than a normal variation as described in the pre application advice received in section 01 of this application pack.

This SCR is an update to the one submitted with the application ref EN7832.R.2.1.2.TC.

MISWA Chemicals Limited was established in 1979 and has operated in around Northamptonshire creating and exporting products worldwide. An bespoke environmental permit was applied for and issued on 28th April 2009 however to date the site has not operated this permit fully.

The existing permit enables the operation of;

'The main features of the facility are as follows. Glycol and water are recovered from waste glycol streams using filtration, settlement, flocculation, and distillation. The recovered glycol and water are then used as raw materials in other downstream processes.

The site has planning permission issued by Northamptonshire County Council (NCC) under reference:

The permitted activities are described in Permitted Activities below which also include the processing of Glycol. At present this process is not active on site as the plant has not yet be commission however, on commissioning and prior to operations a revised EMS will be submitted to the EA for approval and notification of intended and permitted activity.

2 Site Details	
Name of the applicant	MISWA Chemicals Limited
Activity address	54 Caswell Road Brackmills Northampton NN4 7PW
National grid reference	SP 77565 58276
Document reference and dates for Site Condition Report at permit application and surrender	EN7832.R.2.1.2.TC
Document references for site plans (including location and boundaries)	Permit Boundary 012.1_09_001
	Site Plan 012.1_09_002

#### 3 Condition Of The Land At Permit Issue

#### Environmental setting including:

- geology
- hydrogeology
- surface waters

#### Geology

Superficial- 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.

Bedrock- Whitby Mudstone Formation - Mudstone **Hydrogeology** 

Superficial- No superficial aquifer designation.

**Bedrock Aquifer-** unproductive These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

Groundwater vulnerability-Low

Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer.

#### **Abstractions**

Surface water abstractions

ID	Location	Details
1	524 m W	Status: Active Licence No: AN/032/0005/014 Details: Heat Pump Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: UN-NAMED LAKE AT 1234 PAVILION DRIVE, NORTHAMPTON, NORTHAMPT

		Data Type: Point
		Name: Barclays
		Execution Services
		Limited
		Easting: 476968
		Northing: 258495
2	1098 m N	Status: Active
2	1030 111 14	Licence No:
		AN/032/0005/006
		Details: Fish
		Pass/Canoe Pass
		Direct Source:
		SURFACE WATER
		SOURCE OF SUPPLY Point: RIVER NENE AT
		NORTHAMPTON
		Data Type: Point
		Name: UKEliteSports
		Ltd
		Easting: 477386
		Northing: 259448
3	1147 m N	Status: Historical
		Licence No:
		5/32/05/*S/0067
		Details: Fish
		Pass/Canoe Pass Direct Source:
		Direct Source: SURFACE WATER
		SOURCE OF SUPPLY
		Point: RIVER NENE AT
		NORTHAMPTON
		Data Type: Point
		Name: NENE
		WHITEWATER
		CENTRE LTD
		Easting: 477400
		Northing: 259500
4	1186 m N	Status: Active Licence No:
		AN/032/0005/013
		Details: Hydroelectric
		Power Generation
		Direct Source:
		SURFACE WATER
		SOURCE OF SUPPLY
		Point: NENE WHITE
		WATER CENTRE
		Data Type: Point
		Name: Aquazoom Ltd Easting: 477425
		Northing: 259544
Detable For		1
Potable Extra	actions	

ID	Location	Details
-	1706 m	Status: Active Licence No: 5/32/05/*G/0002 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services
		Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL, ST ANDREWS HOSPITAL Data Type: Point Name: ST ANDREWS HOSPITAL Easting: 477100 Northing: 260000

#### **Surface Water**

Hydrology

No river network within 250 m of the site and no surface water features within 250 m.

Water frame work directive catchment is **Nene** - conf Brampton Branch to conf Ise.

#### **Flooding**

- Surface water flooding 1 in 30 year event.
- Ground water flooding in negligible.
- No river or coastal flooding.

#### **Flooding**

No risk of flooding from sea or rivers.

High risk for surface water flooding on site.

#### Pollution history including:

pollution incidents that may have affected land historical land-uses and associated contaminants any visual/olfactory evidence of existing contamination evidence of damage to pollution prevention measures

#### **RADON**

Risk of RADON less than 1%

Site has been used as an industrial area since 1991. The wider area since 1938.

No pollution incidents reported.

Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)		None	
Baseline soil and groundwater reference data		See Appendix 1	
Supporting information	<ul><li>incidents</li><li>Historical Ordnance St</li><li>Site reconnaissance</li><li>Historical investigation</li></ul>	Historical Ordnance Survey plans	

# 4 Permitted Activities

Permitted activities	Activity Reference	Disposal and Recovery Codes	Limits of activities
	S5.3 A(1)(i Physico chemical treatment	Recycling/Reclamation of organic substances which are not used as solvents  R5 — Recycling/reclamation of other inorganic materials  R13 — Storage of wastes pending any of the operations R1 to R12 (excluding temporary storage, pending collection, on the site where it is	limited to the separation water from the was glycol Treatment consisting only screening, flocculation, centrifuging filtration, distillation condensing
		produced)	and storage of waste  Glycol (2 hour period Processing capacity of uto 150 tonner day.  Brake Fluit Processing capacity of uto 20 tonner day.
			poi day.
	temporary of	wastes pending any of the operations R1 to	

	Storage of non-hazardous waste (any amount) prior to treatment.
Non-permitted activities undertaken	Chemical Manufacturing.
Document references for:	Site Plan         012.1_09_002           Environmental Assessment         Risk 012.1_05_002

5 Changes To The Activity	
Have there been any changes to the activity boundary?	Apart of the variation application to add one additional waste code and vary to an IED permit the permit boundary is being extend as per Permit Boundary and Extension Plan 012.1_09_007 Prior to this extension the area benefitted from permit infrastructure.
Have there been any changes to the permitted activities?	None
Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?	None
<ul> <li>supporting information</li> <li>Description of the changes</li> <li>List of 'dangerous substa</li> </ul>	s to the boundary (where relevant) s to the permitted activities (where relevant) nces' used/produced by the permitted activities that Application Site Condition Report (where relevant)

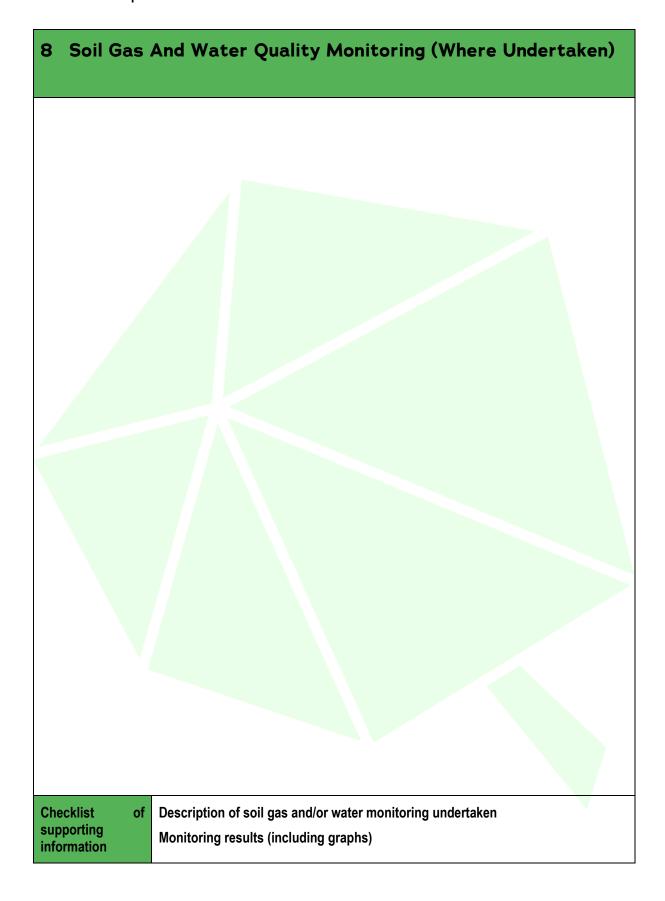
#### 6 Measures Taken To Protect Land

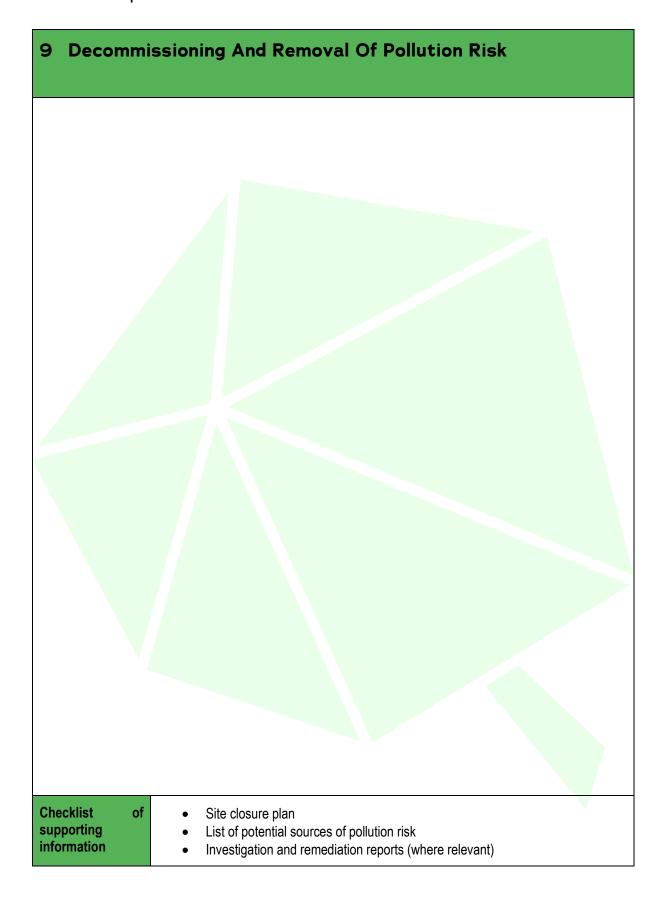
Site continues to benefit form permittable infrastructure, managerial procedures and regulation from the Environment Agency.

# Checklist of supporting information

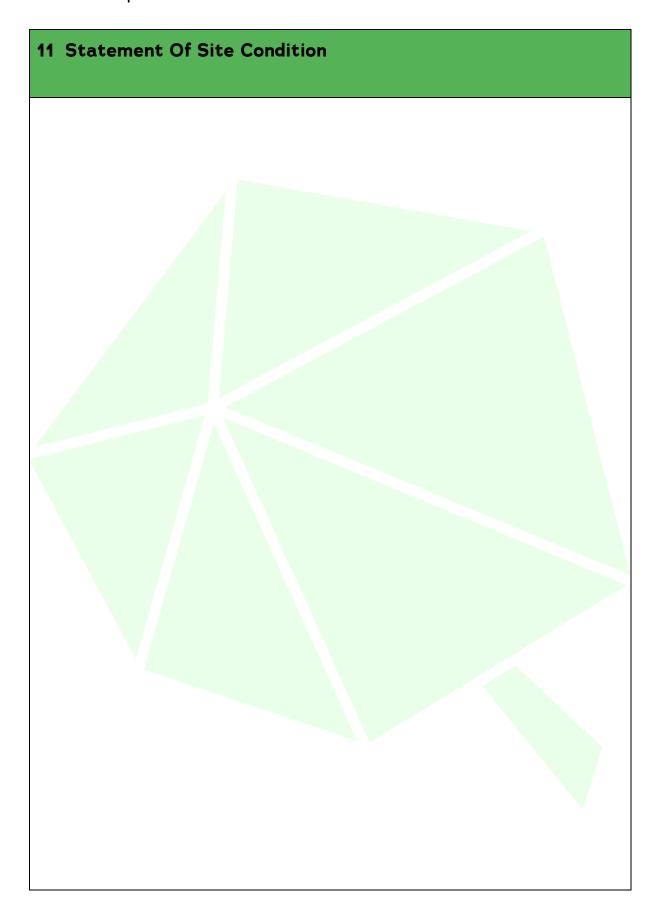
- Inspection records and summary of findings of inspections for all pollution prevention measures
- Records of maintenance, repair and replacement of pollution prevention measures

Pollution Incidents That May Have Had An Impact On Land, **And Their Remediation** Checklist of Records of pollution incidents that may have impacted on land supporting Records of their investigation and remediation information

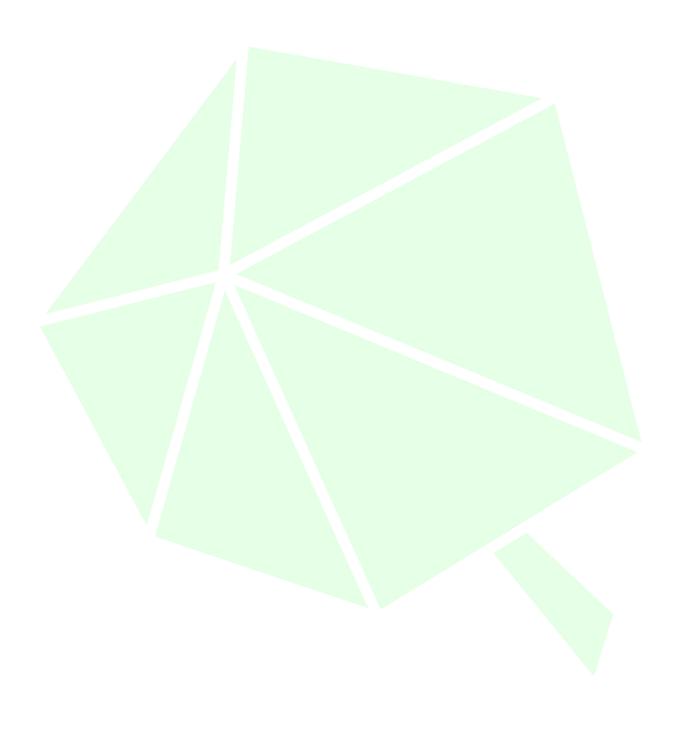




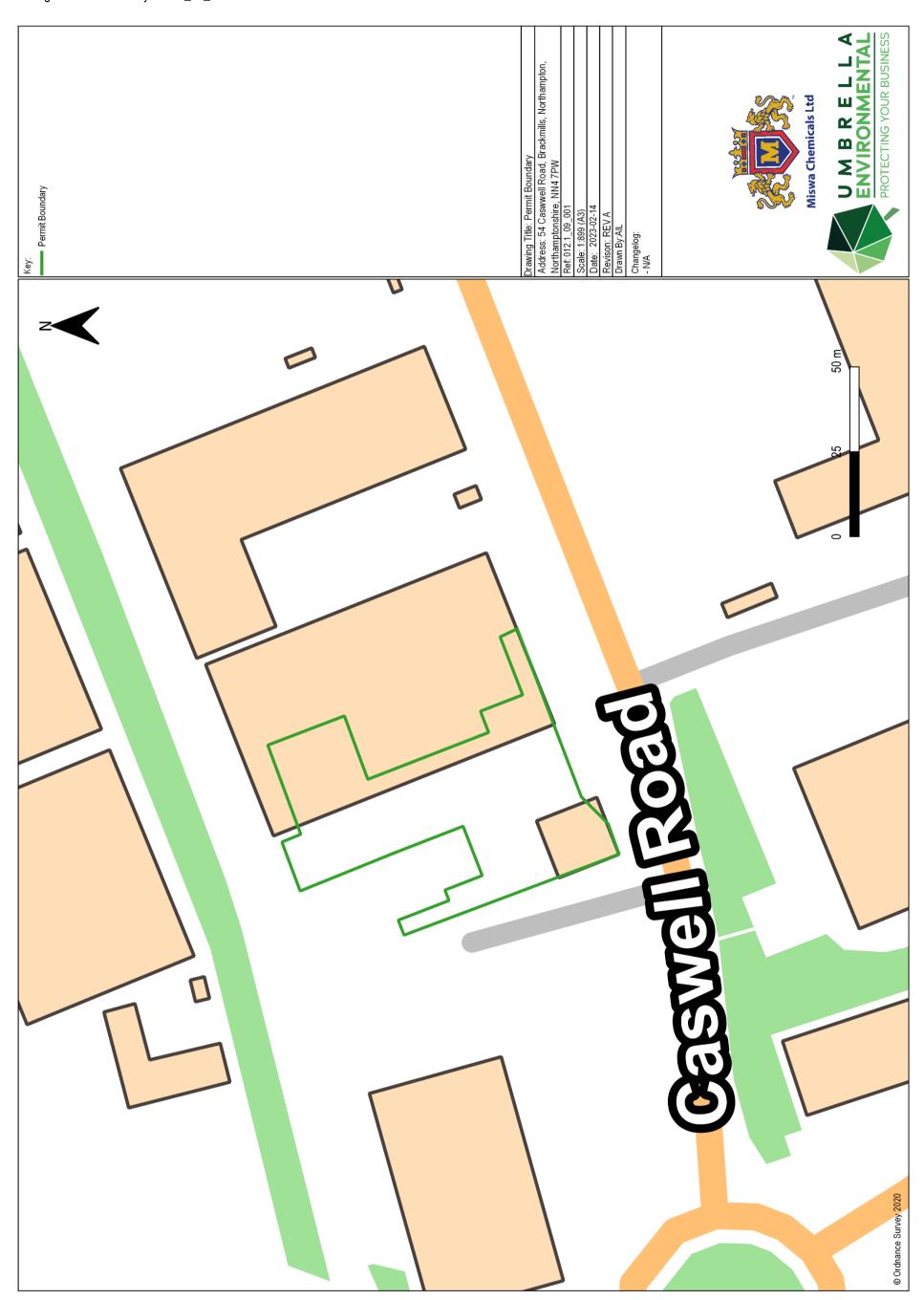
# 10 Reference Data And Remediation (Where Relevant) Checklist Land and/or groundwater data collected at application (if collected) supporting Land and/or groundwater data collected at surrender (where needed) information Assessment of satisfactory state Remediation and verification reports (where undertaken)



#### 12 DRAWINGS



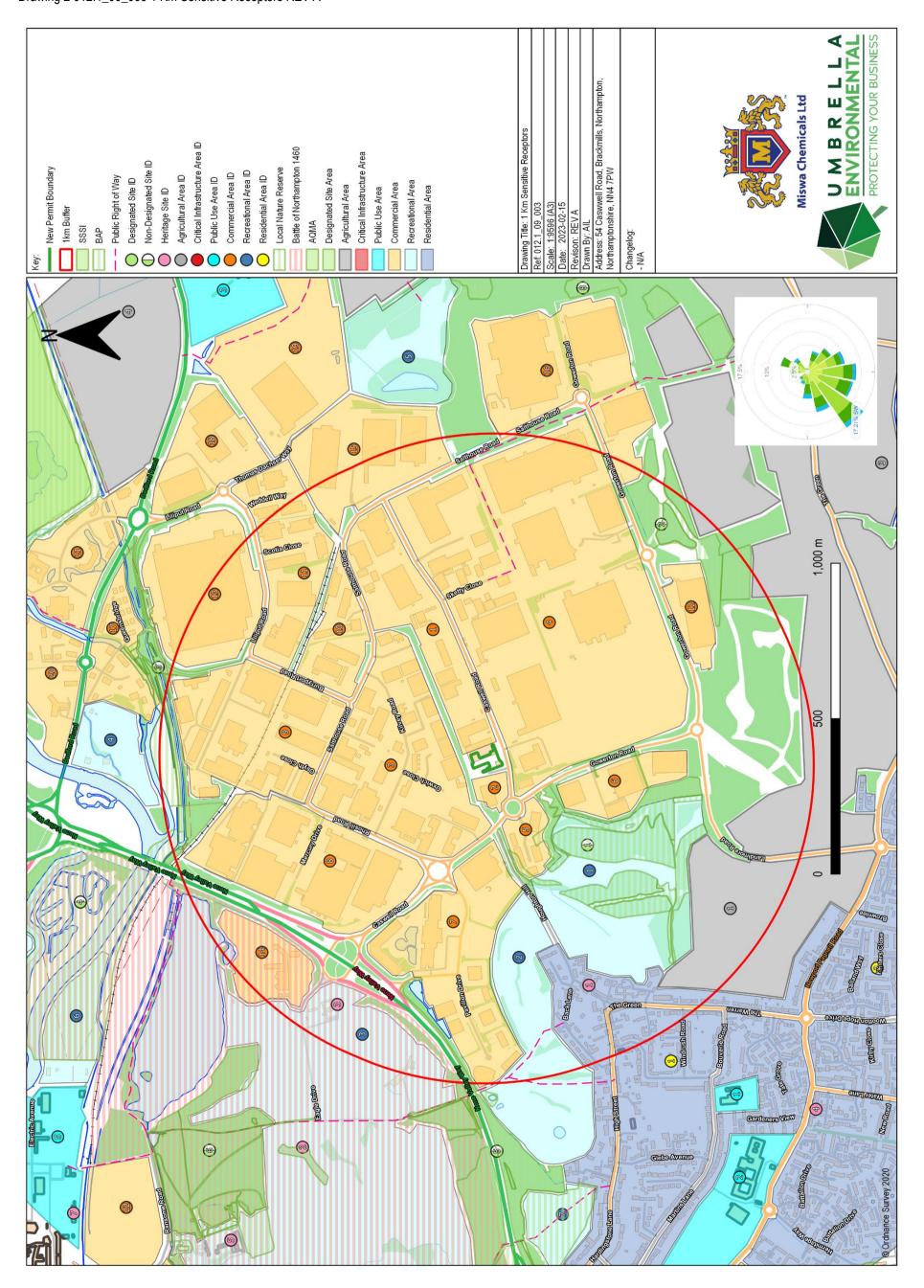
Drawing 1 Permit Boundary 012.1\_09\_001



Site Condition Report

MISWA Chemicals Limited

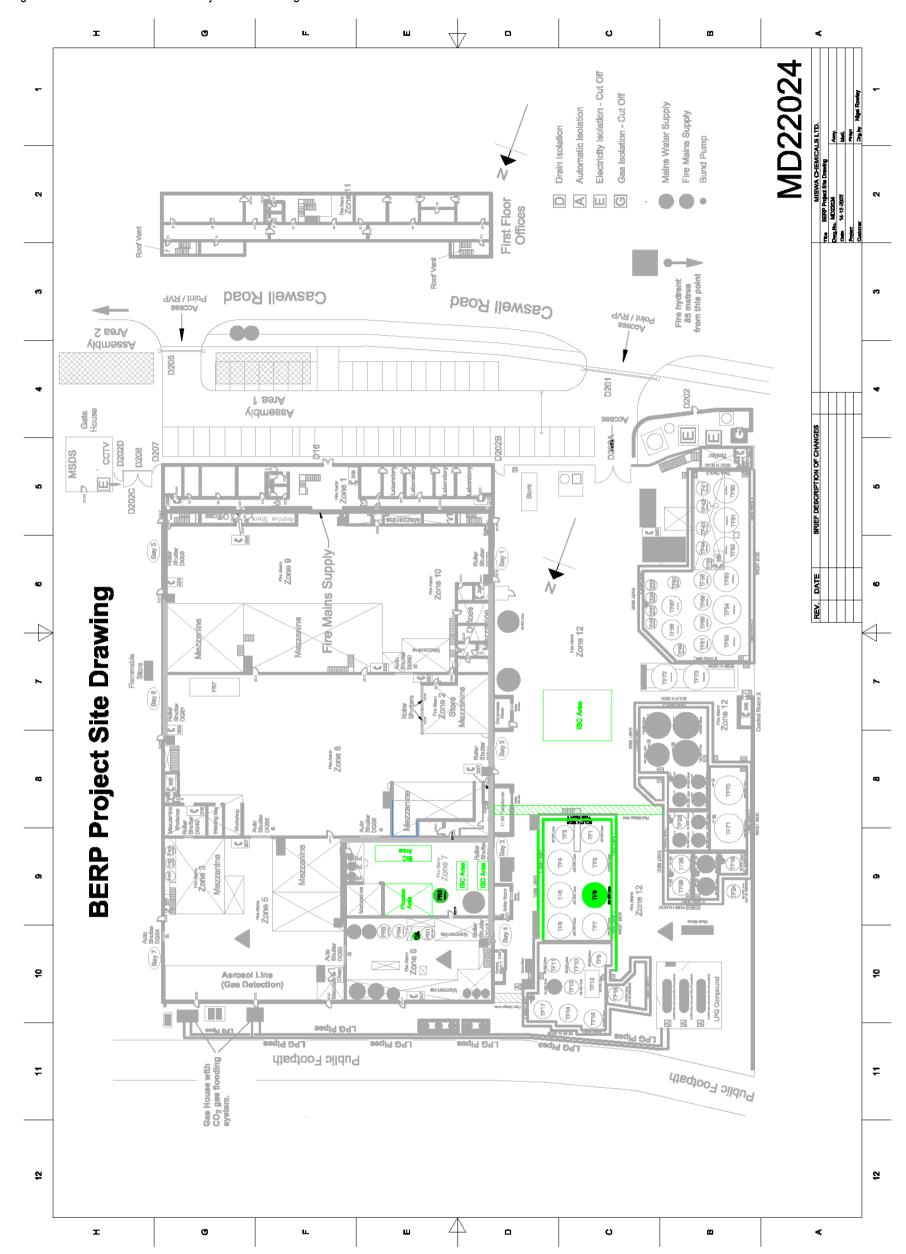
Drawing 2 012.1\_09\_003 1 Km Sensitive Receptors REV A



