



Determinant	Target concentrations (mg/l)			
	Minimum Reporting Value	UK Drinking Water Standard or Best Equivalent	Environmental Quality Standard or Best Equivalent	
			Freshwater	Transitional (estuaries) and Coastal Waters
Nickel	-	0.02 ⁽²⁾	0.02 ^(13c)	0.02 ^(13c)
Selenium	-	0.01 ⁽²⁾	-	-
Zinc	-	5 ⁽³⁾	0.008, 0.05, 0.075, 0.125 ^(13e)	0.04 ^(13a)
Chlorinated solvents				
Trichloroethene	0.0001 ⁽⁴⁾	0.01 ⁽²⁾	0.01 ^(13c)	0.01 ^(13c)
Tetrachloroethene	0.0001 ⁽⁴⁾	0.01 ⁽²⁾	0.01 ^(13c)	0.01 ^(13c)
1,1,1-Trichloroethane	0.0001 ⁽⁴⁾	-	0.1 ^(13c)	0.1 ^(13c)
1,1,2-Trichloroethane	0.0001 ⁽⁴⁾	-	0.4 ^(13c)	0.3 ^(13c)
Carbon tetrachloride (Tetrachloromethane)	0.0001 ⁽⁴⁾	0.003 ⁽²⁾	0.012 ^(13c)	0.012 ^(13c)
1,2-Dichloroethane	0.001 ⁽⁴⁾	0.003 ⁽²⁾	0.01 ^(13c)	0.01 ^(13c)
Vinyl chloride (Chloroethene)	-	0.0005 ⁽²⁾	-	-
Trihalomethanes	-	0.1 ^(2, 5)	-	-
Chloroform (Trichloromethane) (one of the trihalomethanes included above)	0.0001 ⁽⁴⁾	0.1 ^(2, 5)	0.0025 ^(13c)	0.0025 ^(13c)
Polycyclic aromatic hydrocarbons				
Acenaphthene	-	-	0.0058 ⁽¹⁰⁾	
Acenaphthylene	-	-	0.0058 ⁽¹⁰⁾	
Anthracene	-	-	0.0001 ^(13c)	0.0001 ^(13c)



Determinant	Target concentrations (mg/l)			
	Minimum Reporting Value	UK Drinking Water Standard or Best Equivalent	Environmental Quality Standard or Best Equivalent	
			Freshwater	Transitional (estuaries) and Coastal Waters
Benzo(a)anthracene	-	-	0.000018 ⁽¹⁰⁾	
Benzo(b)fluoranthene	-	0.0001 ⁽²⁾	0.00003 ^(13f)	0.00003 ^(13f)
Benzo(k)fluoranthene	-			
Benzo(g,h,i)perylene	-		0.000002 ^(13g)	0.000002 ^(13g)
Indeno(1,2,3-cd)pyrene	-			
Chrysene	-	-	0.00001 ⁽¹⁰⁾	
Dibenzo(a,h)anthracene	-	-	0.00001 ⁽¹⁰⁾	
Fluoranthene	-	-	0.0001 ^(13c)	0.0001 ^(13c)
Fluorene	-	-	0.0021 ⁽¹⁰⁾	
Phenanthrene	-	-	0.003 ⁽¹⁰⁾	
Pyrene	-	-	0.00004 ⁽¹⁰⁾	
Benzo(a)pyrene	-	0.00001 ⁽²⁾	0.00005 ^(13c)	0.00005 ^(13c)
Naphthalene	-	-	0.0024 ^(13c)	0.0012 ^(13c)
Petroleum hydrocarbons				
Total petroleum hydrocarbons	-	0.01 ⁽³⁾	0.01 ^(3, 11)	
Benzene	0.001 ⁽⁴⁾	0.001 ⁽²⁾	0.01 ^(13c)	0.008 ^