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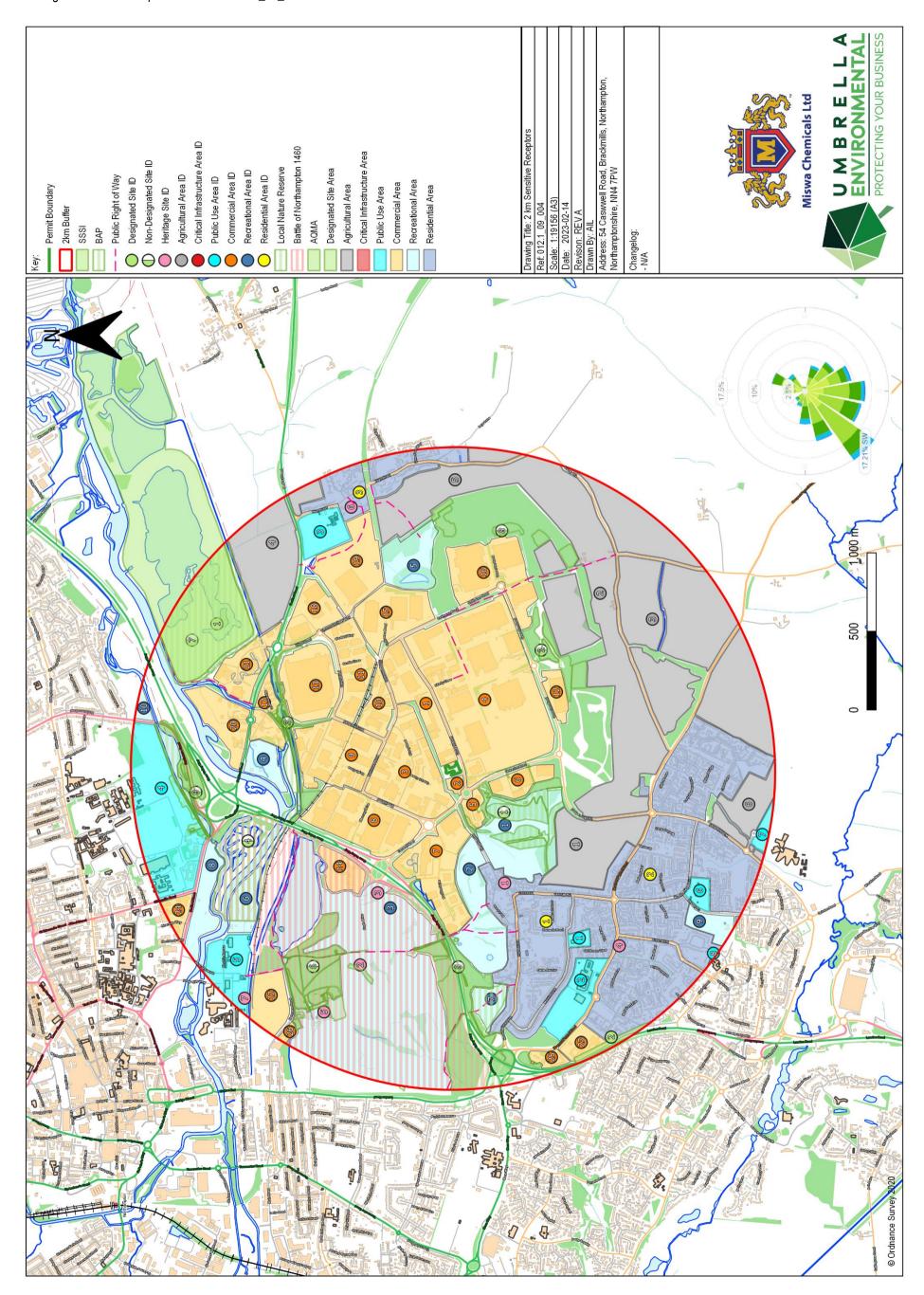
Drawing 3 Site Plan MD22024 - BERP Project Site Drawing - Dated 14-12-2022



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Drawing 4 Sensitive Receptors 2 km Plan 012.1\_09\_004

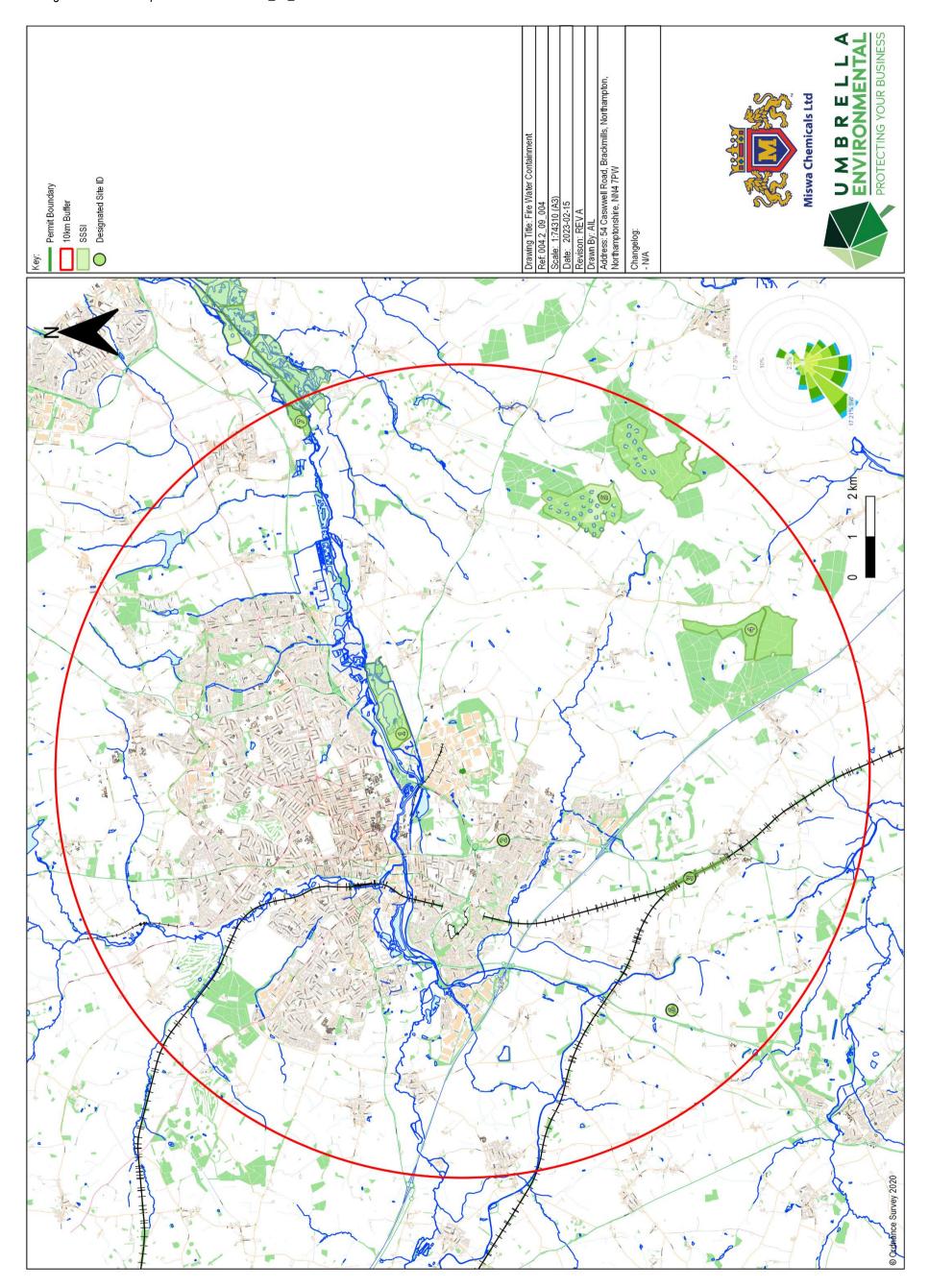


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Site Condition Report

MISWA Chemicals Limited

Drawing 5 Sensitive Receptors 10 km Plan 012.1\_09\_005

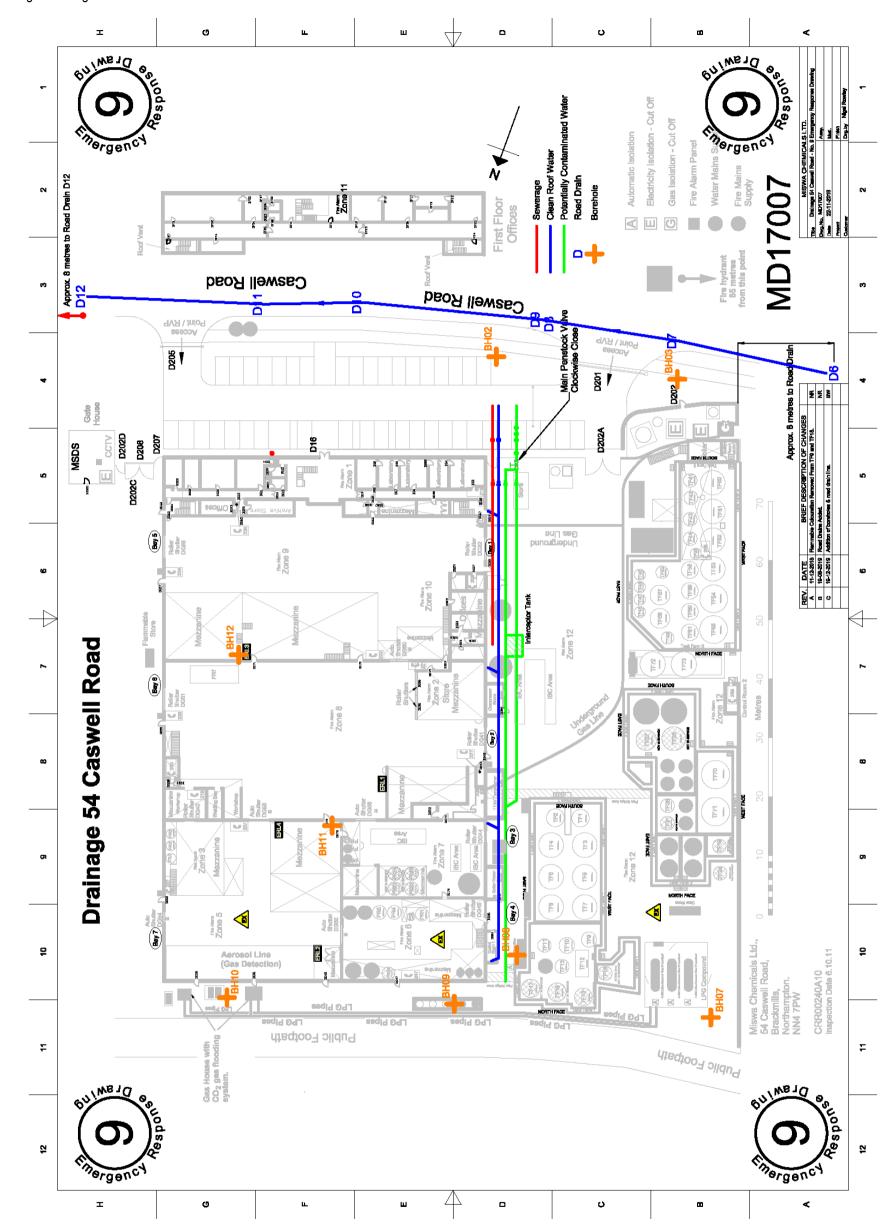


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Site Condition Report

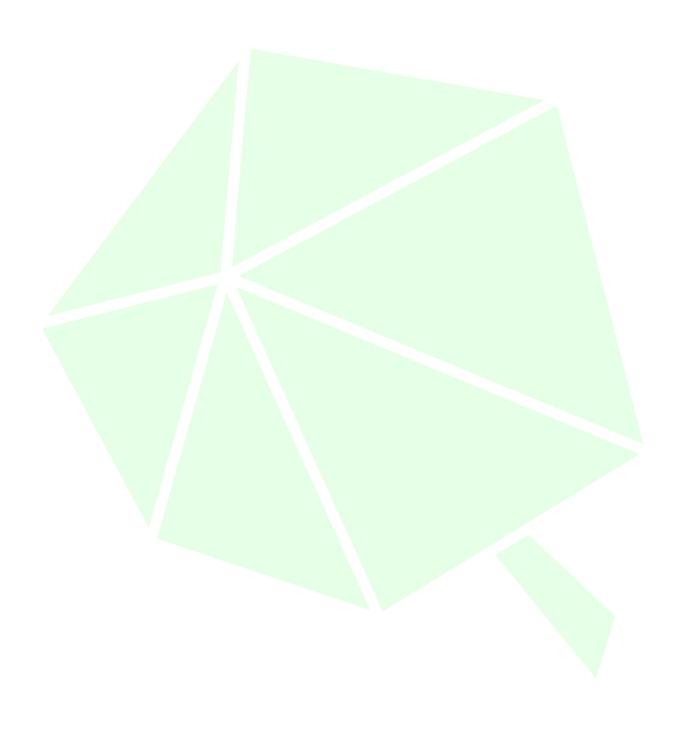
MISWA Chemicals Limited

Drawing 6 Drainage Plan MD17007



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## 13 APPENDICES



Appendix 1 GS-9180909



TANK 65M FROM MISWA CHEMICALS LTD, 54 CASWELL ROAD 18M FROM UNNAMED ROAD, CASWELL ROAD, NORTHAMPTON, NN4 7PW

#### **Order Details**

**Date:** 07/11/2022

**MISWA** 

Our Ref: GS-9180909

Your ref:

#### **Site Details**

Location: 477549 258266

Area: 1.87 ha

Authority: West Northamptonshire Council

(Northampton Area)



**Summary of findings** 

p. 2 Aerial image

p. 8

OS MasterMap site plan

p.13 groundsure.com/insightuserguide

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



Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

#### **Summary of findings**

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>14</u>	<u>1.1</u>	Historical industrial land uses	1	0	4	9	-
<u>15</u>	<u>1.2</u>	Historical tanks	0	0	2	6	-
<u>16</u>	<u>1.3</u>	Historical energy features	0	2	6	33	-
18	1.4	Historical petrol stations	0	0	0	0	-
18	1.5	Historical garages	0	0	0	0	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
<u>19</u>	<u>2.1</u>	Historical industrial land uses	1	0	4	12	-
<u>20</u>	2.2	Historical tanks	0	0	9	20	-
<u>22</u>	<u>2.3</u>	Historical energy features	0	9	45	155	-
29	2.4	Historical petrol stations	0	0	0	0	-
30	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
31	3.1	Active or recent landfill	0	0	0	0	-
31	3.2	Historical landfill (BGS records)	0	0	0	0	-
32	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
32	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
32	3.5	Historical waste sites	0	0	0	0	-
<u>32</u>	<u>3.6</u>	<u>Licensed waste sites</u>	1	0	1	2	-
<u>33</u>	<u>3.7</u>	Waste exemptions	0	1	44	32	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>41</u>	<u>4.1</u>	Recent industrial land uses	2	8	25	-	-
44	4.2	Current or recent petrol stations	0	0	0	0	-
44	4.3	Electricity cables	0	0	0	0	-
44	4.4	Gas pipelines	0	0	0	0	-
44	4.5	Sites determined as Contaminated Land	0	0	0	0	



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<u>45</u>	4.6	Control of Major Accident Hazards (COMAH)	1	0	0	0	-
45	4.7	Regulated explosive sites	0	0	0	0	-
<u>45</u>	4.8	Hazardous substance storage/usage	1	0	0	0	-
<u>46</u>	<u>4.9</u>	Historical licensed industrial activities (IPC)	0	0	0	3	-
<u>46</u>	4.10	Licensed industrial activities (Part A(1))	0	0	0	4	-
<u>47</u>	<u>4.11</u>	Licensed pollutant release (Part A(2)/B)	0	0	1	0	-
48	4.12	Radioactive Substance Authorisations	0	0	0	0	-
48	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
48	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
48	4.15	Pollutant release to public sewer	0	0	0	0	-
48	4.16	List 1 Dangerous Substances	0	0	0	0	-
<u>49</u>	4.17	List 2 Dangerous Substances	0	0	2	4	-
<u>49</u>	4.18	Pollution Incidents (EA/NRW)	0	1	2	2	-
50	4.19	Pollution inventory substances	0	0	0	0	-
50	4.20	Pollution inventory waste transfers	0	0	0	0	-
50	4.21	Pollution inventory radioactive waste	0	0	0	0	-
50 Page	4.21 Section	Pollution inventory radioactive waste  Hydrogeology	On site	0 0-50m	0 50-250m	0 250-500m	- 500-2000m
		·	On site	_	50-250m	_	- 500-2000m
Page	Section	Hydrogeology	On site	0-50m	50-250m	_	- 500-2000m
Page <u>51</u>	Section 5.1	Hydrogeology  Superficial aquifer	On site  Identified (	0-50m within 500m	50-250m	_	- 500-2000m
Page <u>51</u> <u>53</u>	Section <u>5.1</u> <u>5.2</u>	Hydrogeology  Superficial aquifer  Bedrock aquifer	On site  Identified (	0-50m within 500m within 500m within 50m)	50-250m	_	- 500-2000m
Page <u>51</u> <u>53</u> <u>55</u>	Section <u>5.1</u> <u>5.2</u> <u>5.3</u>	Hydrogeology  Superficial aquifer  Bedrock aquifer  Groundwater vulnerability	On site  Identified (  Identified (  Identified (	0-50m within 500m within 500m within 50m) iin 0m)	50-250m	_	- 500-2000m
Page 51 53 55	<ul><li>Section</li><li>5.1</li><li>5.2</li><li>5.3</li><li>5.4</li></ul>	Hydrogeology  Superficial aquifer  Bedrock aquifer  Groundwater vulnerability  Groundwater vulnerability- soluble rock risk	On site  Identified (  Identified (  Identified (  None (with	0-50m within 500m within 500m within 50m) iin 0m)	50-250m	_	500-2000m
Page  51  53  55  56  56	<ul> <li>Section</li> <li>5.1</li> <li>5.2</li> <li>5.3</li> <li>5.4</li> <li>5.5</li> </ul>	Hydrogeology  Superficial aquifer  Bedrock aquifer  Groundwater vulnerability  Groundwater vulnerability- soluble rock risk  Groundwater vulnerability- local information	On site  Identified ( Identified ( Identified ( None (with	0-50m within 500m within 500m within 500m) ain 0m)	50-250m )	250-500m	
Page  51  53  55  56  56  57	<ul> <li>Section</li> <li>5.1</li> <li>5.2</li> <li>5.3</li> <li>5.4</li> <li>5.5</li> <li>5.6</li> </ul>	Hydrogeology  Superficial aquifer  Bedrock aquifer  Groundwater vulnerability  Groundwater vulnerability- soluble rock risk  Groundwater vulnerability- local information  Groundwater abstractions	On site  Identified ( Identified ( Identified ( None (with	0-50m within 500m within 500m within 50m) iin 0m) 0	50-250m ))	250-500m	5
Page 51 53 55 56 56 57 59	<ul> <li>Section</li> <li>5.1</li> <li>5.2</li> <li>5.3</li> <li>5.4</li> <li>5.5</li> <li>5.6</li> <li>5.7</li> </ul>	Hydrogeology  Superficial aquifer  Bedrock aquifer  Groundwater vulnerability  Groundwater vulnerability- soluble rock risk  Groundwater vulnerability- local information  Groundwater abstractions  Surface water abstractions	On site  Identified ( Identified ( Identified ( None (with 0	0-50m within 500m within 500m within 500m) ain 0m) 0	50-250m )) )	250-500m O	5 4
Page 51 53 55 56 56 57 59 60	<ul> <li>Section</li> <li>5.1</li> <li>5.2</li> <li>5.3</li> <li>5.4</li> <li>5.5</li> <li>5.6</li> <li>5.7</li> <li>5.8</li> </ul>	Hydrogeology  Superficial aquifer  Bedrock aquifer  Groundwater vulnerability  Groundwater vulnerability- soluble rock risk  Groundwater vulnerability- local information  Groundwater abstractions  Surface water abstractions  Potable abstractions	On site  Identified ( Identified ( Identified ( None (with 0 0	0-50m within 500m within 500m within 500m) ain 0m) 0 0	50-250m ) ) 0 0 0	250-500m	5 4
Page  51  53  55  56  57  59  60  60	5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9	Hydrogeology  Superficial aquifer  Bedrock aquifer  Groundwater vulnerability  Groundwater vulnerability- soluble rock risk  Groundwater vulnerability- local information  Groundwater abstractions  Surface water abstractions  Potable abstractions  Source Protection Zones	On site  Identified ( Identified ( Identified ( None (with 0 0 0	0-50m within 500m within 500m within 500m) ain 0m) 0 0 0	50-250m ) ) 0 0 0 0	250-500m  0 0 0	5 4



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61	6.2	Surface water features	0	0	0	-	-
<u>62</u>	<u>6.3</u>	WFD Surface water body catchments	1	-	-	-	-
<u>62</u>	<u>6.4</u>	WFD Surface water bodies	0	0	0	-	-
<u>63</u>	<u>6.5</u>	WFD Groundwater bodies	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
64	7.1	Risk of flooding from rivers and the sea	None (with	in 50m)			
64	7.2	Historical Flood Events	0	0	0	-	-
64	7.3	Flood Defences	0	0	0	-	-
65	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
65	7.5	Flood Storage Areas	0	0	0	-	-
66	7.6	Flood Zone 2	None (with	nin 50m)			
66	7.7	Flood Zone 3	None (with	nin 50m)			
Page	Section	Surface water flooding					
<u>67</u>	<u>8.1</u>	Surface water flooding	1 in 30 yea	r, 0.3m - 1.0r	m (within 50	m)	
Page	Section	Groundwater flooding					
6-							
69	9.1	Groundwater flooding	Negligible	(within 50m)			
-		Ţ.	Negligible On site	(within 50m) 0-50m	50-250m	250-500m	500-2000m
<u>69</u>	9.1	Groundwater flooding				<b>250-500m</b>	500-2000m
69 Page	9.1 Section	Groundwater flooding Environmental designations	On site	0-50m	50-250m		
69 Page	9.1 Section 10.1	Groundwater flooding  Environmental designations  Sites of Special Scientific Interest (SSSI)	On site	0-50m	50-250m O	0	1
69 Page 70 71	9.1 Section 10.1 10.2	Groundwater flooding  Environmental designations  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)	On site  O	0-50m O	50-250m O	0	1
69 Page 70 71	9.1 Section 10.1 10.2 10.3	Groundwater flooding  Environmental designations  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)	On site  O  O	0-50m 0 0	50-250m 0 0	0 0	1 1 0
69 Page 70 71 71	9.1 Section 10.1 10.2 10.3	Groundwater flooding  Environmental designations  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)  Special Protection Areas (SPA)	On site  0 0 0	0-50m 0 0	0 0 0	0 0 0	1 1 0
69 Page 70 71 71 72	9.1 Section 10.1 10.2 10.3 10.4 10.5	Groundwater flooding  Environmental designations  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)  Special Protection Areas (SPA)  National Nature Reserves (NNR)	On site  0 0 0 0 0	0-50m 0 0 0	0 0 0 0	0 0 0 0	1 1 0 1
69 Page 70 71 71 72 72	9.1 Section 10.1 10.2 10.3 10.4 10.5	Groundwater flooding  Environmental designations  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)  Special Protection Areas (SPA)  National Nature Reserves (NNR)  Local Nature Reserves (LNR)	On site  0 0 0 0 0 0	0-50m 0 0 0 0	50-250m 0 0 0 0 0	0 0 0 0 0 0	1 0 1 0
69 Page 70 71 71 72 72 73	9.1 Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7	Groundwater flooding  Environmental designations  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)  Special Protection Areas (SPA)  National Nature Reserves (NNR)  Local Nature Reserves (LNR)  Designated Ancient Woodland	On site  0 0 0 0 0 0 0	0-50m 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	1 1 0 1 0 1
69 Page 70 71 71 72 72 73 73	9.1 Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7	Groundwater flooding  Environmental designations  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)  Special Protection Areas (SPA)  National Nature Reserves (NNR)  Local Nature Reserves (LNR)  Designated Ancient Woodland  Biosphere Reserves	On site  0 0 0 0 0 0 0 0 0	0-50m 0 0 0 0 0	50-250m  0  0  0  0  0  0  0  0	0 0 0 0 0 0 0 0	1 0 1 0 1 0
69 Page 70 71 72 72 73 73 73	9.1 Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9	Groundwater flooding  Environmental designations  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)  Special Protection Areas (SPA)  National Nature Reserves (NNR)  Local Nature Reserves (LNR)  Designated Ancient Woodland  Biosphere Reserves  Forest Parks	On site  O O O O O O O O O O O O O O O O O O	0-50m  0  0  0  0  0  0  0  0  0  0	0 0 0 0 0 0 0		1 1 0 1 0 1 0
69 Page 70 71 71 72 72 73 73 73 73	9.1 Section 10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 10.10	Groundwater flooding  Environmental designations  Sites of Special Scientific Interest (SSSI)  Conserved wetland sites (Ramsar sites)  Special Areas of Conservation (SAC)  Special Protection Areas (SPA)  National Nature Reserves (NNR)  Local Nature Reserves (LNR)  Designated Ancient Woodland  Biosphere Reserves  Forest Parks  Marine Conservation Zones	On site  O O O O O O O O O O O O O O O O O O	0-50m  0  0  0  0  0  0  0  0  0  0  0	0 0 0 0 0 0 0 0		1 1 0 1 0 1 0 0



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74	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
74	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
74	10.15	Nitrate Sensitive Areas	0	0	0	0	0
<u>75</u>	10.16	Nitrate Vulnerable Zones	3	0	0	0	0
<u>75</u>	10.17	SSSI Impact Risk Zones	1	· ·	Ü	Ü	O
<del>70</del> 77	10.18	SSSI Units	0	0	0	0	1
	Section		On site	0-50m	50-250m	250-500m	500-2000m
Page		Visual and cultural designations				250-500111	300-2000111
79	11.1	World Heritage Sites	0	0	0	-	-
79	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
79	11.3	National Parks	0	0	0	-	-
79	11.4	Listed Buildings	0	0	0	-	-
80	11.5	Conservation Areas	0	0	0	-	-
80	11.6	Scheduled Ancient Monuments	0	0	0	-	-
80	11.7	Registered Parks and Gardens	0	0	0	-	_
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
U							
<u>81</u>	<u>12.1</u>	Agricultural Land Classification	Grade 2 (w	ithin 250m)			
_		*	Grade 2 (w	ithin 250m) 0	0	-	-
81	<u>12.1</u>	Agricultural Land Classification	,	,	0	-	-
<b>81</b> 82	<b>12.1</b> 12.2	Agricultural Land Classification  Open Access Land	0	0			-
<b>81</b> 82 <b>82</b>	12.1 12.2 12.3	Agricultural Land Classification  Open Access Land  Tree Felling Licences	0	0	1	-	- - - -
81 82 82 82	12.1 12.2 12.3 12.4	Agricultural Land Classification  Open Access Land  Tree Felling Licences  Environmental Stewardship Schemes	0 0	0 0	1	- - - - 250-500m	- - - - 500-2000m
81 82 82 82 83	12.1 12.2 12.3 12.4 12.5	Agricultural Land Classification  Open Access Land  Tree Felling Licences  Environmental Stewardship Schemes  Countryside Stewardship Schemes	0 0 0	0 0 0	1 0	- - - - 250-500m	- - - - 500-2000m
81 82 82 82 83 Page	12.1 12.2 12.3 12.4 12.5 Section	Agricultural Land Classification  Open Access Land  Tree Felling Licences  Environmental Stewardship Schemes  Countryside Stewardship Schemes  Habitat designations	0 0 0 0	0 0 0 0	1 0 0 50-250m	- - - - 250-500m -	- - - - 500-2000m
81 82 82 82 82 83 Page	12.1 12.2 12.3 12.4 12.5 Section 13.1	Agricultural Land Classification  Open Access Land  Tree Felling Licences  Environmental Stewardship Schemes  Countryside Stewardship Schemes  Habitat designations  Priority Habitat Inventory	0 0 0 0 0 On site	0 0 0 0 0-50m	1 0 0 50-250m	- - - 250-500m - -	- - - 500-2000m -
81 82 82 82 83 Page 84	12.1 12.2 12.3 12.4 12.5 Section 13.1 13.2	Agricultural Land Classification  Open Access Land  Tree Felling Licences  Environmental Stewardship Schemes  Countryside Stewardship Schemes  Habitat designations  Priority Habitat Inventory  Habitat Networks	0 0 0 0 On site	0 0 0 0 0-50m	1 0 0 50-250m 3	- - - 250-500m - - -	- - - 500-2000m - -
81 82 82 82 83 Page 84 85	12.1 12.2 12.3 12.4 12.5 Section 13.1 13.2 13.3	Agricultural Land Classification  Open Access Land  Tree Felling Licences  Environmental Stewardship Schemes  Countryside Stewardship Schemes  Habitat designations  Priority Habitat Inventory  Habitat Networks  Open Mosaic Habitat	0 0 0 0 0 0 site	0 0 0 0-50m	1 0 0 50-250m 3 0	- - - 250-500m - - - - 250-500m	500-2000m
81 82 82 82 83 Page 84 85 85	12.1 12.2 12.3 12.4 12.5 Section 13.1 13.2 13.3 13.4	Agricultural Land Classification Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations Priority Habitat Inventory Habitat Networks Open Mosaic Habitat Limestone Pavement Orders	0	0 0 0 0-50m	1 0 0 50-250m 3 0 0	- - -	- - -
81 82 82 82 83 Page 84 85 85 85	12.1 12.2 12.3 12.4 12.5 Section 13.1 13.2 13.3 13.4 Section	Agricultural Land Classification  Open Access Land  Tree Felling Licences  Environmental Stewardship Schemes  Countryside Stewardship Schemes  Habitat designations  Priority Habitat Inventory  Habitat Networks  Open Mosaic Habitat  Limestone Pavement Orders  Geology 1:10,000 scale	0	0 0 0 0-50m 0 0	1 0 0 50-250m 3 0 0	- - -	- - -
81 82 82 83 Page 84 85 85 85 Page	12.1 12.2 12.3 12.4 12.5 Section 13.1 13.2 13.3 13.4 Section 14.1	Agricultural Land Classification Open Access Land Tree Felling Licences Environmental Stewardship Schemes Countryside Stewardship Schemes Habitat designations Priority Habitat Inventory Habitat Networks Open Mosaic Habitat Limestone Pavement Orders Geology 1:10,000 scale 10k Availability	O On site O O On site Identified (	0 0 0 0-50m 0 0 0-50m	1 0 50-250m 3 0 0 0 50-250m	- - - - 250-500m	- - -



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89	14.4	Landslip (10k)	0	0	0	0	-	
90	<u>14.5</u>	Bedrock geology (10k)	1	0	0	2	-	
<u>91</u>	<u>14.6</u>	Bedrock faults and other linear features (10k)	0	0	0	1	-	
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m	
92	<u>15.1</u>	50k Availability	Identified (within 500m)					
93	15.2	Artificial and made ground (50k)	0	0	0	0	-	
93	15.3	Artificial ground permeability (50k)	0	0	-	-	-	
<u>94</u>	<u>15.4</u>	Superficial geology (50k)	0	0	1	2	-	
95	15.5	Superficial permeability (50k)	None (with	in 50m)				
95	15.6	Landslip (50k)	0	0	0	0	-	
95	15.7	Landslip permeability (50k)	None (with	in 50m)				
<u>96</u>	<u>15.8</u>	Bedrock geology (50k)	1	0	0	3	-	
<u>97</u>	<u>15.9</u>	Bedrock permeability (50k)	Identified (within 50m)					
<u>97</u>	<u>15.10</u>	Bedrock faults and other linear features (50k)	0	0	0	1	-	
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m	
<u>98</u>	<u>16.1</u>	BGS Boreholes	0	3	31	-	-	
Page	Section	Natural ground subsidence						
<u>101</u>	<u>17.1</u>	Shrink swell clavs	Low (within	n 50m)				
<u>102</u>	<u>17.2</u>	Running sands	Negligible (	within 50m)				
<u>103</u>	<u>17.3</u>	Compressible deposits	Negligible (	within 50m)				
<u>104</u>	<u>17.4</u>	Collapsible deposits	Very low (v	vithin 50m)				
<u>105</u>	<u>17.5</u>	<u>Landslides</u>	Very low (v	vithin 50m)				
106			Negligible (within 50m)					
	<u>17.6</u>	Ground dissolution of soluble rocks	Negligible (	within 50m)				
Page	17.6 Section	Ground dissolution of soluble rocks  Mining, ground workings and natural cavities	Negligible (	0-50m	50-250m	250-500m	500-2000m	
Page					50-250m O	<b>250-500</b> m	500-2000m	
_	Section	Mining, ground workings and natural cavities	On site	0-50m			500-2000m - -	
108	Section 18.1	Mining, ground workings and natural cavities  Natural cavities	On site	0-50m O	0	0	500-2000m - -	
108 109	Section 18.1 <b>18.2</b>	Mining, ground workings and natural cavities  Natural cavities  BritPits	On site  O	0-50m 0	0	0	500-2000m - - -	
108 109 109	Section 18.1 18.2 18.3	Mining, ground workings and natural cavities  Natural cavities  BritPits  Surface ground workings	On site  0  0	0-50m 0 0	0 0 3	0 1	- - -	



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110	18.6	Non-coal mining	0	0	0	0	0	
110	18.7	Mining cavities	0	0	0	0	0	
110	18.8	JPB mining areas	None (within 0m)					
110	18.9	Coal mining	None (within 0m)					
111	18.10	Brine areas	None (within 0m)					
111	18.11	Gypsum areas	None (within 0m)					
111	18.12	Tin mining	None (with	in Om)				
111	18.13	Clay mining	None (with	in Om)				
Page	Section	Radon						
112	<u>19.1</u>	Radon	Less than 1	.% (within 0n	n)			
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m	
113	<u>20.1</u>	BGS Estimated Background Soil Chemistry	2	0	-	-	-	
<u>113</u>	20.2	BGS Estimated Urban Soil Chemistry	6	6	-	-	-	
114	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	
115	21.1	Underground railways (London)	0	0	0	-	-	
115	21.2	Underground railways (Non-London)	0	0	0	-	-	
115	21.3	Railway tunnels	0	0	0	-	-	
115	21.4	Historical railway and tunnel features	0	0	0	-	-	
115	21.5	Royal Mail tunnels	0	0	0	-	-	
116	21.6	Historical railways	0	0	0	-	-	
116	21.7	Railways	0	0	0	-	-	
116	21.8	Crossrail 1	0	0	0	0	-	
116	21.9	Crossrail 2	0	0	0	0	-	
116	21.10	HS2	0	0	0	0	-	



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## **Recent aerial photograph**



Capture Date: 17/04/2021

Site Area: 1.87ha



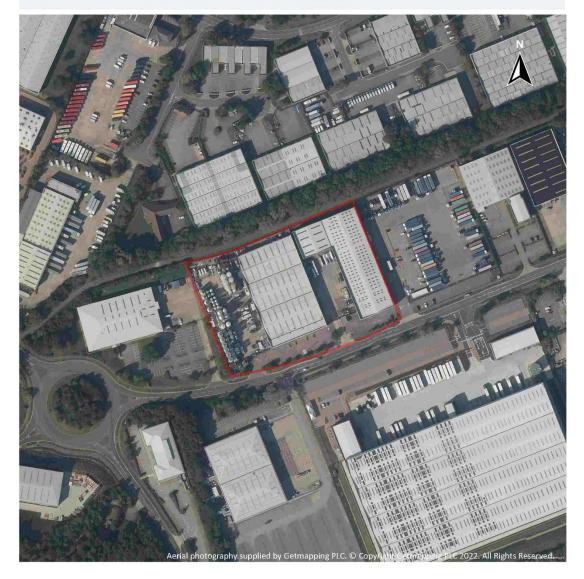
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# Recent site history - 2018 aerial photograph



Capture Date: 02/09/2018

Site Area: 1.87ha



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# Recent site history - 2012 aerial photograph



Capture Date: 24/07/2012

Site Area: 1.87ha



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# Recent site history - 2000 aerial photograph



Capture Date: 12/08/2000

Site Area: 1.87ha



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# Recent site history - 1999 aerial photograph



Capture Date: 02/09/1999

Site Area: 1.87ha



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# OS MasterMap site plan ESS

Site Area: 1.87ha



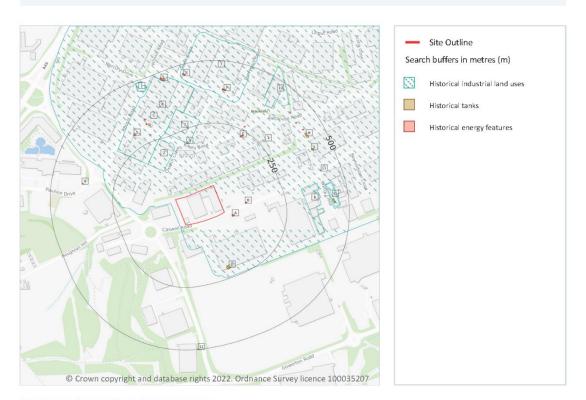
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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# 1 Past land use



### 1.1 Historical industrial land uses

Records within 500m 14

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
1	On site	Industrial Estate	1991	1757581



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Land use	Dates present	Group ID
2	122m NW	Unspecified Depot	1981	1763946
С	178m NW	Unspecified Works	1981	1783757
3	191m N	Unspecified Depot	1981	1763942
D	199m SE	Unspecified Tank	1991	1768755
6	322m E	Unspecified Mills	1991	1758199
7	343m N	Unspecified Works	1981	1771679
10	383m NE	Unspecified Depot	1981	1763922
G	418m E	Casing Factory	1938 - 1950	1826959
G	421m E	Unspecified Factory	1964	1765656
G	434m E	Unspecified Tanks	1938	1835061
G	442m E	Unspecified Tanks	1950	1784135
J	449m NW	Gravel Pit	1964	1843368
J	452m NW	Gravel Pit	1938 - 1950	1848175

This data is sourced from Ordnance Survey / Groundsure.

#### 1.2 Historical tanks

Records within 500m 8

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
D	200m SE	Unspecified Tank	1986 - 1991	297166
D	201m SE	Unspecified Tank	1993 - 1999	291783
С	313m NW	Unspecified Tank	1993 - 1999	301057
8	371m N	Unspecified Tank	1999	284338
Ι	419m NE	Unspecified Tank	1989 - 1996	297621



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Land use	Dates present	Group ID
Н	419m NE	Unspecified Tank	1989 - 1999	296330
1	419m NE	Unspecified Tank	1989	301391
G	435m E	Tanks	1925	287471

This data is sourced from Ordnance Survey / Groundsure.

## 1.3 Historical energy features

Records within 500m 41

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
Α	32m E	Electricity Substation	1986 - 1996	178175
Α	33m E	Electricity Substation	1999	186650
В	92m E	Electricity Substation	1986 - 1999	183410
В	93m E	Electricity Substation	1993 - 1996	177371
4	193m N	Electricity Substation	1978 - 1999	180799
Е	222m NE	Electricity Substation	1978 - 1999	185010
Е	228m NE	Gas Governor	1978 - 1991	182770
Е	230m NE	Gas Governor	1993 - 1999	184978
Е	264m NE	Gas Governor	1981 - 1999	174287
С	273m NW	Gas Governor	1981 - 1991	184291
С	274m NW	Gas Governor	1993 - 1999	185738
5	302m NW	Electricity Substation	1981 - 1999	179616
С	319m NW	Gas Governor	1993 - 1999	184041
С	321m NW	Gas Governor	1981 - 1991	180338
С	339m NW	Electricity Substation	1981 - 1999	175624



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ID	Location	Land use	Dates present	Group ID
9	373m W	Electricity Substation	1999	170275
F	381m N	Electricity Substation	1978 - 1999	185157
F	384m N	Gas Governor	1978	171883
F	384m N	Gas Governor	1984	171884
F	384m N	Gas Governor	1990	172036
F	384m N	Gas Governor	1991	172042
F	384m N	Gas Governor	1989	172313
F	384m N	Gas Governor	1981	172746
F	384m N	Gas Governor	1990	172747
F	384m N	Gas Governor	1986	172748
F	385m N	Gas Governor	1993	172315
F	385m N	Gas Governor	1993	172693
F	385m N	Gas Governor	1996	172750
F	385m N	Gas Governor	1999	173020
G	407m E	Electricity Substation	1986 - 1989	177283
G	407m E	Electricity Substation	1989 - 1996	181448
Н	412m NE	Gas Governor	1989 - 1999	180724
11	419m E	Gas Governor	1990 - 1996	184506
Н	420m NE	Electricity Substation	1978 - 1999	173940
Н	420m NE	Electricity Substation	1989 - 1999	186630
K	454m N	Gas Governor	1981 - 1991	181786
K	456m N	Gas Governor	1993 - 1999	180985
K	458m N	Electricity Substation	1981 - 1999	186529
L	460m N	Electricity Substation	1978 - 1991	185985
L	463m N	Electricity Substation	1993 - 1999	178077
12	497m S	Electricity Substation	1996 - 1999	186175

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#### 1.4 Historical petrol stations

Records within 500m 0

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

This data is sourced from Ordnance Survey / Groundsure.

#### 1.5 Historical garages

Records within 500m 0

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

This data is sourced from Ordnance Survey / Groundsure.

#### 1.6 Historical military land

Records within 500m

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.



Date: 7 November 2022



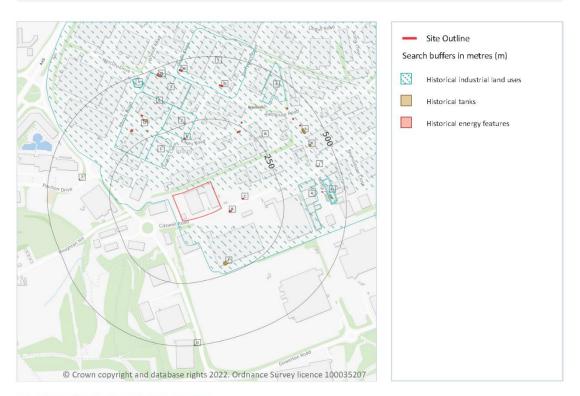
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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# 2 Past land use - un-grouped



### 2.1 Historical industrial land uses

Records within 500m 17

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

Features are displayed on the Past land use - un-grouped map on page 19

ID	Location	Land Use	Date	Group ID
Α	On site	Industrial Estate	1991	1757581
1	122m NW	Unspecified Depot	1981	1763946
D	178m NW	Unspecified Works	1981	1783757



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**Ref**: GS-9180909 **Your ref**: MISWA **Grid ref**: 477549 258266

ID	Location	Land Use	Date	Group ID
2	191m N	Unspecified Depot	1981	1763942
F	199m SE	Unspecified Tank	1991	1768755
3	314m N	Unspecified Works	1981	1783757
4	322m E	Unspecified Mills	1991	1758199
5	343m N	Unspecified Works	1981	1771679
8	383m NE	Unspecified Depot	1981	1763922
Н	418m E	Casing Factory	1950	1826959
Н	421m E	Unspecified Factory	1964	1765656
Н	427m E	Casing Factory	1938	1826959
Н	434m E	Unspecified Tanks	1938	1835061
Н	442m E	Unspecified Tanks	1950	1784135
L	449m NW	Gravel Pit	1964	1843368
L	452m NW	Gravel Pit	1950	1848175
L	452m NW	Gravel Pit	1938	1848175

This data is sourced from Ordnance Survey / Groundsure.

#### 2.2 Historical tanks

Records within 500m 29

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 19

ID	Location	Land Use	Date	Group ID
F	200m SE	Unspecified Tank	1989	297166
F	200m SE	Unspecified Tank	1990	297166
F	200m SE	Unspecified Tank	1990	297166
F	200m SE	Unspecified Tank	1991	297166
F	200m SE	Unspecified Tank	1986	297166
F	201m SE	Unspecified Tank	1993	291783



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Land Use	Date	Group ID
F	201m SE	Unspecified Tank	1996	291783
F	201m SE	Unspecified Tank	1999	291783
F	201m SE	Unspecified Tank	1993	291783
D	313m NW	Unspecified Tank	1993	301057
D	313m NW	Unspecified Tank	1996	301057
D	313m NW	Unspecified Tank	1999	301057
D	313m NW	Unspecified Tank	1993	301057
6	371m N	Unspecified Tank	1999	284338
K	419m NE	Unspecified Tank	1990	297621
K	419m NE	Unspecified Tank	1996	297621
K	419m NE	Unspecified Tank	1996	297621
K	419m NE	Unspecified Tank	1993	297621
K	419m NE	Unspecified Tank	1989	297621
I	419m NE	Unspecified Tank	1989	296330
I	419m NE	Unspecified Tank	1990	296330
I	419m NE	Unspecified Tank	1990	296330
Ι	419m NE	Unspecified Tank	1991	296330
K	419m NE	Unspecified Tank	1989	301391
I	421m NE	Unspecified Tank	1993	296330
I	421m NE	Unspecified Tank	1996	296330
Ι	421m NE	Unspecified Tank	1999	296330
I	421m NE	Unspecified Tank	1993	296330
Н	435m E	Tanks	1925	287471

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# 2.3 Historical energy features

Records within 500m 209

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

Features are displayed on the Past land use - un-grouped map on page 19

ID	Location	Land Use	Date	Group ID
В	32m E	Electricity Substation	1989	178175
В	32m E	Electricity Substation	1990	178175
В	32m E	Electricity Substation	1990	178175
В	32m E	Electricity Substation	1991	178175
В	32m E	Electricity Substation	1986	178175
В	33m E	Electricity Substation	1999	186650
В	34m E	Electricity Substation	1993	178175
В	34m E	Electricity Substation	1996	178175
В	34m E	Electricity Substation	1993	178175
С	92m E	Electricity Substation	1989	183410
С	92m E	Electricity Substation	1990	183410
С	92m E	Electricity Substation	1990	183410
С	92m E	Electricity Substation	1991	183410
С	92m E	Electricity Substation	1986	183410
С	93m E	Electricity Substation	1993	177371
С	93m E	Electricity Substation	1996	177371
С	93m E	Electricity Substation	1993	177371
С	93m E	Electricity Substation	1999	183410
Е	193m N	Electricity Substation	1978	180799
Е	194m N	Electricity Substation	1981	180799
Е	194m N	Electricity Substation	1984	180799
Е	194m N	Electricity Substation	1989	180799
Е	194m N	Electricity Substation	1990	180799



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ID	Location	Land Use	Date	Group ID
Е	194m N	Electricity Substation	1990	180799
Е	194m N	Electricity Substation	1991	180799
Е	194m N	Electricity Substation	1986	180799
Е	195m N	Electricity Substation	1993	180799
Ε	195m N	Electricity Substation	1996	180799
Е	195m N	Electricity Substation	1999	180799
Е	195m N	Electricity Substation	1993	180799
Α	222m NE	Electricity Substation	1981	185010
Α	222m NE	Electricity Substation	1984	185010
Α	222m NE	Electricity Substation	1989	185010
Α	222m NE	Electricity Substation	1990	185010
Α	222m NE	Electricity Substation	1990	185010
Α	222m NE	Electricity Substation	1991	185010
Α	222m NE	Electricity Substation	1986	185010
Α	223m NE	Electricity Substation	1978	185010
Α	223m NE	Electricity Substation	1993	185010
Α	223m NE	Electricity Substation	1996	185010
Α	223m NE	Electricity Substation	1999	185010
Α	223m NE	Electricity Substation	1993	185010
Α	228m NE	Gas Governor	1981	182770
Α	228m NE	Gas Governor	1984	182770
Α	228m NE	Gas Governor	1989	182770
Α	228m NE	Gas Governor	1990	182770
Α	228m NE	Gas Governor	1990	182770
Α	228m NE	Gas Governor	1991	182770
Α	228m NE	Gas Governor	1986	182770
Α	229m NE	Gas Governor	1978	182770
Α	230m NE	Gas Governor	1993	184978



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Land Use	Date	Group ID
Α	230m NE	Gas Governor	1996	184978
Α	230m NE	Gas Governor	1999	184978
А	230m NE	Gas Governor	1993	184978
А	264m NE	Gas Governor	1981	174287
А	264m NE	Gas Governor	1984	174287
Α	264m NE	Gas Governor	1989	174287
А	264m NE	Gas Governor	1990	174287
А	264m NE	Gas Governor	1990	174287
Α	264m NE	Gas Governor	1991	174287
Α	264m NE	Gas Governor	1986	174287
Α	264m NE	Gas Governor	1993	174287
Α	264m NE	Gas Governor	1996	174287
Α	264m NE	Gas Governor	1999	174287
Α	264m NE	Gas Governor	1993	174287
D	273m NW	Gas Governor	1981	184291
D	273m NW	Gas Governor	1984	184291
D	273m NW	Gas Governor	1989	184291
D	273m NW	Gas Governor	1990	184291
D	273m NW	Gas Governor	1990	184291
D	273m NW	Gas Governor	1991	184291
D	273m NW	Gas Governor	1986	184291
D	274m NW	Gas Governor	1993	185738
D	274m NW	Gas Governor	1996	185738
D	274m NW	Gas Governor	1999	185738
D	274m NW	Gas Governor	1993	185738
D	302m NW	Electricity Substation	1981	179616
D	302m NW	Electricity Substation	1984	179616
D	302m NW	Electricity Substation	1989	179616



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

D         302m NW         Electricity Substation         1990         179616           D         302m NW         Electricity Substation         1991         179616           D         302m NW         Electricity Substation         1986         179616           D         302m NW         Electricity Substation         1993         179616           D         302m NW         Electricity Substation         1996         179616           D         302m NW         Electricity Substation         1999         179616           D         302m NW         Electricity Substation         1993         179616           D         302m NW         Electricity Substation         1993         179616           D         319m NW         Gas Governor         1993         184041           D         319m NW         Gas Governor         1996         184041           D         319m NW         Gas Governor         1999         184041           D         319m NW         Gas Governor         1993         184041           D         321m NW         Gas Governor         1993         184041           D         321m NW         Gas Governor         1984         180338           <	ID	Location	Land Use	Date	Group ID
D         302m NW         Electricity Substation         1991         179616           D         302m NW         Electricity Substation         1986         179616           D         302m NW         Electricity Substation         1993         179616           D         302m NW         Electricity Substation         1999         179616           D         302m NW         Electricity Substation         1999         179616           D         302m NW         Electricity Substation         1993         179616           D         319m NW         Gas Governor         1993         184041           D         319m NW         Gas Governor         1996         184041           D         319m NW         Gas Governor         1999         184041           D         319m NW         Gas Governor         1993         184041           D         319m NW         Gas Governor         1993         184041           D         321m NW         Gas Governor         1981         180338           D         321m NW         Gas Governor         1984         180338           D         321m NW         Gas Governor         1990         180338           D <t< td=""><td>D</td><td>302m NW</td><td>Electricity Substation</td><td>1990</td><td>179616</td></t<>	D	302m NW	Electricity Substation	1990	179616
D         302m NW         Electricity Substation         1986         179616           D         302m NW         Electricity Substation         1993         179616           D         302m NW         Electricity Substation         1996         179616           D         302m NW         Electricity Substation         1999         179616           D         302m NW         Electricity Substation         1993         184041           D         319m NW         Gas Governor         1993         184041           D         319m NW         Gas Governor         1999         184041           D         319m NW         Gas Governor         1993         184041           D         319m NW         Gas Governor         1993         184041           D         319m NW         Gas Governor         1993         184041           D         321m NW         Gas Governor         1981         180338           D         321m NW         Gas Governor         1984         180338           D         321m NW         Gas Governor         1990         180338           D         321m NW         Gas Governor         1990         180338           D         321m NW<	D	302m NW	Electricity Substation	1990	179616
D         302m NW         Electricity Substation         1993         179616           D         302m NW         Electricity Substation         1996         179616           D         302m NW         Electricity Substation         1999         179616           D         302m NW         Electricity Substation         1993         184041           D         319m NW         Gas Governor         1996         184041           D         319m NW         Gas Governor         1999         184041           D         319m NW         Gas Governor         1993         184041           D         319m NW         Gas Governor         1993         184041           D         321m NW         Gas Governor         1981         180338           D         321m NW         Gas Governor         1984         180338           D         321m NW         Gas Governor         1990         180338           D         321m NW         Gas Governor         1990         180338           D         321m NW         Gas Governor         1991         180338           D         321m NW         Gas Governor         1991         180338           D         321m NW	D	302m NW	Electricity Substation	1991	179616
D         302m NW         Electricity Substation         1996         179616           D         302m NW         Electricity Substation         1999         179616           D         302m NW         Electricity Substation         1993         179616           D         319m NW         Gas Governor         1993         184041           D         319m NW         Gas Governor         1999         184041           D         319m NW         Gas Governor         1993         184041           D         319m NW         Gas Governor         1993         184041           D         321m NW         Gas Governor         1981         180338           D         321m NW         Gas Governor         1984         180338           D         321m NW         Gas Governor         1990         180338           D         321m NW         Gas Governor         1990         180338           D         321m NW         Gas Governor         1991         180338           D         321m NW         Gas Governor         1991         180338           D         321m NW         Gas Governor         1991         180338           D         339m NW         Ele	D	302m NW	Electricity Substation	1986	179616
D         302m NW         Electricity Substation         1999         179616           D         302m NW         Electricity Substation         1993         179616           D         319m NW         Gas Governor         1993         184041           D         319m NW         Gas Governor         1996         184041           D         319m NW         Gas Governor         1999         184041           D         319m NW         Gas Governor         1993         184041           D         321m NW         Gas Governor         1981         180338           D         321m NW         Gas Governor         1984         180338           D         321m NW         Gas Governor         1990         180338           D         321m NW         Gas Governor         1990         180338           D         321m NW         Gas Governor         1991         180338           D         321m NW         Gas Governor         1991         180338           D         321m NW         Gas Governor         1996         180338           D         339m NW         Electricity Substation         1993         175624           D         339m NW         Ele	D	302m NW	Electricity Substation	1993	179616
D       302m NW       Electricity Substation       1993       179616         D       319m NW       Gas Governor       1993       184041         D       319m NW       Gas Governor       1996       184041         D       319m NW       Gas Governor       1999       184041         D       319m NW       Gas Governor       1993       184041         D       321m NW       Gas Governor       1981       180338         D       321m NW       Gas Governor       1984       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1991       180338         D       321m NW       Gas Governor       1991       180338         D       321m NW       Gas Governor       1996       180338         D       339m NW       Electricity Substation       1993       175624         D       339m NW       Electricity Substation       1999       175624         D       339m NW       Electricity Substation       1993       175624         D       340m NW	D	302m NW	Electricity Substation	1996	179616
D       319m NW       Gas Governor       1993       184041         D       319m NW       Gas Governor       1996       184041         D       319m NW       Gas Governor       1999       184041         D       319m NW       Gas Governor       1993       184041         D       321m NW       Gas Governor       1981       180338         D       321m NW       Gas Governor       1989       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1991       180338         D       321m NW       Gas Governor       1991       180338         D       321m NW       Gas Governor       1996       180338         D       339m NW       Electricity Substation       1993       175624         D       339m NW       Electricity Substation       1999       175624         D       339m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1993       175624         D       340m NW	D	302m NW	Electricity Substation	1999	179616
D       319m NW       Gas Governor       1996       184041         D       319m NW       Gas Governor       1999       184041         D       319m NW       Gas Governor       1993       184041         D       321m NW       Gas Governor       1981       180338         D       321m NW       Gas Governor       1989       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1991       180338         D       321m NW       Gas Governor       1996       180338         D       339m NW       Electricity Substation       1993       175624         D       339m NW       Electricity Substation       1999       175624         D       339m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1993       175624	D	302m NW	Electricity Substation	1993	179616
D       319m NW       Gas Governor       1999       184041         D       319m NW       Gas Governor       1993       184041         D       321m NW       Gas Governor       1981       180338         D       321m NW       Gas Governor       1984       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1991       180338         D       321m NW       Gas Governor       1996       180338         D       339m NW       Electricity Substation       1993       175624         D       339m NW       Electricity Substation       1999       175624         D       339m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1993       175624	D	319m NW	Gas Governor	1993	184041
D       319m NW       Gas Governor       1993       184041         D       321m NW       Gas Governor       1981       180338         D       321m NW       Gas Governor       1984       180338         D       321m NW       Gas Governor       1999       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1991       180338         D       321m NW       Gas Governor       1986       180338         D       339m NW       Electricity Substation       1993       175624         D       339m NW       Electricity Substation       1999       175624         D       339m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1993       175624	D	319m NW	Gas Governor	1996	184041
D       321m NW       Gas Governor       1981       180338         D       321m NW       Gas Governor       1989       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1991       180338         D       321m NW       Gas Governor       1986       180338         D       339m NW       Electricity Substation       1993       175624         D       339m NW       Electricity Substation       1999       175624         D       339m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1993       175624	D	319m NW	Gas Governor	1999	184041
D       321m NW       Gas Governor       1984       180338         D       321m NW       Gas Governor       1989       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1991       180338         D       321m NW       Gas Governor       1986       180338         D       339m NW       Electricity Substation       1993       175624         D       339m NW       Electricity Substation       1999       175624         D       339m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1991       175624	D	319m NW	Gas Governor	1993	184041
D       321m NW       Gas Governor       1989       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1991       180338         D       321m NW       Gas Governor       1986       180338         D       339m NW       Electricity Substation       1993       175624         D       339m NW       Electricity Substation       1999       175624         D       339m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1981       175624	D	321m NW	Gas Governor	1981	180338
D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1991       180338         D       321m NW       Gas Governor       1986       180338         D       339m NW       Electricity Substation       1993       175624         D       339m NW       Electricity Substation       1999       175624         D       339m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1981       175624	D	321m NW	Gas Governor	1984	180338
D       321m NW       Gas Governor       1990       180338         D       321m NW       Gas Governor       1991       180338         D       321m NW       Gas Governor       1986       180338         D       339m NW       Electricity Substation       1993       175624         D       339m NW       Electricity Substation       1996       175624         D       339m NW       Electricity Substation       1999       175624         D       340m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1981       175624	D	321m NW	Gas Governor	1989	180338
D       321m NW       Gas Governor       1991       180338         D       321m NW       Gas Governor       1986       180338         D       339m NW       Electricity Substation       1993       175624         D       339m NW       Electricity Substation       1996       175624         D       339m NW       Electricity Substation       1999       175624         D       339m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1981       175624	D	321m NW	Gas Governor	1990	180338
D       321m NW       Gas Governor       1986       180338         D       339m NW       Electricity Substation       1993       175624         D       339m NW       Electricity Substation       1996       175624         D       339m NW       Electricity Substation       1999       175624         D       339m NW       Electricity Substation       1993       175624         D       340m NW       Electricity Substation       1981       175624	D	321m NW	Gas Governor	1990	180338
D         339m NW         Electricity Substation         1993         175624           D         339m NW         Electricity Substation         1996         175624           D         339m NW         Electricity Substation         1999         175624           D         339m NW         Electricity Substation         1993         175624           D         340m NW         Electricity Substation         1981         175624	D	321m NW	Gas Governor	1991	180338
D         339m NW         Electricity Substation         1996         175624           D         339m NW         Electricity Substation         1999         175624           D         339m NW         Electricity Substation         1993         175624           D         340m NW         Electricity Substation         1981         175624	D	321m NW	Gas Governor	1986	180338
D         339m NW         Electricity Substation         1999         175624           D         339m NW         Electricity Substation         1993         175624           D         340m NW         Electricity Substation         1981         175624	D	339m NW	Electricity Substation	1993	175624
D         339m NW         Electricity Substation         1993         175624           D         340m NW         Electricity Substation         1981         175624	D	339m NW	Electricity Substation	1996	175624
D 340m NW Electricity Substation 1981 175624	D	339m NW	Electricity Substation	1999	175624
	D	339m NW	Electricity Substation	1993	175624
D 340m NW Electricity Substation 1984 175624	D	340m NW	Electricity Substation	1981	175624
	D	340m NW	Electricity Substation	1984	175624
D 340m NW Electricity Substation 1989 175624	D	340m NW	Electricity Substation	1989	175624
D 340m NW Electricity Substation 1990 175624	D	340m NW	Electricity Substation	1990	175624
D 340m NW Electricity Substation 1990 175624	D	340m NW	Electricity Substation	1990	175624



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Land Use	Date	Group ID
D	340m NW	Electricity Substation	1991	175624
D	340m NW	Electricity Substation	1986	175624
7	373m W	Electricity Substation	1999	170275
G	381m N	Electricity Substation	1978	185157
G	382m N	Electricity Substation	1981	185157
G	382m N	Electricity Substation	1984	185157
G	382m N	Electricity Substation	1989	185157
G	382m N	Electricity Substation	1990	185157
G	382m N	Electricity Substation	1990	185157
G	382m N	Electricity Substation	1991	185157
G	382m N	Electricity Substation	1986	185157
G	382m N	Electricity Substation	1993	185157
G	382m N	Electricity Substation	1996	185157
G	382m N	Electricity Substation	1999	185157
G	382m N	Electricity Substation	1993	185157
G	384m N	Gas Governor	1978	171883
G	384m N	Gas Governor	1981	172746
G	384m N	Gas Governor	1984	171884
G	384m N	Gas Governor	1989	172313
G	384m N	Gas Governor	1990	172036
G	384m N	Gas Governor	1990	172747
G	384m N	Gas Governor	1991	172042
G	384m N	Gas Governor	1986	172748
G	385m N	Gas Governor	1993	172315
G	385m N	Gas Governor	1996	172750
G	385m N	Gas Governor	1999	173020
G	385m N	Gas Governor	1993	172693
Н	407m E	Electricity Substation	1989	177283



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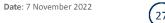


Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Land Use	Date	Group ID
Н	407m E	Electricity Substation	1986	177283
Н	407m E	Electricity Substation	1990	181448
Н	407m E	Electricity Substation	1996	181448
Н	407m E	Electricity Substation	1996	181448
Н	407m E	Electricity Substation	1993	181448
Н	407m E	Electricity Substation	1989	181448
I	412m NE	Gas Governor	1989	180724
I	412m NE	Gas Governor	1990	180724
I	412m NE	Gas Governor	1990	180724
I	412m NE	Gas Governor	1991	180724
I	412m NE	Gas Governor	1993	180724
I	412m NE	Gas Governor	1996	180724
I	412m NE	Gas Governor	1999	180724
Ι	412m NE	Gas Governor	1993	180724
J	419m E	Gas Governor	1996	184506
J	419m E	Gas Governor	1996	184506
J	419m E	Gas Governor	1993	184506
J	419m E	Gas Governor	1990	184506
I	420m NE	Electricity Substation	1993	173940
I	420m NE	Electricity Substation	1996	173940
I	420m NE	Electricity Substation	1999	173940
I	420m NE	Electricity Substation	1993	173940
I	420m NE	Electricity Substation	1981	173940
I	420m NE	Electricity Substation	1984	173940
I	420m NE	Electricity Substation	1989	173940
I	420m NE	Electricity Substation	1990	173940
I	420m NE	Electricity Substation	1990	173940
I	420m NE	Electricity Substation	1991	173940



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

1	ID	Location	Land Use	Date	Group ID
	I	420m NE	Electricity Substation	1986	173940
	I	420m NE	Electricity Substation	1989	186630
	I	420m NE	Electricity Substation	1990	186630
I       421m NE       Electricity Substation       1978       173940         I       422m NE       Electricity Substation       1993       186630         I       422m NE       Electricity Substation       1999       186630         I       422m NE       Electricity Substation       1993       186630         M       454m N       Gas Governor       1981       181786         M       454m N       Gas Governor       1984       181786         M       454m N       Gas Governor       1989       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1991       181786         M       454m N       Gas Governor       1991       181786         M       454m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       El	I	420m NE	Electricity Substation	1990	186630
I       422m NE       Electricity Substation       1993       186630         I       422m NE       Electricity Substation       1999       186630         I       422m NE       Electricity Substation       1999       186630         I       422m NE       Electricity Substation       1993       186630         M       454m N       Gas Governor       1981       181786         M       454m N       Gas Governor       1984       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1991       181786         M       454m N       Gas Governor       1991       181786         M       454m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity	I	420m NE	Electricity Substation	1991	186630
I       422m NE       Electricity Substation       1996       186630         I       422m NE       Electricity Substation       1999       186630         I       422m NE       Electricity Substation       1993       186630         M       454m N       Gas Governor       1981       181786         M       454m N       Gas Governor       1984       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1991       181786         M       454m N       Gas Governor       1991       181786         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       Electricity Substation       1984       186529	1	421m NE	Electricity Substation	1978	173940
I       422m NE       Electricity Substation       1999       186630         I       422m NE       Electricity Substation       1993       186630         M       454m N       Gas Governor       1981       181786         M       454m N       Gas Governor       1989       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1991       181786         M       454m N       Gas Governor       1996       181786         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       Electricity Substation       1984       186529	I	422m NE	Electricity Substation	1993	186630
I       422m NE       Electricity Substation       1993       186630         M       454m N       Gas Governor       1981       181786         M       454m N       Gas Governor       1989       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1991       181786         M       454m N       Gas Governor       1996       181786         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       Electricity Substation       1984       186529	I	422m NE	Electricity Substation	1996	186630
M       454m N       Gas Governor       1981       181786         M       454m N       Gas Governor       1989       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1991       181786         M       454m N       Gas Governor       1996       181786         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       Electricity Substation       1984       186529	I	422m NE	Electricity Substation	1999	186630
M       454m N       Gas Governor       1984       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1991       181786         M       454m N       Gas Governor       1986       181786         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       Electricity Substation       1984       186529	I	422m NE	Electricity Substation	1993	186630
M       454m N       Gas Governor       1989       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1991       181786         M       454m N       Gas Governor       1986       181786         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1996       180985         M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       Electricity Substation       1984       186529	M	454m N	Gas Governor	1981	181786
M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1991       181786         M       454m N       Gas Governor       1986       181786         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       Electricity Substation       1984       186529	M	454m N	Gas Governor	1984	181786
M       454m N       Gas Governor       1990       181786         M       454m N       Gas Governor       1991       181786         M       454m N       Gas Governor       1986       181786         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1996       180985         M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       Electricity Substation       1984       186529	M	454m N	Gas Governor	1989	181786
M       454m N       Gas Governor       1991       181786         M       454m N       Gas Governor       1986       181786         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1996       180985         M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       Electricity Substation       1984       186529	M	454m N	Gas Governor	1990	181786
M       454m N       Gas Governor       1986       181786         M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1996       180985         M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       Electricity Substation       1984       186529	M	454m N	Gas Governor	1990	181786
M       456m N       Gas Governor       1993       180985         M       456m N       Gas Governor       1996       180985         M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       Electricity Substation       1984       186529	M	454m N	Gas Governor	1991	181786
M       456m N       Gas Governor       1996       180985         M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       Electricity Substation       1984       186529	M	454m N	Gas Governor	1986	181786
M       456m N       Gas Governor       1999       180985         M       456m N       Gas Governor       1993       180985         M       458m N       Electricity Substation       1981       186529         M       458m N       Electricity Substation       1984       186529	Μ	456m N	Gas Governor	1993	180985
M         456m N         Gas Governor         1993         180985           M         458m N         Electricity Substation         1981         186529           M         458m N         Electricity Substation         1984         186529	M	456m N	Gas Governor	1996	180985
M         458m N         Electricity Substation         1981         186529           M         458m N         Electricity Substation         1984         186529	M	456m N	Gas Governor	1999	180985
M 458m N Electricity Substation 1984 186529	M	456m N	Gas Governor	1993	180985
	M	458m N	Electricity Substation	1981	186529
M 458m N Electricity Substation 1999 186529	Μ	458m N	Electricity Substation	1984	186529
436H N Electricity Substation 1363	M	458m N	Electricity Substation	1989	186529
M 458m N Electricity Substation 1990 186529	M	458m N	Electricity Substation	1990	186529
M 458m N Electricity Substation 1990 186529	M	458m N	Electricity Substation	1990	186529
M 458m N Electricity Substation 1991 186529	M	458m N	Electricity Substation	1991	186529
M 458m N Electricity Substation 1986 186529	M	458m N	Electricity Substation	1986	186529



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ID	Location	Land Use	Date	Group ID
M	459m N	Electricity Substation	1993	186529
M	459m N	Electricity Substation	1996	186529
M	459m N	Electricity Substation	1999	186529
M	459m N	Electricity Substation	1993	186529
Ν	460m N	Electricity Substation	1978	185985
Ν	462m N	Electricity Substation	1981	185985
N	462m N	Electricity Substation	1984	185985
Ν	462m N	Electricity Substation	1989	185985
Ν	462m N	Electricity Substation	1990	185985
Ν	462m N	Electricity Substation	1990	185985
Ν	462m N	Electricity Substation	1991	185985
Ν	462m N	Electricity Substation	1986	185985
Ν	463m N	Electricity Substation	1993	178077
Ν	463m N	Electricity Substation	1996	178077
Ν	463m N	Electricity Substation	1999	178077
Ν	463m N	Electricity Substation	1993	178077
0	497m S	Electricity Substation	1996	186175
0	497m S	Electricity Substation	1999	186175

This data is sourced from Ordnance Survey / Groundsure.

# 2.4 Historical petrol stations

Records within 500m 0

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

This data is sourced from Ordnance Survey / Groundsure.



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# 2.5 Historical garages

Records within 500m 0

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

This data is sourced from Ordnance Survey / Groundsure.



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# 3 Waste and landfill



#### 3.1 Active or recent landfill

Records within 500m 0

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

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

# 3.2 Historical landfill (BGS records)

Records within 500m 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.



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## 3.3 Historical landfill (LA/mapping records)

Records within 500m

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

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

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

Records within 500m 0

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

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

#### 3.5 Historical waste sites

Records within 500m 0

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

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

## 3.6 Licensed waste sites

Records within 500m 4

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on page 31

ID	Location	Details		
1	On site	Site Name: Miswa Chemicals Ltd Site Address: 54, Caswell Road, Blackmills Ind Est, Northampton, Northants, NN4 7PW Correspondence Address: -	Type of Site: Physico-Chemical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MIS004 EPR reference: EA/EPR/AP3398LQ/A001 Operator: Miswa Chemicals Ltd Waste Management licence No: 100477 Annual Tonnage: 44999	Issue Date: 28/04/2009 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Details		
В	62m NW	Site Name: In 4 Ltd Site Address: Unit 32, Lyveden Road, Brackmills Ind Est, Northampton, Northants, NN4 7ED Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SYN016 EPR reference: EA/EPR/BB3903GK/A001 Operator: In 4 Ltd Waste Management licence No: 401661 Annual Tonnage: 8000	Issue Date: 28/11/2014 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
F	281m N	Site Name: W P D Northampton Site Address: Kilvey Road, Brackmills, Northampton, Northants, NN4 7BQ Correspondence Address: -	Type of Site: Storage of electrical insulating oils Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WES714 EPR reference: EA/EPR/BB3500GA/A001 Operator: Western Power Distribution ( East Midlands ) Plc Waste Management licence No: 402986 Annual Tonnage: 500	Issue Date: 03/03/2016 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
F	300m N	Site Name: W P D Northampton Site Address: Kilvey Road, Brackmills, Northampton, NN4 7BQ Correspondence Address: -	Type of Site: Storage of electrical insulating oils Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WES714 EPR reference: EA/EPR/BB3500GA/A001 Operator: Western Power Distribution ( East Midlands ) P L C Waste Management licence No: 402986 Annual Tonnage: 500	Issue Date: 03/03/2016 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

## 3.7 Waste exemptions

Records within 500m 77

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 31



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Site	Reference	Category	Sub-Category	Description
А	46m <b>N</b>	21 Gallowhill Road, Brackmills, Northampton, NN4 7EE	EA/EPR/VP385 9AW/A001	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
В	60m NW	32 Lyveden Road Brackmills Industrial Estate Northampton NN4 7ED	EPR/FE5588E M/A001	Storing waste exemption	Both agricultural and non- agricultural waste	Storage of waste in a secure place
В	60m NW	32 Lyveden Road Brackmills Industrial Estate Northampton NN4 7ED	EPR/FE5588E M/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Mechanical treatment of end-of-life tyres
А	64m <b>N</b>	17-20 Galowhill Road NORTHAMPTON NN4 7EE	EPR/KF0132YB /A001	Treating waste exemption	Non- Agricultural Waste Only	Crushing waste fluorescent tubes
2	92m NE	22-24, HARBOROUGH ROAD, NORTHAMPTON, NN2 7AZ	WEX098849	Storing waste exemption	Not on a farm	Storage of waste in a secure place
С	92m SW	DHL TJX CDC Northampton, Gowerton Road, Brackmills Industrial Estate, Northampton, NN4 7BW	WEX279492	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
С	92m SW	DHL TJX CDC Northampton, Gowerton Road, Brackmills Industrial Estate, Northampton, NN4 7BW	WEX279492	Storing waste exemption	Not on a farm	Storage of waste in a secure place
С	92m SW	DHL TJX CDC Northampton, Gowerton Road, Brackmills Industrial Estate, Northampton, NN4 7BW	WEX279492	Treating waste exemption	Not on a farm	Sorting mixed waste
3	101m SE	-	WEX194855	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	149m N	21, GALLOWHILL ROAD, northampton, NN4 7EE	WEX150600	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	149m N	21, GALLOWHILL ROAD, northampton, NN4 7EE	WEX150600	Treating waste exemption	Not on a farm	Sorting mixed waste



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Site	Reference	Category	Sub-Category	Description
D	149m N	21, GALLOWHILL ROAD, northampton, NN4 7EE	WEX150600	Treating waste exemption	Not on a farm	Recovery of scrap metal
D	149m N	21, GALLOWHILL ROAD, NORTHAMPTON, NN4 7EE	WEX129399	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	149m N	21, GALLOWHILL ROAD, NORTHAMPTON, NN4 7EE	WEX129399	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	149m N	21, GALLOWHILL ROAD, NORTHAMPTON, NN4 7EE	WEX129399	Treating waste exemption	Not on a farm	Sorting mixed waste
D	149m N	21, GALLOWHILL ROAD, NORTHAMPTON, NN4 7EE	WEX129399	Treating waste exemption	Not on a farm	Manual treatment of waste
D	149m N	21, GALLOWHILL ROAD, NORTHAMPTON, NN4 7EE	WEX129399	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
D	149m N	21, GALLOWHILL ROAD, NORTHAMPTON, NN4 7EE	WEX129399	Treating waste exemption	Not on a farm	Recovery of textiles
D	149m N	21, GALLOWHILL ROAD, NORTHAMPTON, NN4 7EE	WEX129399	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	149m N	21, GALLOWHILL ROAD, NORTHAMPTON, NN4 7EE	WEX129399	Treating waste exemption	Not on a farm	Screening and blending of waste
D	149m N	21, GALLOWHILL ROAD, NORTHAMPTON, NN4 7EE	WEX129399	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	149m N	21, GALLOWHILL ROAD, NORTHAMPTON, NN4 7EE	WEX129399	Treating waste exemption	Not on a farm	Recovery of scrap metal
4	171m NE	51A, CASWELL ROAD, BRACKMILLS INDUSTRIAL ESTATE, NORTHAMPTON, NN4 7PW	WEX229850	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	190m NE	UNIT 21 GALLOWHILL ROAD, BRACKMILLS INDUSTRIAL ESTATE, NORTHAMPTON, NN4 7EE	WEX236822	Treating waste exemption	Not on a farm	Recovery of scrap metal
D	190m NE	UNIT 21 GALLOWHILL ROAD, BRACKMILLS INDUSTRIAL ESTATE, NORTHAMPTON, NN4 7EE	WEX236822	Storing waste exemption	Not on a farm	Storage of waste in a secure place



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ID	Location	Site	Reference	Category	Sub-Category	Description
D	190m NE	UNIT 21 GALLOWHILL ROAD, BRACKMILLS INDUSTRIAL ESTATE, NORTHAMPTON, NN4 7EE	WEX236822	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	190m NE	UNIT 21 GALLOWHILL ROAD, BRACKMILLS INDUSTRIAL ESTATE, NORTHAMPTON, NN4 7EE	WEX236822	Treating waste exemption	Not on a farm	Sorting mixed waste
D	190m NE	21, GALLOWHILL ROAD, northampton, NN4 7EE	WEX287498	Treating waste exemption	Not on a farm	Recovery of scrap metal
D	190m NE	21, GALLOWHILL ROAD, northampton, NN4 7EE	WEX287498	Treating waste exemption	Not on a farm	Sorting mixed waste
D	190m NE	21, GALLOWHILL ROAD, northampton, NN4 7EE	WEX287498	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	190m NE	-	WEX269821	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	190m NE	-	WEX269821	Treating waste exemption	Not on a farm	Recovery of textiles
D	190m NE	-	WEX269821	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	190m NE	-	WEX269821	Treating waste exemption	Not on a farm	Screening and blending of waste
D	190m NE	-	WEX269821	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	190m NE	-	WEX269821	Treating waste exemption	Not on a farm	Recovery of scrap metal
D	190m NE	-	WEX269821	Treating waste exemption	Not on a farm	Sorting mixed waste
D	190m NE	-	WEX269821	Treating waste exemption	Not on a farm	Manual treatment of waste
D	190m NE	-	WEX269821	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
D	190m NE	-	WEX269821	Storing waste exemption	Not on a farm	Storage of waste in secure containers



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ID	Location	Site	Reference	Category	Sub-Category	Description
E	235m NW	Alliance House Caswell Road Northampton Northamptonshire NN4 7PW	EPR/XF0001BK /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in secure containers
E	235m NW	Alliance House Caswell Road Northampton Northamptonshire NN4 7PW	EPR/XF0001BK /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place
E	235m NW	Alliance House Caswell Road Northampton Northamptonshire NN4 7PW	EPR/XF0001BK /A001	Treating waste exemption	Non- Agricultural Waste Only	Sorting mixed waste
E	235m NW	Alliance House Caswell Road Northampton Northamptonshire NN4 7PW	EPR/XF0001BK /A001	Treating waste exemption	Non- Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
5	249m N	HALCYON HOUSE, 3, PENNARD CLOSE, BRACKMILLS INDUSTRIAL ESTATE, NORTHAMPTON, NN4 7BE	WEX032719	Storing waste exemption	Not on a farm	Storage of waste in a secure place
Е	250m NW	47 Caswell Road Brackmills NN4 7PW	EPR/AE5650N E/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place
Е	250m NW	47 Caswell Road Brackmills NN4 7PW	EPR/AE5650N E/A001	Treating waste exemption	Non- Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
F	305m N	5, KILVEY ROAD, BRACKMILLS INDUSTRIAL ESTATE, NORTHAMPTON, NN4 7BQ	WEX275977	Storing waste exemption	Not on a farm	Storage of waste in a secure place
6	313m N	Halcyon House 3 Pennard Close NORTHAMPTON NN4 7BE	EPR/MH0372 WZ/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place
7	350m W	9, TUNGSTEN BUSINESS PARK, CASWELL ROAD, NORTHAMPTON, NN4 7PX	WEX274792	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	369m N	PENNARD CLOSE, BRACKMILLS INDUSTRIAL ESTATE, NORTHAMPTON, NN4 7BE	WEX221176	Treating waste exemption	Not on a farm	Recovery of scrap metal



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ID	Location	Site	Reference	Category	Sub-Category	Description
G	369m N	PENNARD CLOSE, BRACKMILLS INDUSTRIAL ESTATE, NORTHAMPTON, NN4 7BE	WEX221176	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	369m N	PENNARD CLOSE, BRACKMILLS INDUSTRIAL ESTATE, NORTHAMPTON, NN4 7BE	WEX075597	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	369m N	PENNARD CLOSE, BRACKMILLS INDUSTRIAL ESTATE, NORTHAMPTON, NN4 7BE	WEX075597	Treating waste exemption	Not on a farm	Recovery of scrap metal
G	371m N	Nemco Metals International Ltd Pennard Close NORTHAMPTON NN4 7BE	EPR/NE5787W K/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place
G	371m N	Nemco Metals International Ltd Pennard Close NORTHAMPTON NN4 7BE	EPR/NE5787W K/A001	Treating waste exemption	Non- Agricultural Waste Only	Recovery of scrap metal
Н	476m NE	Wickes Distribution Centre, Salthouse Road, Brackmills Industrial Estate, Northampton, NN4 7EX	WEX259166	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
Н	476m NE	Wickes Distribution Centre, Salthouse Road, Brackmills Industrial Estate, Northampton, NN4 7EX	WEX259166	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
Н	476m NE	Wickes Distribution Centre, Salthouse Road, Brackmills Industrial Estate, Northampton, NN4 7EX	WEX259166	Storing waste exemption	Not on a farm	Storage of waste in secure containers
Н	476m NE	Wickes Distribution Centre, Salthouse Road, Brackmills Industrial Estate, Northampton, NN4 7EX	WEX259166	Storing waste exemption	Not on a farm	Storage of waste in a secure place
I	486m NE	Dalepak Ltd 47 Caswell Road NN4 7PW	EPR/CE5440V D/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place
I	486m NE	Dalepak Ltd 47 Caswell Road NN4 7PW	EPR/CE5440V D/A001	Treating waste exemption	Non- Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Site	Reference	Category	Sub-Category	Description
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Storing waste exemption	Not on a farm	Storage of waste in a secure place
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Storing waste exemption	Not on a farm	Storage of waste in secure containers
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Treating waste exemption	Not on a farm	Recovery of silver
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Treating waste exemption	Not on a farm	Treatment of waste food
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Treating waste exemption	Not on a farm	Manual treatment of waste
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Treating waste exemption	Not on a farm	Sorting mixed waste
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Treating waste exemption	Not on a farm	Recovery of scrap metal
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Treating waste exemption	Not on a farm	Screening and blending of waste
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Treating waste exemption	Not on a farm	Recovery of textiles



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Site	Reference	Category	Sub-Category	Description
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
J	499m N	5 Osyth Close, Brackmills Industrial Estate, Northampton, NN4 7DY	WEX201101	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods

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



Date: 7 November 2022



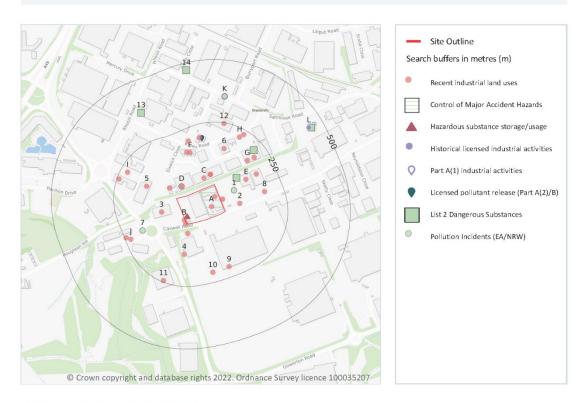
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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# 4 Current industrial land use



#### 4.1 Recent industrial land uses

Records within 250m 35

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 41

ID	Location	Company	Address	Activity	Category
Α	On site	Electricity Sub Station	Northamptonshire, NN4	Electrical Features	Infrastructure and Facilities
Α	On site	Miswa Chemicals Ltd	53-54, Caswell Road, Northampton, Northamptonshire, NN4 7PW	Cleaning Equipment and Supplies	Industrial Products



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Company	Address	Activity	Category
В	4m SW	Electricity Sub Station	Northamptonshire, NN4	Electrical Features	Infrastructure and Facilities
В	5m SW	Chimney	Northamptonshire, NN4	Chimneys	Industrial Features
А	9m E	Maritime Transport	52, Caswell Road, Northampton, Northamptonshire, NN4 7PW	Distribution and Haulage	Transport, Storage and Delivery
В	39m SW	Electricity Sub Station	Northamptonshire, NN4	Electrical Features	Infrastructure and Facilities
С	40m N	Fablink	29, Lyveden Road, Northampton, Northamptonshire, NN4 7ED	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
D	43m NW	Atosa Catering Equipment UK Ltd	32, Lyveden Road, Northampton, Northamptonshire, NN4 7ED	Food and Beverage Industry Machinery	Industrial Products
С	44m N	S A S Logistics Ltd	21, Galowhill Road, Northampton, Northamptonshire, NN4 7EE	Distribution and Haulage	Transport, Storage and Delivery
С	44m N	Safe & Secure Logistics	Unit 21 Galowhill Road, Brackmills Industrial Estate, Northampton, Northamptonshire, NN4 7EE	Distribution and Haulage	Transport, Storage and Delivery
D	50m NW	A C S Systems UK Ltd	Acs House, Oxwich Close, Northampton, Northamptonshire, NN4 7BH	Office and Shop Equipment	Industrial Products
2	65m E	Electricity Sub Station	Northamptonshire, NN4	Electrical Features	Infrastructure and Facilities
3	75m W	Becode Ltd	55-56, Caswell Road, Northampton, Northamptonshire, NN4 7PY	Fences, Gates and Railings	Industrial Products
4	121m S	Electricity Sub Station	Northamptonshire, NN4	Electrical Features	Infrastructure and Facilities
Е	125m NE	Harting	51, Caswell Road, Northampton, Northamptonshire, NN4 7PW	Electrical Components	Industrial Products
5	128m W	A C S Office Solutions	Oxwich Close, Northampton, Northamptonshire, NN4 7BH	Office and Shop Equipment	Industrial Products
6	149m <b>N</b>	Falcon Flooring Towcester Ltd	16, Galowhill Road, Northampton, Northamptonshire, NN4 7EE	Construction Completion Services	Construction Services



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Company	Address	Activity	Category
F	156m N	Nevitec Constructio n Ltd	26, Lyveden Road, Northampton, Northamptonshire, NN4 7ED	Lampshades and Lighting	Consumer Products
F	162m N	M Tek	27, Lyveden Road, Northampton, Northamptonshire, NN4 7ED	Vehicle Repair, Testing and Servicing	Repair and Servicing
G	163m NE	Doosan Industrial Vehicles UK Ltd	Doosan Industrial 12, Kilvey Road, Northampton, Northamptonshire, NN4 7BQ	Lifting and Handling Equipment	Industrial Products
Е	171m NE	lgus	51a, Caswell Road, Northampton, Northamptonshire, NN4 7PW	Rubber, Silicones and Plastics	Industrial Products
8	175m E	Cromadex	Caswell Road, Northampton, Northamptonshire, NN4 7PW	Industrial Coatings and Finishings	Industrial Products
G	193m NE	Rushlift Ltd	11, Kilvey Road, Northampton, Northamptonshire, NN4 7BQ	Lifting and Handling Equipment	Industrial Products
F	197m N	Truckeast Ltd	3, Kilvey Road, Northampton, Northamptonshire, NN4 7BQ	Vehicle Repair, Testing and Servicing	Repair and Servicing
F	201m N	Electricity Sub Station	Northamptonshire, NN4	Electrical Features	Infrastructure and Facilities
9	208m SE	Tank	Northamptonshire, NN4	Tanks (Generic)	Industrial Features
10	210m S	Daisy Group Plc	Unit C Compass Business Park, Caswell Road, Northampton, Northamptonshire, NN4 7PU	Radar and Telecommunications Equipment	Industrial Products
Н	215m NE	Electricity Sub Station	Northamptonshire, NN4	Electrical Features	Infrastructure and Facilities
I	221m NW	In 'n' Out	Brackmills Business Park, Caswell Road, Northampton, Northamptonshire, NN4 7PW	Vehicle Repair, Testing and Servicing	Repair and Servicing
J	229m SW	Electricity Sub Station	Northamptonshire, NN4	Electrical Features	Infrastructure and Facilities
Н	232m NE	Gas Governor Station	Northamptonshire, NN4	Gas Features	Infrastructure and Facilities
I	242m W	In N Out Auto Centres	Unit B Brackmills Business Park, Caswell Road, Northampton, Northamptonshire, NN4 7PW	Vehicle Repair, Testing and Servicing	Repair and Servicing
11	244m SW	Startech Com Ltd	Unit B Startechcom, Site B Pinnacle 15, Gowerton Road, Northampton, Northamptonshire, NN4 7BW	Electronic Equipment	Industrial Products



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ID	Location	Company	Address	Activity	Category
J	245m SW	Stertil Koni	Tungsten Park, Caswell Road, Northampton, Northamptonshire, NN4 7PW	Lifting and Handling Equipment	Industrial Products
12	247m N	Chaneco Ltd	4, Kilvey Road, Northampton, Northamptonshire, NN4 7BQ	Disability and Mobility Equipment	Consumer Products

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.



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## 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 41

ID	Location	Company	Address	Operational status	Tier
Α	On site	Miswa Chemicals Limited	Miswa Chemicals Limited, Northampton, 54 Caswell Road, Blackmills, Northampton, Northamptonshire, NN4 7PW	Current 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 1

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 41

10	)	Location	Details	
В		On site	Application reference number: No Details Application status: Approved Application date: No Details Address: MISWA Chemicals Ltd, 54, Cadwell Road, Brackmills, Northampton, Northamptonshire, England, NN4 7PW	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details

This data is sourced from Local Authority records.



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

## 4.9 Historical licensed industrial activities (IPC)

Records within 500m 3

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.

Features are displayed on the Current industrial land use map on page 41

ID	Location	Details	
L	440m NE	Operator: Abitec Ltd Address: Houghton Centre, Salthouse Road, Brackmills, Northampton, NN4 7EX Process: Manufacture And Use Of Organic Chemicals Permit Number: AT5739	Original Permit Number: IPCAPP Date Approved: 4-1-1996 Effective Date: 1-2-1996 Status: Superseded By Variation
L	440m NE	Operator: Abitec Ltd Address: Houghton Centre, Salthouse Road, Brackmills, Northampton, NN4 7EX Process: Manufacture And Use Of Organic Chemicals Permit Number: AV8330	Original Permit Number: IPCMINVAR Date Approved: 27-6-1996 Effective Date: 1-7-1996 Status: Superseded By Variation
L	440m <b>N</b> E	Operator: Abitec Ltd Address: Houghton Centre, Salthouse Road, Brackmills, Northampton, NN4 7EX Process: Manufacture And Use Of Organic Chemicals Permit Number: BD6182	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc

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

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

Records within 500m 4

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

Features are displayed on the Current industrial land use map on page 41

ID	Location	Details	
L	462m NE	Operator: DANISCO NORTHAMPTON LTD Installation Name: SALTHOUSE ROAD CHEMICAL WORKS Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: DP3930GF Original Permit Number: DP3930GF	EPR Reference: EA/EPR/DP3930GF/T001 Issue Date: 18/09/2008 Effective Date: 18/09/2008 Last date noted as effective: 13/06/2022 Status: SUPERCEDED



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**Ref**: GS-9180909 **Your ref**: MISWA **Grid ref**: 477549 258266

ID	Location	Details	
L	462m NE	Operator: DANISCO NORTHAMPTON LTD Installation Name: SALTHOUSE ROAD CHEMICAL WORKS Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: WP3935KD Original Permit Number: DP3930GF	EPR Reference: - Issue Date: - Effective Date: 22/01/2010 Last date noted as effective: 13/06/2022 Status: SURRENDER EFFECTIVE
L	462m NE	Operator: AB TECHNOLOGY LTD Installation Name: - Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: BU9416 Original Permit Number: BU9416	EPR Reference: - Issue Date: 27/02/2004 Effective Date: 27/02/2004 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
L	462m NE	Operator: ABITEC LTD Installation Name: AB TECHNOLOGY LTD Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: BU9416IL Original Permit Number: BU9416IL	EPR Reference: - Issue Date: 27/02/2004 Effective Date: 27/02/2004 Last date noted as effective: 13/06/2022 Status: SUPERCEDED

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

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

Records within 500m 1

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.

Features are displayed on the Current industrial land use map on page 41

ı	D	Location	Address	Details	
١	=	191m N	, , , , , , , , , , , , , , , , , , ,	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.



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#### 4.12 Radioactive Substance Authorisations

Records within 500m 0

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

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

## 4.13 Licensed Discharges to controlled waters

Records within 500m 0

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

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

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

Records within 500m

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.



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## 4.17 List 2 Dangerous Substances

Records within 500m 6

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.

Features are displayed on the Current industrial land use map on page 41

ID	Location	Name	Status	Receiving Water	Authorised Substances
Е	91m NE	Tesco Distribution Ltd	Not Active	Na	рН
G	209m NE	Dhl Express	Not Active	Na	рН
13	371m NW	The British Pepper & Spice Company Ltd	Not Active	Na	рН
L	449m NE	Abitec Ltd	Not Active	Na	рН
L	449m NE	Abitec Ltd	Not Active	Na	рН
14	471m N	Linkline Transport Limited	Not Active	Na	рН

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

## 4.18 Pollution Incidents (EA/NRW)

Records within 500m 5

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 41

ID	Location	Details	
D	43m NW	Incident Date: 21/04/2017 Incident Identification: 1517535 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
1	63m NE	Incident Date: 23/09/2008 Incident Identification: 623679 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)
7	172m SW	Incident Date: 19/11/2002 Incident Identification: 121710 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Details	
K	354m <b>N</b>	Incident Date: 15/07/2002 Incident Identification: 91762 Pollutant: Oils and Fuel Pollutant Description: Insulating and Cable Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
K	354m N	Incident Date: 15/07/2002 Incident Identification: 91762 Pollutant: Oils and Fuel Pollutant Description: Insulating and Cable Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

## 4.19 Pollution inventory substances

Records within 500m 0

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

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

## 4.20 Pollution inventory waste transfers

Records within 500m 0

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

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

## 4.21 Pollution inventory radioactive waste

Records within 500m 0

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

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



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# 5 Hydrogeology - Superficial aquifer



## 5.1 Superficial aquifer

Records within 500m 3

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on page 51

ID	Location	Designation	Description
1	122m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	267m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Designation	Description
3	459m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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



Date: 7 November 2022



Contact us with any questions at:



Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# **Bedrock aquifer**



## 5.2 Bedrock aquifer

Records within 500m 3

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on page 53

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
А	359m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Designation	Description
A	402m N	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



Date: 7 November 2022

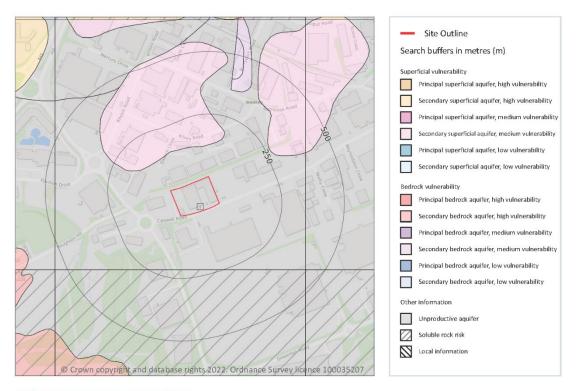


Contact us with any questions at:



Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

## **Groundwater vulnerability**



#### 5.3 Groundwater vulnerability

Records within 50m 1

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

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

Features are displayed on the Groundwater vulnerability map on page 55



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

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

## 5.4 Groundwater vulnerability- soluble rock risk

Records on site 0

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

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

## 5.5 Groundwater vulnerability- local information

Records on site 0

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

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



Date: 7 November 2022

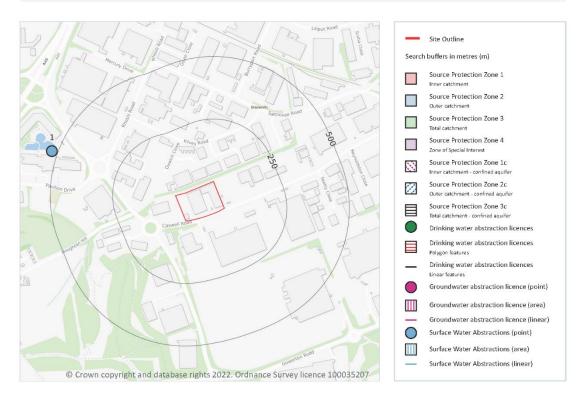


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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

## **Abstractions and Source Protection Zones**



### 5.6 Groundwater abstractions

## Records within 2000m

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

Features are displayed on the Abstractions and Source Protection Zones map on page 57



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Details	
-	820m S	Status: Historical Licence No: 5/32/05/*G/0027 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL, THE FARM, HARDINGSTONE Data Type: Point Name: PITTAMS Easting: 477400 Northing: 257400	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1995 Version End Date: -
-	1263m NW	Status: Active Licence No: 5/32/05/*G/0056 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: GRAVEL PIT IN PARK Data Type: Point Name: DELAPRE GOLF CENTRE LTD Easting: 476520 Northing: 259160	Annual Volume (m³): 9,092 Max Daily Volume (m³): 113.70 Original Application No: NS951 Original Start Date: 01/04/1977 Expiry Date: - Issue No: 101 Version Start Date: 01/05/2003 Version End Date: -
-	1374m NW	Status: Historical Licence No: 5/32/05/*G/0056 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: GRAVEL PIT IN PARK Data Type: Point Name: DELAPRE GOLF COMPLEX Easting: 476500 Northing: 259300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/04/1977 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1977 Version End Date: -
-	1706m N	Status: Active Licence No: 5/32/05/*G/0002 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL, ST ANDREWS HOSPITAL Data Type: Point Name: ST ANDREWS HOSPITAL Easting: 477100 Northing: 260000	Annual Volume (m³): 38,073 Max Daily Volume (m³): 156.42 Original Application No: - Original Start Date: 01/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/01/1966 Version End Date: -
-	1706m N	Status: Active Licence No: 5/32/05/*G/0002 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL, ST ANDREWS HOSPITAL Data Type: Point Name: ST ANDREWS HOSPITAL Easting: 477100 Northing: 260000	Annual Volume (m³): 38,073 Max Daily Volume (m³): 156.42 Original Application No: - Original Start Date: 01/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/01/1966 Version End Date: -

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



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## **5.7 Surface water abstractions**

Records within 2000m 4

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 57

ID	Location	Details	
1	524m W	Status: Active Licence No: AN/032/0005/014 Details: Heat Pump Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: UN-NAMED LAKE AT 1234 PAVILION DRIVE, NORTHAMPTON, NORTHAMPT Data Type: Point Name: Barclays Execution Services Limited Easting: 476968 Northing: 258495	Annual Volume (m³): 8,000 Max Daily Volume (m³): 216 Original Application No: NPS/WR/030319 Original Start Date: 13/05/2021 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 13/05/2021 Version End Date: -
-	1098m N	Status: Active Licence No: AN/032/0005/006 Details: Fish Pass/Canoe Pass Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER NENE AT NORTHAMPTON Data Type: Point Name: UKEliteSports Ltd Easting: 477386 Northing: 259448	Annual Volume (m³): 51,759  Max Daily Volume (m³): 263 Original Application No: NPS/WR/035987 Original Start Date: 07/06/2013 Expiry Date: 31/03/2029 Issue No: 2 Version Start Date: 09/08/2021 Version End Date: -
-	1147m N	Status: Historical Licence No: 5/32/05/*s/0067 Details: Fish Pass/Canoe Pass Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER NENE AT NORTHAMPTON Data Type: Point Name: NENE WHITEWATER CENTRE LTD Easting: 477400 Northing: 259500	Annual Volume (m³): 4,231,080 Max Daily Volume (m³): 11592 Original Application No: - Original Start Date: 01/11/1996 Expiry Date: - Issue No: 101 Version Start Date: 25/06/1999 Version End Date: -
-	1186m N	Status: Active Licence No: AN/032/0005/013 Details: Hydroelectric Power Generation Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: NENE WHITE WATER CENTRE Data Type: Point Name: Aquazoom Ltd Easting: 477425 Northing: 259544	Annual Volume (m³): 35,869,992 Max Daily Volume (m³): 172,800 Original Application No: NPS/WR/029859 Original Start Date: 22/03/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 22/03/2019 Version End Date: -

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



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#### 5.8 Potable abstractions

Records within 2000m 1

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

Features are displayed on the Abstractions and Source Protection Zones map on page 57

ID	Location	Details	
-	1706m N	Status: Active Licence No: 5/32/05/*G/0002 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL, ST ANDREWS HOSPITAL Data Type: Point Name: ST ANDREWS HOSPITAL Easting: 477100 Northing: 260000	Annual Volume (m³): 38,073 Max Daily Volume (m³): 156.42 Original Application No: - Original Start Date: 01/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/01/1966 Version End Date: -

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

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

Records within 500m 0

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

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

## 5.10 Source Protection Zones (confined aquifer)

Records within 500m 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.



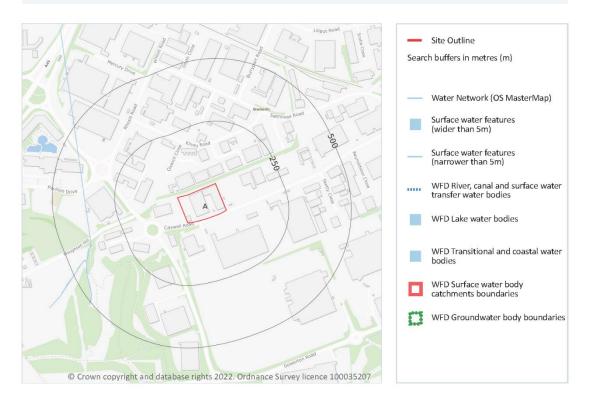
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## 6 Hydrology



## 6.1 Water Network (OS MasterMap)

Records within 250m

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

This data is sourced from the Ordnance Survey.

#### 6.2 Surface water features

Records within 250m 0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.



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This data is sourced from the Ordnance Survey.

#### 6.3 WFD Surface water body catchments

Records on site 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 61

ID	Location	Туре	Water body catchment	Water body ID	Operational catchment	Management catchment
Α	On site	River	Nene - conf Brampton Branch to	GB105032045050	Nene Middle	Nene

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

#### 6.4 WFD Surface water bodies

Records identified 1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on page 61

ID	Location	Туре	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1044m N	River	Nene - conf Brampton Branch to conf Ise	GB105032045050	Moderate	Fail	Moderate	2019

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



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## **6.5 WFD Groundwater bodies**

Records on site 1

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

Features are displayed on the Hydrology map on page 61

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
Α	On site	Nene Mid Lower Jurassic Unit	GB40502G402400	Good	Good	Good	2019

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



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## 7 River and coastal flooding

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

Records within 50m 0

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).

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

#### 7.2 Historical Flood Events

Records within 250m 0

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

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

#### 7.3 Flood Defences

Records within 250m

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

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



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## 7.4 Areas Benefiting from Flood Defences

Records within 250m 0

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

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

### 7.5 Flood Storage Areas

Records within 250m

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

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



Date: 7 November 2022



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## River and coastal flooding - Flood Zones

## 7.6 Flood Zone 2

Records within 50m

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

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

#### 7.7 Flood Zone 3

Records within 50m 0

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

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



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## 8 Surface water flooding



#### 8.1 Surface water flooding

Highest risk on site 1 in 30 year, 0.3m - 1.0m

Highest risk within 50m 1 in 30 year, 0.3m - 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on page 67

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



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

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

This data is sourced from Ambiental Risk Analytics.



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# 9 Groundwater flooding



## 9.1 Groundwater flooding

Highest risk on site	Negligible
Highest risk within 50m	Negligible

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on page 69

This data is sourced from Ambiental Risk Analytics.



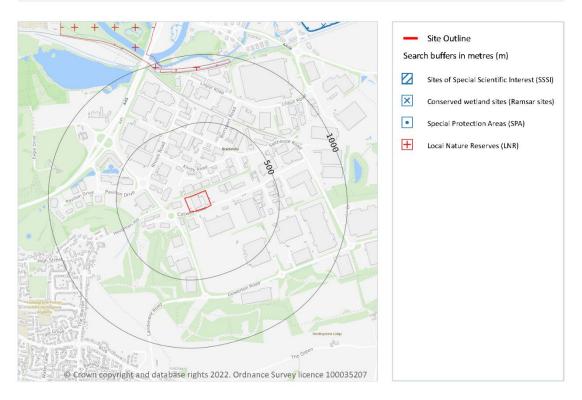
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## 10 Environmental designations



## 10.1 Sites of Special Scientific Interest (SSSI)

## Records within 2000m

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

Features are displayed on the Environmental designations map on page 70

ID	Location	Name	Data source
Α	1398m NE	Upper Nene Valley Gravel Pits	Natural England



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

## 10.2 Conserved wetland sites (Ramsar sites)

#### Records within 2000m

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

Features are displayed on the Environmental designations map on page 70

ID	Location	Site	Details
A	1397m NE	Name: Upper Nene Valley Gravel Pits Site status: Listed Data source: Natural England	Overview: This chain of both active and disused sand and gravel pits form an extensive series of shallow and deep open waters which occur in association with a wide range of marginal features, such as sparsely-vegetated islands, gravel bars and shorelines and habitats including reedswamp, marsh, wet ditches, rush pasture, rough grassland and scattered scrub. This range of habitats and the varied topography of the lagoons provide valuable resting and feeding conditions for concentrations of wintering waterbirds, especially ducks and waders. Species such as golden plover Pluvialis apricaria and lapwing Vanellus vanellus also spend time feeding and roosting on surrounding agricultural land outside the Ramsar site.

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

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

#### Records within 2000m 0

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

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



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#### 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 70

ID	Location	Name	Species of interest	Habitat description	Data source
Α	1398m NE	Upper Nene Valley Gravel Pits	Great crested grebe; Great cormorant; Great bittern; Eurasian wigeon; Gadwall; Mallard; Northern shoveler; Common pochard; Tufted duck; Common coot; European golden plover; Northern lapwing	Inland water bodies (Standing water, Running water); Bogs, Marshes, Water fringed vegetation, Fens; Broad-leaved deciduous woodland; Improved grassland	Natural Englan d

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

### 10.5 National Nature Reserves (NNR)

Records within 2000m	0
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Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

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

## 10.6 Local Nature Reserves (LNR)

#### Records within 2000m

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

Features are displayed on the Environmental designations map on page 70

ID	Location	Name	Data source
1	882m N	Barnes Meadow	Natural England

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



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#### 10.7 Designated Ancient Woodland

Records within 2000m 0

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

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

#### 10.8 Biosphere Reserves

Records within 2000m

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

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.



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#### 10.12 Proposed Ramsar sites

#### Records within 2000m

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

This data is sourced from Natural England.

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

#### Records within 2000m

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

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

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

#### Records within 2000m

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

This data is sourced from Natural England.

#### 10.15 Nitrate Sensitive Areas

#### Records within 2000m

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

This data is sourced from Natural England.



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## 10.16 Nitrate Vulnerable Zones

Records within 2000m 3

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.

Location	Name	Туре	NVZ ID	Status
On site	River Nene NVZ	Surface Water	382	Existing
On site	Northampton Sands	Groundwater	165	Existing
On site	Thrapstone lake Eutrophic lake NVZ	Eutrophic Water	148	Existing

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



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## **SSSI Impact Zones and Units**



## 10.17 SSSI Impact Risk Zones

Records on site 1

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

Features are displayed on the SSSI Impact Zones and Units map on page 76



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ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals.  Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.  Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction.  Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha.  Residential - Any residential developments with a total net gain in residential units.  Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units.  Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).  Combustion - General combustion processes > 20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.  Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.  Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.  Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.  Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.

This data is sourced from Natural England.

# 10.18 SSSI Units

Records within 2000m 1

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

Features are displayed on the SSSI Impact Zones and Units map on page 76

ID:

Location: 1398m NE

SSSI name: Upper Nene Valley Gravel Pits
Unit name: Clifford Hills Gravel Pits

Broad habitat: Standing Open Water And Canals Condition: Unfavourable - No change

Reportable features:



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

Feature name	Feature condition	Date of assessment
>20,000 Non-breeding waterbirds	Favourable	05/08/2020
Aggregations of breeding birds - Grey heron, Ardea cinerea	Favourable	26/11/2009
Aggregations of non-breeding birds - Bittern, Botaurus stellaris	Favourable	05/08/2020
Aggregations of non-breeding birds - Coot, Fulica atra	Favourable	05/08/2020
Aggregations of non-breeding birds - Cormorant, Phalacrocorax carbo carbo	Favourable	05/08/2020
Aggregations of non-breeding birds - Gadwall, Anas strepera	Favourable	05/08/2020
Aggregations of non-breeding birds - Golden plover, Pluvialis apricaria	Unfavourable - No change	05/08/2020
Aggregations of non-breeding birds - Great crested grebe, Podiceps cristatus	Favourable	05/08/2020
Aggregations of non-breeding birds - Mute swan, Cygnus olor	Favourable	05/08/2020
Aggregations of non-breeding birds - Pochard, Aythya ferina	Favourable	05/08/2020
Aggregations of non-breeding birds - Shoveler, Anas clypeata	Favourable	05/08/2020
Aggregations of non-breeding birds - Tufted duck, Aythya fuligula	Favourable	05/08/2020
Aggregations of non-breeding birds - Wigeon, Anas penelope	Unfavourable - No change	05/08/2020
Assemblages of breeding birds - Lowland open waters and their margins	Favourable	26/11/2009

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



Date: 7 November 2022



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

## 11 Visual and cultural designations

#### 11.1 World Heritage Sites

Records within 250m

0

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

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

## 11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

#### 11.3 National Parks

Records within 250m

0

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

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

#### 11.4 Listed Buildings

Records within 250m

0

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



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

#### 11.5 Conservation Areas

Records within 250m 0

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

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

#### 11.6 Scheduled Ancient Monuments

Records within 250m

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

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

## 11.7 Registered Parks and Gardens

Records within 250m 0

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

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



Date: 7 November 2022



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# 12 Agricultural designations



### 12.1 Agricultural Land Classification

Records within 250m 2

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

Features are displayed on the Agricultural designations map on page 81

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.



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П	D	Location	Classification	Description
2		32m NW	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

This data is sourced from Natural England.

### 12.2 Open Access Land

Records within 250m

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

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

### 12.3 Tree Felling Licences

Records within 250m

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

Features are displayed on the Agricultural designations map on page 81

ID	Location	Description	Reference	Application date
3	139m SW	Selective Fell/Thin (Unconditional)	017/357/14-15	06/01/2015

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.



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0



TANK 65M FROM MISWA CHEMICALS LTD, 54 CASWELL ROAD 18M FROM UNNAMED ROAD, CASWELL ROAD, NORTHAMPTON, NN4 7PW Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# 12.5 Countryside Stewardship Schemes

Records within 250m

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

This data is sourced from Natural England.



Date: 7 November 2022

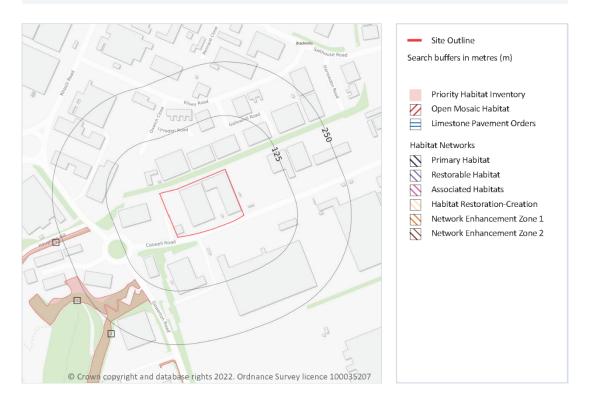


Contact us with any questions at:



Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# 13 Habitat designations



# 13.1 Priority Habitat Inventory

Records within 250m 3

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

Features are displayed on the Habitat designations map on page 84

ID	Location	Main Habitat	Other habitats				
1	139m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)				
2	147m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)				
3	182m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)				
TL:	This date is account from National Scaland						

This data is sourced from Natural England.



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### 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

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.



Date: 7 November 2022



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# 14 Geology 1:10,000 scale - Availability



# 14.1 10k Availability

Records within 500m 1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset 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 86

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SP75NE

This data is sourced from the British Geological Survey.



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# 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.



Date: 7 November 2022

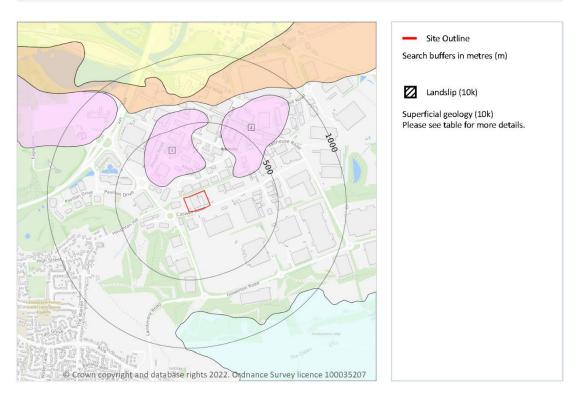


Contact us with any questions at:



Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# Geology 1:10,000 scale - Superficial



# 14.3 Superficial geology (10k)

Records within 500m 2

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on page 88

ID	Location	LEX Code	Description	Rock description
1	147m N	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel
2	242m NE	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.



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0



TANK 65M FROM MISWA CHEMICALS LTD, 54 CASWELL ROAD 18M FROM UNNAMED ROAD, CASWELL ROAD, NORTHAMPTON, NN4 7PW **Ref**: GS-9180909 **Your ref**: MISWA **Grid ref**: 477549 258266

# 14.4 Landslip (10k)

Records within 500m

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

This data is sourced from the British Geological Survey.



Date: 7 November 2022

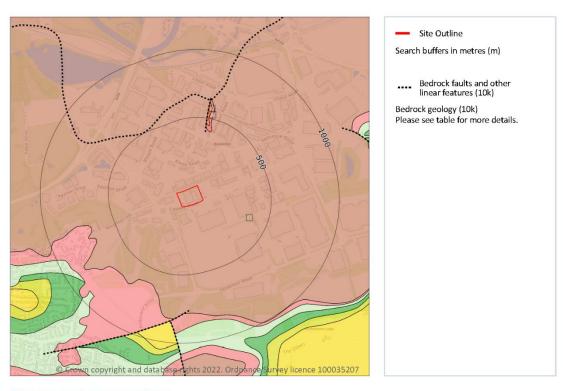


Contact us with any questions at:



Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# Geology 1:10,000 scale - Bedrock



### 14.5 Bedrock geology (10k)

Records within 500m 3

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on page 90

ID	Location	LEX Code	Description	Rock age
1	On site	WHM- MDST	Whitby Mudstone Formation - Mudstone	Toarcian Age
3	406m N	MRB-FLMST	Marlstone Rock Formation - Ferruginous Limestone	Toarcian Age - Pliensbachian Age
4	446m N	DYS-SIMD	Dyrham Formation - Siltstone And Mudstone, Interbedded	Pliensbachian Age



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**Ref**: GS-9180909 **Your ref**: MISWA **Grid ref**: 477549 258266

This data is sourced from the British Geological Survey.

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

Records within 500m 1

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on page 90

ID	Location	Category	Description
2	398m N	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.



Date: 7 November 2022

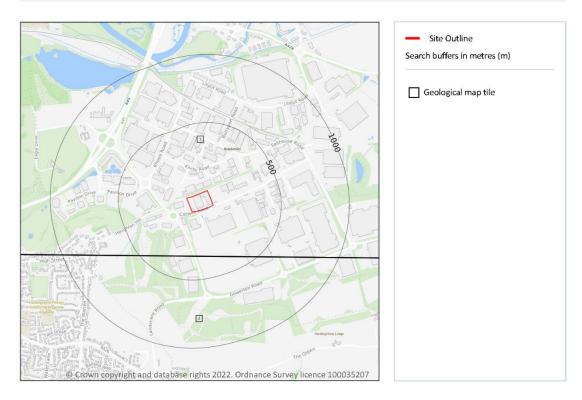


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# 15 Geology 1:50,000 scale - Availability



# 15.1 50k Availability

Records within 500m 2

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

Features are displayed on the Geology 1:50,000 scale - Availability map on page 92

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW185_northampton_v4
2	324m S	Full	Full	Full	Full	EW202_towcester_v4

This data is sourced from the British Geological Survey.



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

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

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

Records within 500m

0

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

This data is sourced from the British Geological Survey.

### 15.3 Artificial ground permeability (50k)

Records within 50m

0

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

This data is sourced from the British Geological Survey.



Date: 7 November 2022

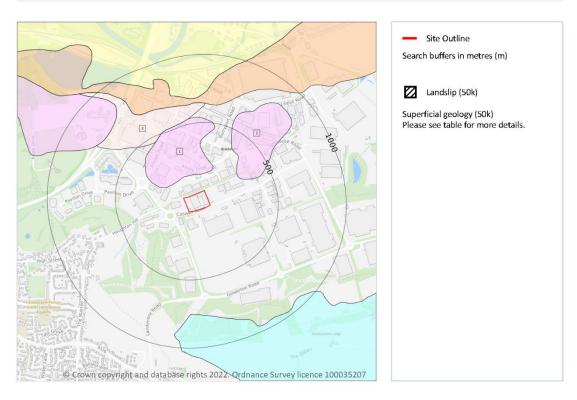


Contact us with any questions at:



Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# Geology 1:50,000 scale - Superficial



# 15.4 Superficial geology (50k)

Records within 500m 3

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 94

ID	Location	LEX Code	Description	Rock description
1	122m N	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
2	267m NE	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
3	459m NW	GLLMP-XCZ	GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE	CLAY AND SILT

This data is sourced from the British Geological Survey.



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**Ref**: GS-9180909 **Your ref**: MISWA **Grid ref**: 477549 258266

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

This data is sourced from the British Geological Survey.

### 15.6 Landslip (50k)

Records within 500m

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

This data is sourced from the British Geological Survey.

### 15.7 Landslip permeability (50k)

Records within 50m 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.



Date: 7 November 2022

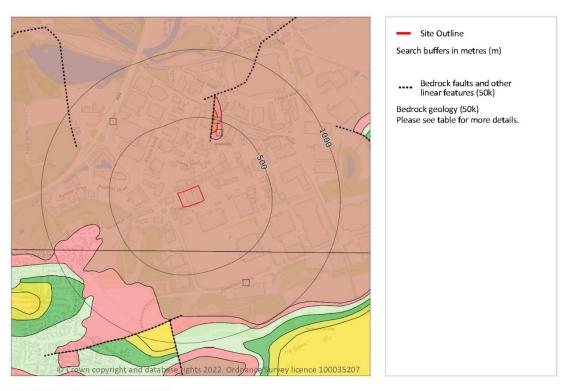


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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# Geology 1:50,000 scale - Bedrock



### 15.8 Bedrock geology (50k)

Records within 500m 4

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 96

ID	Location	LEX Code	Description	Rock age
1	On site	WHM- MDST	WHITBY MUDSTONE FORMATION - MUDSTONE	TOARCIAN
2	324m S	WHM-MDST	WHITBY MUDSTONE FORMATION - MUDSTONE	TOARCIAN
4	359m N	MRB-FLMST	MARLSTONE ROCK FORMATION - LIMESTONE,	PLIENSBACHIAN



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ID	Location	LEX Code	Description	Rock age
5	402m N	DYS-SIMD	DYRHAM FORMATION - SILTSTONE AND MUDSTONE, INTERBEDDED	PLIENSBACHIAN

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).

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

This data is sourced from the British Geological Survey.

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

Records within 500m 1

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on page 96

ID	Location	Category	Description
3	335m N	FAULT	Fault, observed

This data is sourced from the British Geological Survey.



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# 16 Boreholes



### 16.1 BGS Boreholes

Records within 250m 34

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 98

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	6m SE	477640 258250	BRACKMILLS NORTHAMPTON TP4	3.4	N	<u>17674116</u>
2	21m N	477600 258390	HARDINGSTONE INDUSTRIAL AREA 146	3.0	N	343690
3	23m NW	477460 258340	HARDINGSTONE INDUSTRIAL AREA 149	-1.0	Ν	343693



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

4         59m NW         477470 258380         HARDINGSTONE INDUSTRIAL AREA 145         3.0         N         343688           5         84m SW         477441 258157         BRACKMILLS SITE P NORTHAMPTON NH259         7.0         N         17691124           6         91m NE         477690 258420         HARDINGSTONE INDUSTRIAL AREA 147         3.0         N         343692           7         101m W         477590 258480         HARDINGSTONE INDUSTRIAL AREA 148         3.0         N         343680           8         110m N         477431 258150         BRACKMILLS SITE P NORTHAMPTON TP NH265         3.5         N         17691131           10         111m NW         477450 258300         HARDINGSTONE INDUSTRIAL AREA 144         3.0         N         343688           11         113m SW         477450 258100         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON NH258         7.0         N         176991123           A         126m SW         477460 258091         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP NH264         2.6         N         176991124           12         132m NE         477460 258091         HARDINGSTONE INDUSTRIAL AREA 135         5.0         N         236681           12         132m NE         47749 258363         HARDINGSTONE INDUSTRIAL AREA	ID	Location	Grid reference	Name	Length	Confidential	Web link
Name	4	59m NW	477470 258380	HARDINGSTONE INDUSTRIAL AREA 145	3.0	Ν	343689
101m W	5	84m SW	477441 258157	BRACKMILLS SITE P NORTHAMPTON NH259	7.0	Ν	17691124
110m N	6	91m NE	477690 258420	HARDINGSTONE INDUSTRIAL AREA 147	3.0	Ν	343691
110m SW	7	101m W	477360 258310	HARDINGSTONE INDUSTRIAL AREA 148	3.0	Ν	343692
10	8	110m N	477590 258480	HARDINGSTONE INDUSTRIAL AREA 136	3.0	Ν	343680
11 13m SW 477429 258128 BRACKMILLS SITE P NORTHAMPTON NH258 7.0 N 17691123  A 126m SW 477450 258100 BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON 144  A 130m SW 477460 258091 BRACKMILLS SITE P NORTHAMPTON TP NH264 2.6 N 17691130  12 132m NE 477690 258480 HARDINGSTONE INDUSTRIAL AREA 138 3.0 N 343682  13 137m N 477490 258470 HARDINGSTONE INDUSTRIAL AREA 135 5.0 N 343661  15 154m S 477474 258063 BRACKMILLS SITE P NORTHAMPTON TP NH263 2.5 N 17691129  16 158m SW 477350 258170 BRACKMILLS INDUSTRIAL AREA 137 5.0 N 343681  17 178m NW 477370 258470 HARDINGSTONE INDUSTRIAL AREA 134 3.0 N 343678  18 182m SW 477350 258170 BRACKMILLS INDUSTRIAL AREA 134 3.0 N 343678  18 182m SW 477380 258080 BRACKMILLS INDUSTRIAL AREA 134 3.0 N 343678  19 182m W 477290 258380 HARDINGSTONE INDUSTRIAL AREA 143 3.0 N 343687  20 189m S 477487 258026 BRACKMILLS SITE P NORTHAMPTON TP NH262 2.5 N 176991128  21 215m NW 477300 258460 HARDINGSTONE INDUSTRIAL AREA 133 3.0 N 343677  B 216m S 477480 25800 BRACKMILLS INDUSTRIAL AREA 133 3.0 N 343677  B 216m S 477480 25800 BRACKMILLS INDUSTRIAL AREA 139 3.0 N 343687  22 218m NE 477790 258500 HARDINGSTONE INDUSTRIAL AREA 139 3.0 N 343683  B 222m S 477490 257993 BRACKMILLS INDUSTRIAL AREA 139 3.0 N 343683  B 222m S 477690 25800 HARDINGSTONE INDUSTRIAL AREA 139 3.0 N 343669  22 218m NE 477690 25800 HARDINGSTONE INDUSTRIAL AREA 139 3.0 N 343669  BRACKMILLS INDUSTRIAL AREA 139 3.0 N 343669  22 228m N 477690 25800 HARDINGSTONE INDUSTRIAL AREA 139 3.0 N 343669  BRACKMILLS INDUSTRIAL AREA 125 -1.0 N 343669	9	110m SW	477413 258150	BRACKMILLS SITE P NORTHAMPTON TP NH265	3.5	Ν	<u>17691131</u>
A         126m SW         477450 258100         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON I 44         6.0         N         17679677           A         130m SW         477460 258091         BRACKMILLS SITE P NORTHAMPTON TP NH264         2.6         N         17691130           12         132m NE         477690 258480         HARDINGSTONE INDUSTRIAL AREA 138         3.0         N         343682           13         137m N         477490 258470         HARDINGSTONE INDUSTRIAL AREA 135         5.0         N         343679           14         139m N         477590 258510         HARDINGSTONE INDUSTRIAL AREA 137         5.0         N         343681           15         154m S         477474 258063         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP NH263         2.5         N         17691129           16         158m SW         477370 258470         HARDINGSTONE INDUSTRIAL ESTATE NORTHAMPTON TP NH263         3.0         N         343678           18         182m SW         477380 258080         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP NH263         3.0         N         343687           19         182m W         477290 258380         HARDINGSTONE INDUSTRIAL AREA 143         3.0         N         343687           20         189m S         477487 258026	10	111m NW	477370 258380	HARDINGSTONE INDUSTRIAL AREA 144	3.0	Ν	343688
A         130m SW         477460 258091         BRACKMILLS SITE P NORTHAMPTON TP NH264         2.6         N         17691130           12         132m NE         477690 258480         HARDINGSTONE INDUSTRIAL AREA 138         3.0         N         343682           13         137m N         477490 258470         HARDINGSTONE INDUSTRIAL AREA 135         5.0         N         343679           14         139m N         477590 258510         HARDINGSTONE INDUSTRIAL AREA 137         5.0         N         343681           15         154m S         477474 258063         BRACKMILLS SITE P NORTHAMPTON TP NH263         2.5         N         176991129           16         158m SW         477350 258170         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP NH263         3.0         N         343678           17         178m NW         477380 258080         BRACKMILLS INDUSTRIAL AREA 134         3.0         N         343678           18         182m SW         477487 258026         BRACKMILLS SITE P NORTHAMPTON TP NH262         2.5         N         176991128           20         189m S         477487 258026         BRACKMILLS SITE P NORTHAMPTON TP NH262         2.5         N         17699128           B         216m S         477480 258000         BRACKMILLS INDUSTRIAL AR	11	113m SW	477429 258128	BRACKMILLS SITE P NORTHAMPTON NH258	7.0	Ν	<u>17691123</u>
12       132m NE       477690 258480       HARDINGSTONE INDUSTRIAL AREA 138       3.0       N       343682         13       137m N       477490 258470       HARDINGSTONE INDUSTRIAL AREA 135       5.0       N       343679         14       139m N       477590 258510       HARDINGSTONE INDUSTRIAL AREA 137       5.0       N       343681         15       154m S       477474 258063       BRACKMILLS SITE P NORTHAMPTON TP NH263       2.5       N       17691129         16       158m SW       477350 258170       BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP R6       3.0       N       343678         17       178m NW       477370 258470       HARDINGSTONE INDUSTRIAL AREA 134       3.0       N       343678         18       182m SW       477380 258080       BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP R7       3.0       N       343687         20       189m S       477487 258026       BRACKMILLS SITE P NORTHAMPTON TP NH262       2.5       N       17691128         21       215m NW       477300 258460       HARDINGSTONE INDUSTRIAL AREA 133       3.0       N       343677         B       216m S       477480 258000       BRACKMILLS SINDUSTRIAL AREA 139       3.0       N       343683         B       222m S	Α	126m SW	477450 258100		6.0	Ν	<u>17679677</u>
13         137m N         477490 258470         HARDINGSTONE INDUSTRIAL AREA 135         5.0         N         343679           14         139m N         477590 258510         HARDINGSTONE INDUSTRIAL AREA 137         5.0         N         343681           15         154m S         477474 258063         BRACKMILLS SITE P NORTHAMPTON TP NH263         2.5         N         17691129           16         158m SW         477350 258170         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP R6         3.0         N         343678           17         178m NW         477370 258470         HARDINGSTONE INDUSTRIAL AREA 134         3.0         N         343678           18         182m SW         477380 258080         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP R7         3.0         N         343687           20         189m S         477487 258026         BRACKMILLS SITE P NORTHAMPTON TP NH262         2.5         N         17691128           21         215m NW         477300 258460         HARDINGSTONE INDUSTRIAL AREA 133         3.0         N         343687           22         218m NE         477480 258000         BRACKMILLS INDUSTRIAL AREA 139         3.0         N         343683           B         222m S         477499 257993         BRACKMILLS SITE P NORTHAMPTON	Α	130m SW	477460 258091	BRACKMILLS SITE P NORTHAMPTON TP NH264	2.6	Ν	<u>17691130</u>
14       139m N       477590 258510       HARDINGSTONE INDUSTRIAL AREA 137       5.0       N       343681         15       154m S       477474 258063       BRACKMILLS SITE P NORTHAMPTON TP NH263       2.5       N       176991129         16       158m SW       477350 258170       BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP R6       3.0       N       343678         17       178m NW       477370 258470       HARDINGSTONE INDUSTRIAL AREA 134       3.0       N       343678         18       182m SW       477380 258080       BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP R7       3.0       N       343687         20       189m S       477487 258026       BRACKMILLS SITE P NORTHAMPTON TP NH262       2.5       N       176991128         21       215m NW       477300 258460       HARDINGSTONE INDUSTRIAL AREA 133       3.0       N       343677         B       216m S       477480 258000       BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP NH262       12.0       N       17679686         22       218m NE       477790 258500       HARDINGSTONE INDUSTRIAL AREA 139       3.0       N       343683         B       222m S       477499 257993       BRACKMILLS SITE P NORTHAMPTON TP NH261       2.5       N       17691127 <t< td=""><td>12</td><td>132m NE</td><td>477690 258480</td><td>HARDINGSTONE INDUSTRIAL AREA 138</td><td>3.0</td><td>Ν</td><td>343682</td></t<>	12	132m NE	477690 258480	HARDINGSTONE INDUSTRIAL AREA 138	3.0	Ν	343682
15         154m S         477474 258063         BRACKMILLS SITE P NORTHAMPTON TP NH263         2.5         N         17691129           16         158m SW         477350 258170         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP R6         3.0         N         17679315           17         178m NW         477370 258470         HARDINGSTONE INDUSTRIAL AREA 134         3.0         N         343678           18         182m SW         477380 258080         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP R7         3.0         N         343687           20         189m S         477487 258026         BRACKMILLS SITE P NORTHAMPTON TP NH262         2.5         N         176991128           21         215m NW         477300 258460         HARDINGSTONE INDUSTRIAL AREA 133         3.0         N         343677           B         216m S         477480 258000         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON 156         12.0         N         17679686           22         218m NE         477790 258500         HARDINGSTONE INDUSTRIAL AREA 139         3.0         N         343683           B         222m S         477499 257993         BRACKMILLS SITE P NORTHAMPTON TP NH261         2.5         N         17691127           23         228m SE         477690 258000         HA	13	137m N	477490 258470	HARDINGSTONE INDUSTRIAL AREA 135	5.0	Ν	343679
16         158m SW         477350 258170         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP RG         3.0         N         17679315           17         178m NW         477370 258470         HARDINGSTONE INDUSTRIAL AREA 134         3.0         N         343678           18         182m SW         477380 258080         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP R7         3.0         N         17679316           19         182m W         477290 258380         HARDINGSTONE INDUSTRIAL AREA 143         3.0         N         343687           20         189m S         477487 258026         BRACKMILLS SITE P NORTHAMPTON TP NH262         2.5         N         17691128           21         215m NW         477300 258460         HARDINGSTONE INDUSTRIAL AREA 133         3.0         N         343677           B         216m S         477480 258000         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON 156         12.0         N         17679686           B         222m S         477499 257993         BRACKMILLS SITE P NORTHAMPTON TP NH261         2.5         N         17691127           23         228m N         477690 258030         HARDINGSTONE INDUSTRIAL AREA 125         -1.0         N         343669           C         228m SE         477690 258030         BRACKMILLS	14	139m N	477590 258510	HARDINGSTONE INDUSTRIAL AREA 137	5.0	Ν	343681
NORTHAMPTON TP R6           17         178m NW         477370 258470         HARDINGSTONE INDUSTRIAL AREA 134         3.0         N         343678           18         182m SW         477380 258080         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP R7         3.0         N         17679316           19         182m W         477290 258380         HARDINGSTONE INDUSTRIAL AREA 143         3.0         N         343687           20         189m S         477487 258026         BRACKMILLS SITE P NORTHAMPTON TP NH262         2.5         N         17691128           21         215m NW         477300 258460         HARDINGSTONE INDUSTRIAL AREA 133         3.0         N         343677           B         216m S         477480 258000         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON 156         12.0         N         17679686           22         218m NE         477790 258500         HARDINGSTONE INDUSTRIAL AREA 139         3.0         N         343683           B         222m S         477690 258000         BRACKMILLS SITE P NORTHAMPTON TP NH261         2.5         N         17691127           23         228m SE         477690 258030         BRACKMILLS NORTHAMPTON TPS         3.0         N         17674117	15	154m S	477474 258063	BRACKMILLS SITE P NORTHAMPTON TP NH263	2.5	Ν	<u>17691129</u>
18       182m SW       477380 258080       BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON TP R7       3.0       N       17679316         19       182m W       477290 258380       HARDINGSTONE INDUSTRIAL AREA 143       3.0       N       343687         20       189m S       477487 258026       BRACKMILLS SITE P NORTHAMPTON TP NH262       2.5       N       17691128         21       215m NW       477300 258460       HARDINGSTONE INDUSTRIAL AREA 133       3.0       N       343677         B       216m S       477480 258000       BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON 156       12.0       N       17679686         22       218m NE       477790 258500       HARDINGSTONE INDUSTRIAL AREA 139       3.0       N       343683         B       222m S       477499 257993       BRACKMILLS SITE P NORTHAMPTON TP NH261       2.5       N       17691127         23       228m N       477630 258600       HARDINGSTONE INDUSTRIAL AREA 125       -1.0       N       343669         C       228m SE       477690 258030       BRACKMILLS NORTHAMPTON TPS       3.0       N       17674117	16	158m SW	477350 258170		3.0	Ν	<u>17679315</u>
NORTHAMPTON TP R7           19         182m W         477290 258380         HARDINGSTONE INDUSTRIAL AREA 143         3.0         N         343687           20         189m S         477487 258026         BRACKMILLS SITE P NORTHAMPTON TP NH262         2.5         N         17691128           21         215m NW         477300 258460         HARDINGSTONE INDUSTRIAL AREA 133         3.0         N         343677           B         216m S         477480 258000         BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON 156         12.0         N         17679686           22         218m NE         477790 258500         HARDINGSTONE INDUSTRIAL AREA 139         3.0         N         343683           B         222m S         477630 258600         HARDINGSTONE INDUSTRIAL AREA 125         -1.0         N         343669           C         228m SE         477690 258030         BRACKMILLS NORTHAMPTON TPS         3.0         N         17674117	17	178m NW	477370 258470	HARDINGSTONE INDUSTRIAL AREA 134	3.0	Ν	<u>343678</u>
20       189m S       477487 258026       BRACKMILLS SITE P NORTHAMPTON TP NH262       2.5       N       17691128         21       215m NW       477300 258460       HARDINGSTONE INDUSTRIAL AREA 133       3.0       N       343677         B       216m S       477480 258000       BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON 156       12.0       N       17679686         22       218m NE       477790 258500       HARDINGSTONE INDUSTRIAL AREA 139       3.0       N       343683         B       222m S       477499 257993       BRACKMILLS SITE P NORTHAMPTON TP NH261       2.5       N       17691127         23       228m N       477630 258600       HARDINGSTONE INDUSTRIAL AREA 125       -1.0       N       343669         C       228m SE       477690 258030       BRACKMILLS NORTHAMPTON TPS       3.0       N       17674117	18	182m SW	477380 258080		3.0	Ν	<u>17679316</u>
21       215m NW       477300 258460       HARDINGSTONE INDUSTRIAL AREA 133       3.0       N       343677         B       216m S       477480 258000       BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON I 56       12.0       N       17679686         22       218m NE       477790 258500       HARDINGSTONE INDUSTRIAL AREA 139       3.0       N       343683         B       222m S       477499 257993       BRACKMILLS SITE P NORTHAMPTON TP NH261       2.5       N       17691127         23       228m N       477630 258600       HARDINGSTONE INDUSTRIAL AREA 125       -1.0       N       343669         C       228m SE       477690 258030       BRACKMILLS NORTHAMPTON TPS       3.0       N       17674117	19	182m W	477290 258380	HARDINGSTONE INDUSTRIAL AREA 143	3.0	Ν	<u>343687</u>
B       216m S       477480 258000       BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON I 56       12.0       N       17679686         22       218m NE       477790 258500       HARDINGSTONE INDUSTRIAL AREA 139       3.0       N       343683         B       222m S       477499 257993       BRACKMILLS SITE P NORTHAMPTON TP NH261       2.5       N       17691127         23       228m N       477630 258600       HARDINGSTONE INDUSTRIAL AREA 125       -1.0       N       343669         C       228m SE       477690 258030       BRACKMILLS NORTHAMPTON TPS       3.0       N       17674117	20	189m S	477487 258026	BRACKMILLS SITE P NORTHAMPTON TP NH262	2.5	Ν	<u>17691128</u>
NORTHAMPTON I 56         22       218m NE       477790 258500       HARDINGSTONE INDUSTRIAL AREA 139       3.0       N       343683         B       222m S       477499 257993       BRACKMILLS SITE P NORTHAMPTON TP NH261       2.5       N       17691127         23       228m N       477630 258600       HARDINGSTONE INDUSTRIAL AREA 125       -1.0       N       343669         C       228m SE       477690 258030       BRACKMILLS NORTHAMPTON TP5       3.0       N       17674117	21	215m NW	477300 258460	HARDINGSTONE INDUSTRIAL AREA 133	3.0	Ν	<u>343677</u>
B         222m S         477499 257993         BRACKMILLS SITE P NORTHAMPTON TP NH261         2.5         N         17691127           23         228m N         477630 258600         HARDINGSTONE INDUSTRIAL AREA 125         -1.0         N         343669           C         228m SE         477690 258030         BRACKMILLS NORTHAMPTON TPS         3.0         N         17674117	В	216m S	477480 258000		12.0	Ν	<u>17679686</u>
23 228m N 477630 258600 HARDINGSTONE INDUSTRIAL AREA 125 -1.0 N 343669 C 228m SE 477690 258030 BRACKMILLS NORTHAMPTON TP5 3.0 N 17674117	22	218m NE	477790 258500	HARDINGSTONE INDUSTRIAL AREA 139	3.0	N	343683
C 228m SE 477690 258030 BRACKMILLS NORTHAMPTON TP5 3.0 N <u>17674117</u>	В	222m S	477499 257993	BRACKMILLS SITE P NORTHAMPTON TP NH261	2.5	Ν	<u>17691127</u>
	23	228m N	477630 258600	HARDINGSTONE INDUSTRIAL AREA 125	-1.0	Ν	343669
24 228m N 477590 258600 HARDINGSTONE INDUSTRIAL AREA 124 3.0 N <u>343668</u>	С	228m SE	477690 258030	BRACKMILLS NORTHAMPTON TP5	3.0	Ν	17674117
	24	228m N	477590 258600	HARDINGSTONE INDUSTRIAL AREA 124	3.0	N	343668



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

ID	Location	Grid reference	Name	Length	Confidential	Web link
25	231m NE	477690 258590	HARDINGSTONE INDUSTRIAL AREA 126	3.0	N	343670
26	243m SW	477370 258010	PINNACLE 15 SITE B GOWERTON ROAD NORTHAMPTON 5	8.9	Ν	18502825
С	243m SE	477680 258010	BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON I 57	12.0	Ν	17679687
27	247m SW	477400 257990	BRACKMILLS INDUSTRIAL ESTATE NORTHAMPTON R1	10.0	Ν	17679309
28	250m S	477508 257965	BRACKMILLS SITE P NORTHAMPTON TP NH260	2.6	N	17691125

This data is sourced from the British Geological Survey.



Date: 7 November 2022

(100)

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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

# 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 101

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

This data is sourced from the British Geological Survey.



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# Natural ground subsidence - Running sands



# 17.2 Running sands

Records within 50m 1

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

Features are displayed on the Natural ground subsidence - Running sands map on page 102

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

This data is sourced from the British Geological Survey.



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# Natural ground subsidence - Compressible deposits



# 17.3 Compressible deposits

Records within 50m 1

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on page 103

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

This data is sourced from the British Geological Survey.



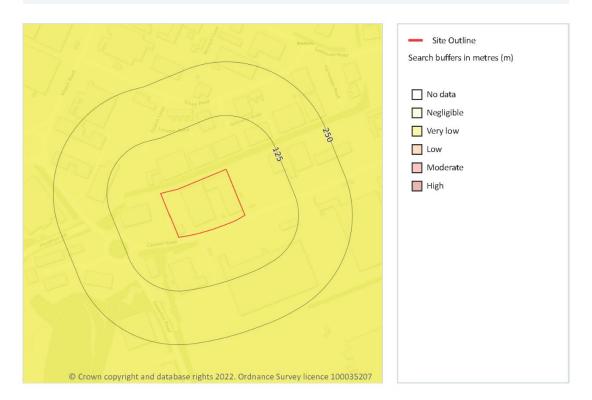
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# Natural ground subsidence - Collapsible deposits



# 17.4 Collapsible deposits

Records within 50m 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 104

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

This data is sourced from the British Geological Survey.



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# Natural ground subsidence - Landslides



### 17.5 Landslides

Records within 50m 1

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

Features are displayed on the Natural ground subsidence - Landslides map on page 105

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.



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# Natural ground subsidence - Ground dissolution of soluble rocks



### 17.6 Ground dissolution of soluble rocks

### Records within 50m 1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on page 106

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



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# **Site Condition Report**



TANK 65M FROM MISWA CHEMICALS LTD, 54 CASWELL ROAD 18M FROM UNNAMED ROAD, CASWELL ROAD, NORTHAMPTON, NN4 7PW Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

This data is sourced from the British Geological Survey.



Date: 7 November 2022

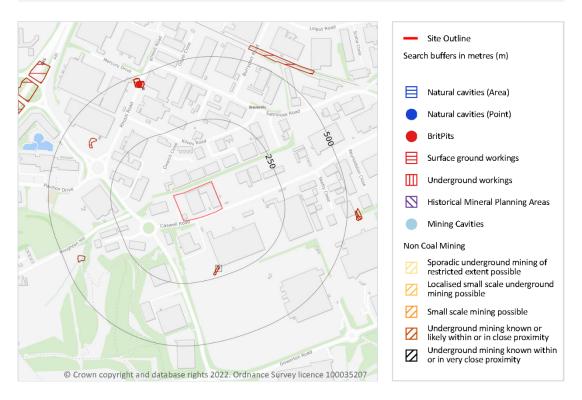


Contact us with any questions at:



**Ref**: GS-9180909 **Your ref**: MISWA **Grid ref**: 477549 258266

# 18 Mining, ground workings and natural cavities



### 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.



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Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

### 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 108

ID	Location	Details	Description
В	466m NW	Name: Hardingstone Lodge Gravel Pit Address: Hardingstone, NORTHAMPTON, Northamptonshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

### 18.3 Surface ground workings

Records within 250m	3
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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 108

ID	Location	Land Use	Year of mapping	Mapping scale
Α	206m S	Ponds	1938	1:10560
А	206m S	Ponds	1899	1:10560
Α	206m S	Ponds	1884	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

### 18.4 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey/Groundsure.



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### 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.



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### 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).



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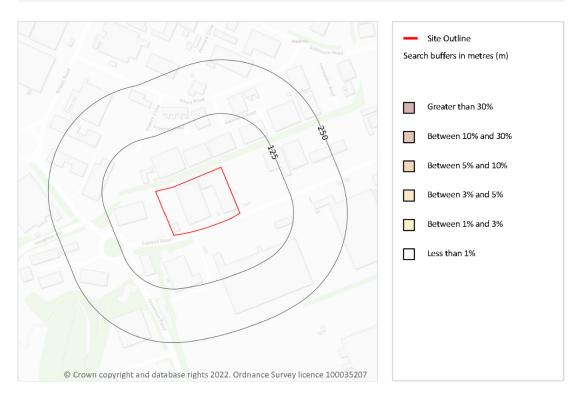


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# 19 Radon



### 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 112

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

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



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# 20 Soil chemistry

# 20.1 BGS Estimated Background Soil Chemistry

Records within 50m 2

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	1 mg/kg	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	1 mg/kg	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 12

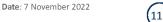
Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across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

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg )	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromiu m (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/k g)
On site	21	1.1	88	60	0.3	101	46	29	6
On site	21	1.1	254	174	0.9	101	96	29	18
On site	21	1.1	260	179	0.6	101	75	29	10
On site	21	1.1	268	184	0.5	101	74	29	10
On site	22	1.1	181	124	0.6	105	95	30	13
On site	22	1.1	142	98	0.6	105	85	30	12



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Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg )	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromiu m (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/k g)
14m SW	21	1.1	89	61	0.3	101	46	29	6
15m SW	22	1.1	204	140	0.6	105	97	30	12
27m NE	21	1.1	267	183	0.5	101	76	29	10
30m N	21	1.1	262	180	0.9	101	97	29	19
37m SE	21	1.1	248	170	0.6	101	74	29	10
44m E	21	1.1	102	70	0.3	101	45	29	6

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 km².

This data is sourced from the British Geological Survey.



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# 21 Railway infrastructure and projects

### 21.1 Underground railways (London)

Records within 250m

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

0

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

This data is sourced from Ordnance Survey/Groundsure.

### 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.



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This data is sourced from Groundsure/the Postal Museum.

#### 21.6 Historical railways

Records within 250m

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

This data is sourced from OpenStreetMap.

### 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.



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TANK 65M FROM MISWA CHEMICALS LTD, 54 CASWELL ROAD 18M FROM UNNAMED ROAD, CASWELL ROAD, NORTHAMPTON, NN4 7PW Ref: GS-9180909 Your ref: MISWA Grid ref: 477549 258266

## **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 <a href="https://www.groundsure.com/sources-reference">https://www.groundsure.com/sources-reference</a>.

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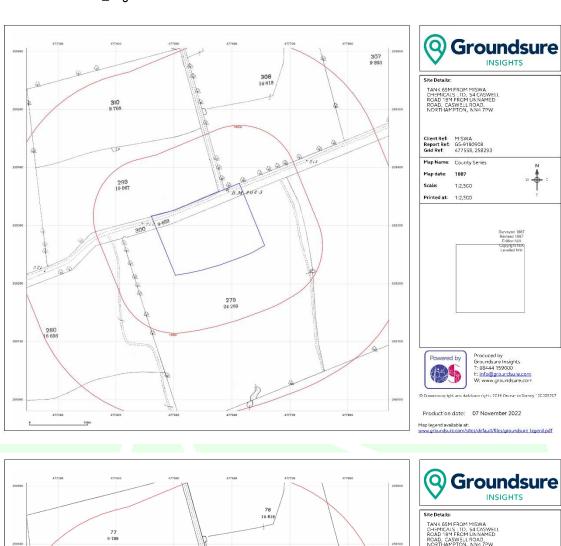
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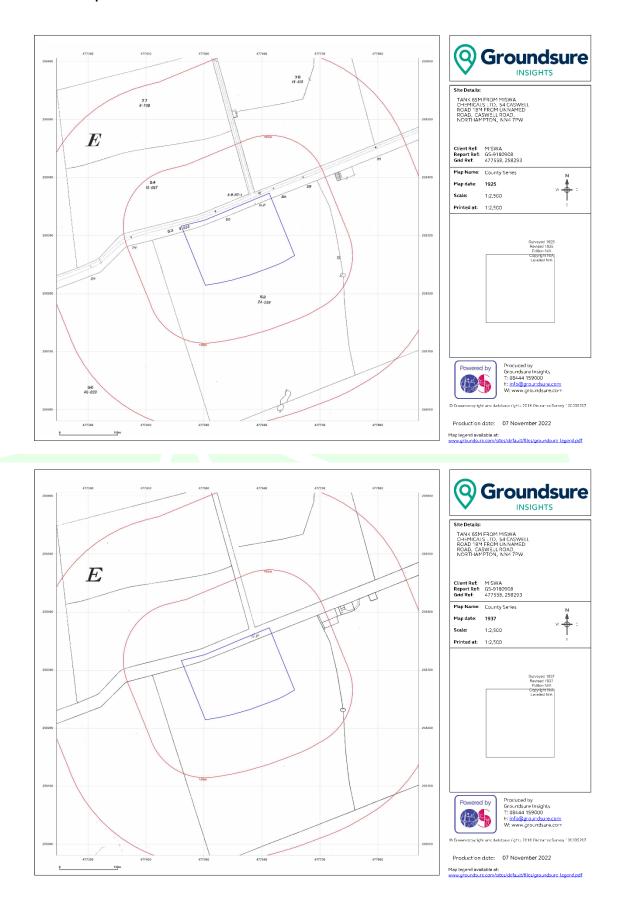
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## Appendix 2 GS-9180908\_largeScale

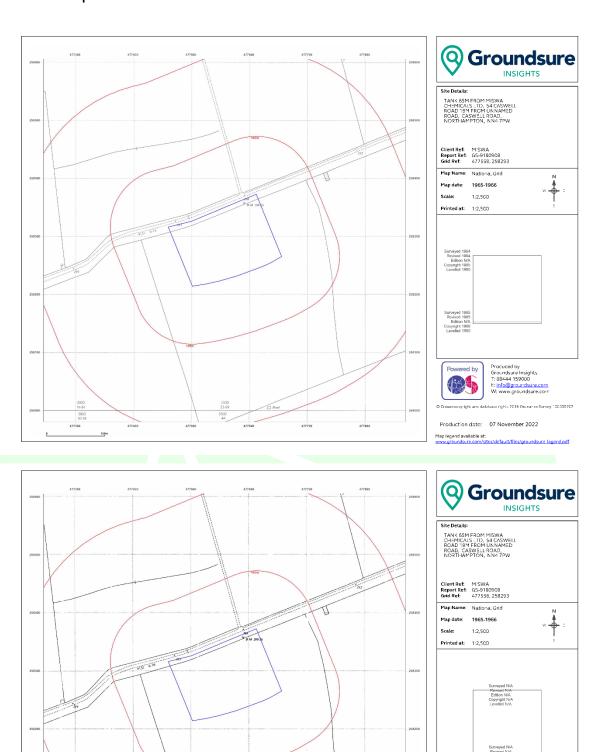






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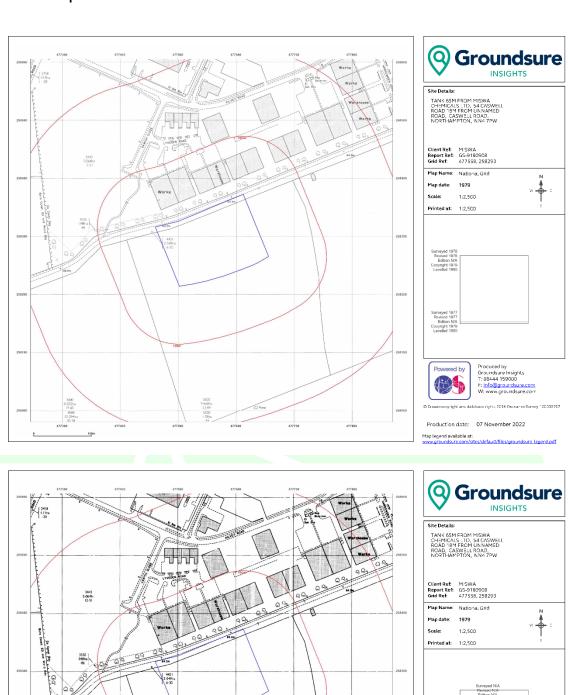
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www.aroundsurc.com/sites/default/files/groundsurc.legend.pdf

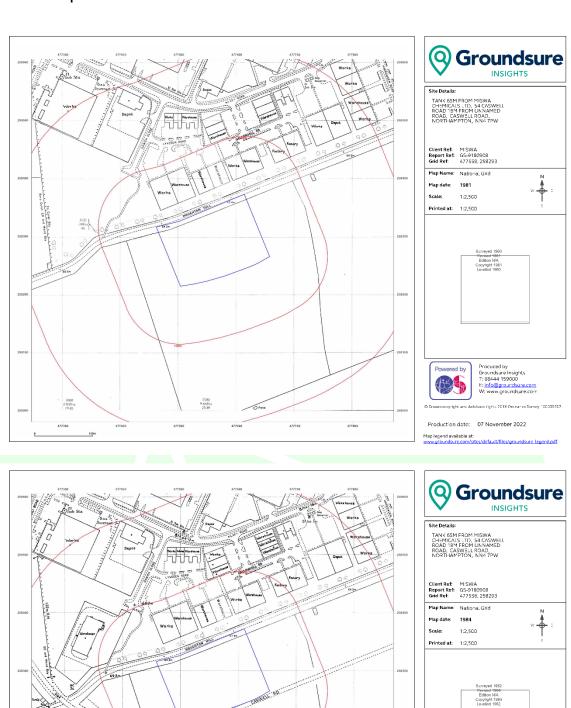


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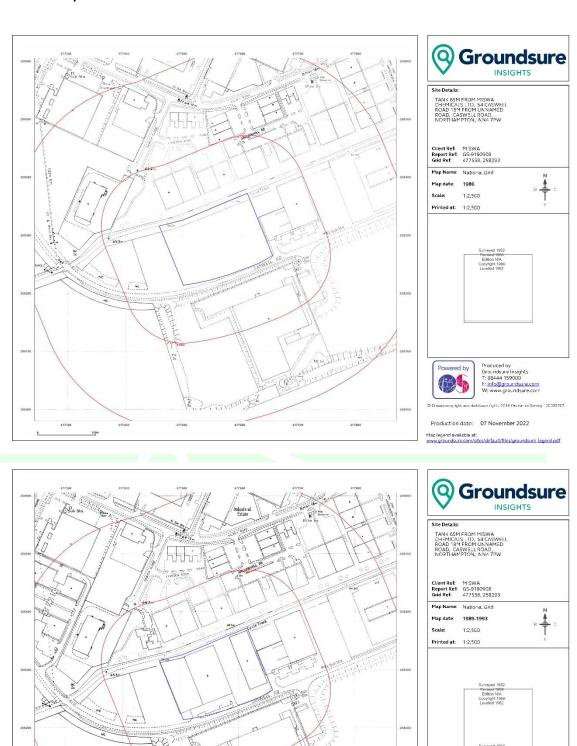
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Production date: 07 November 2022

Map legend available at:

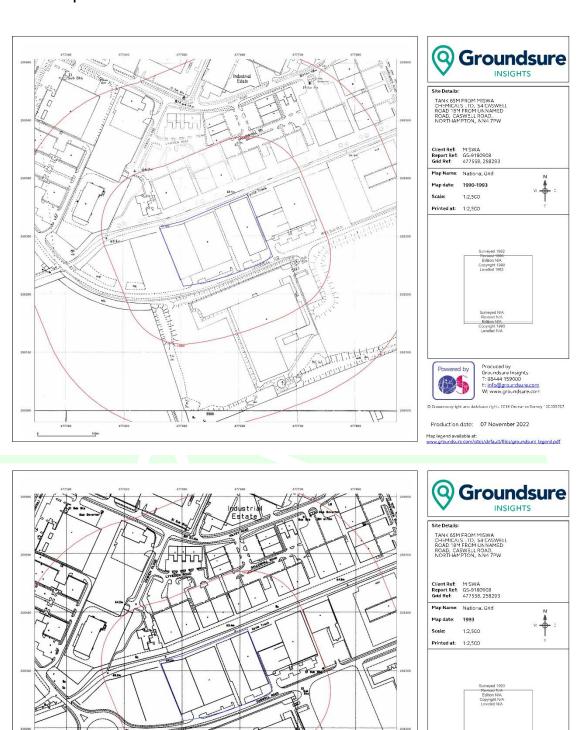
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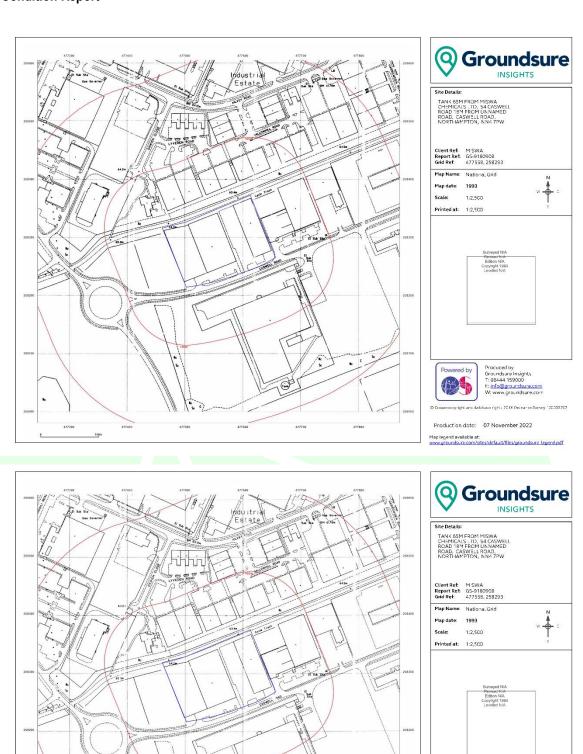


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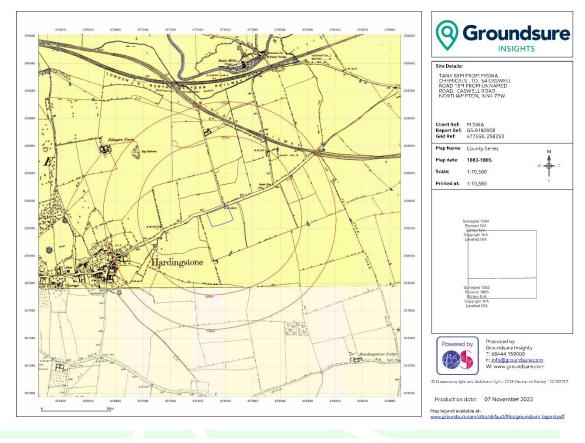
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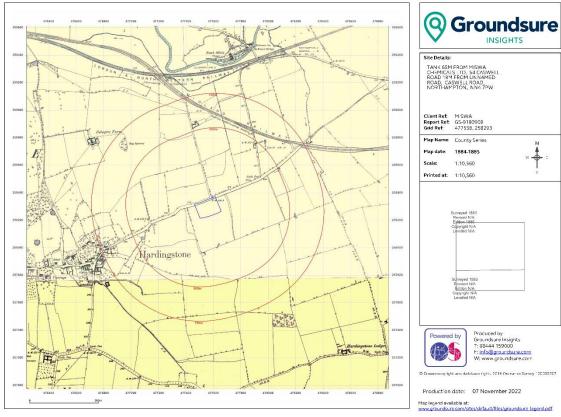


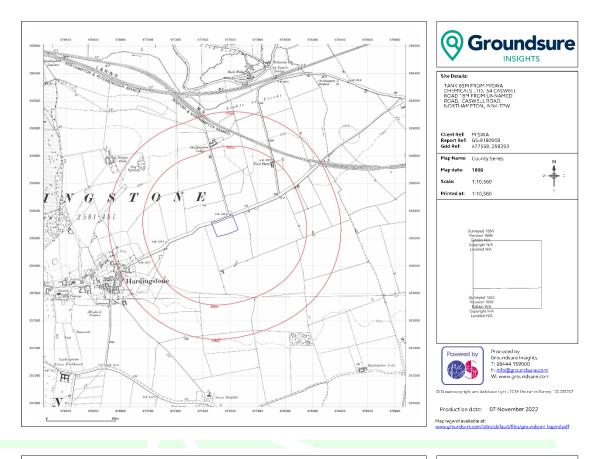


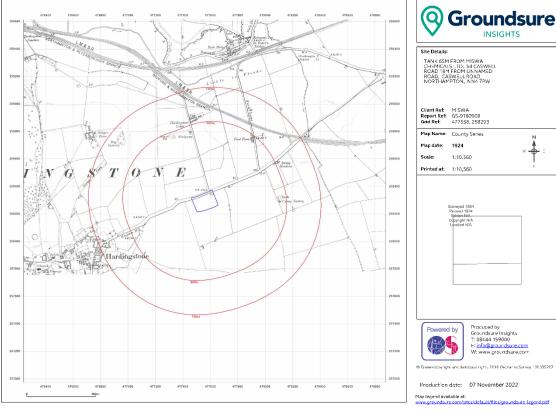


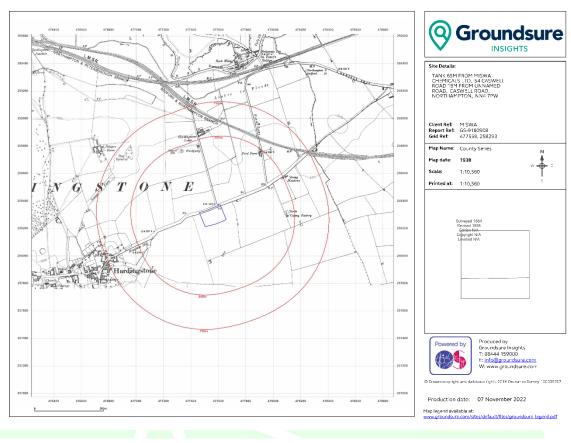
## Appendix 3 GS-9180908\_smallScale

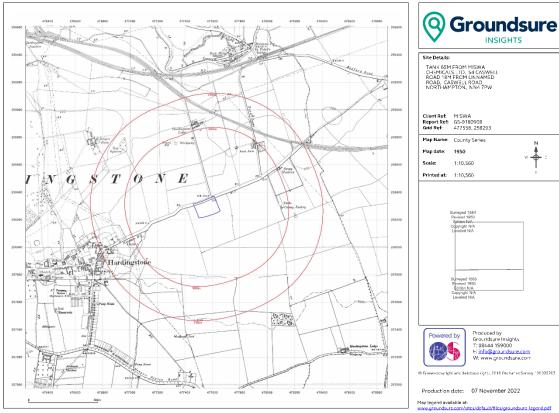


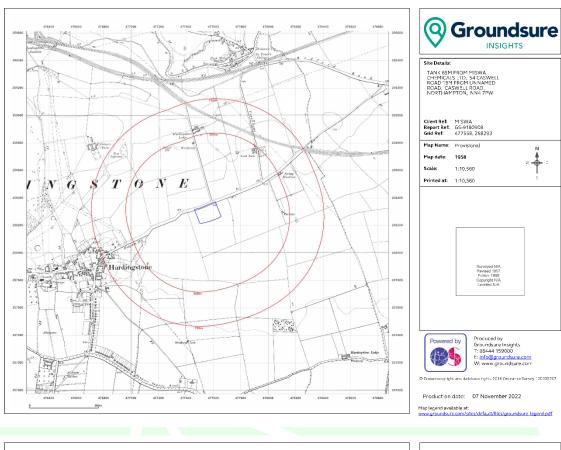


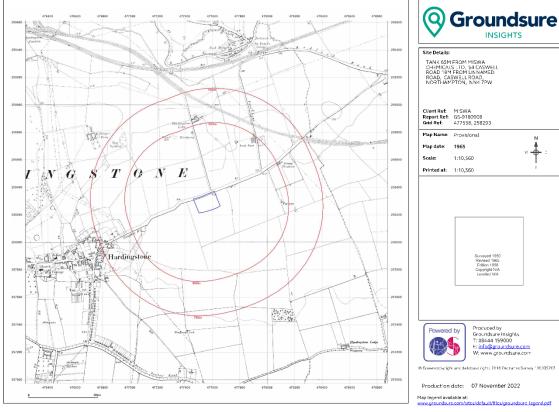


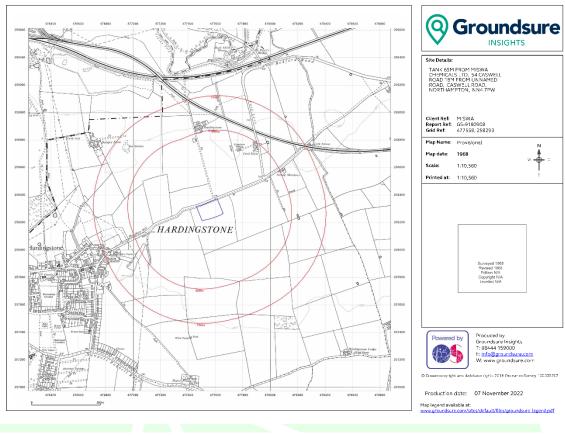


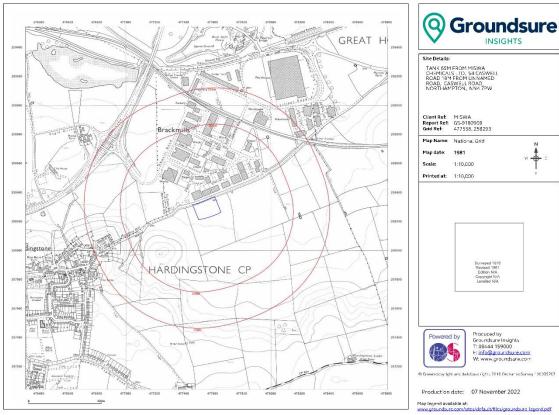


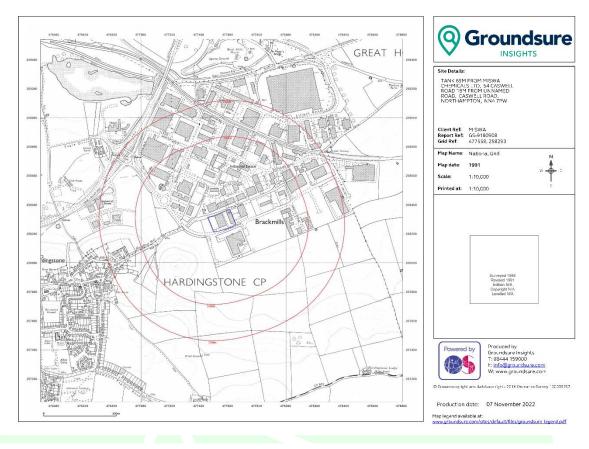


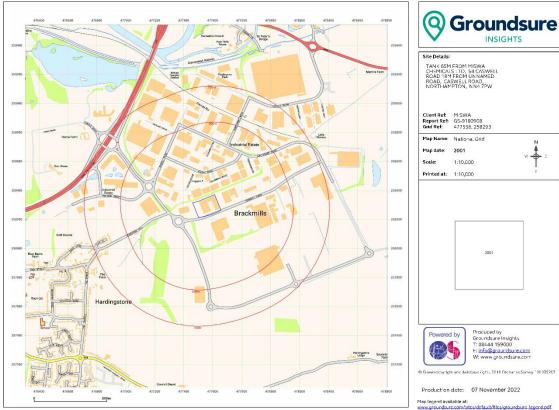




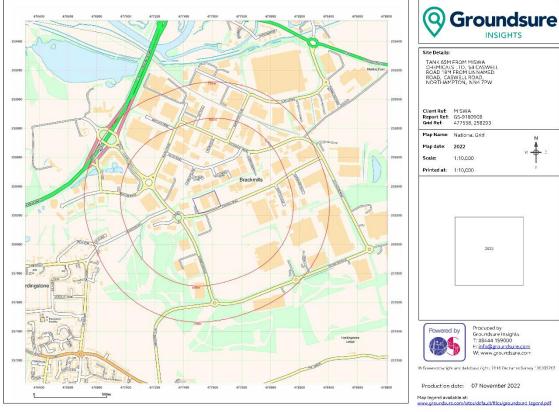














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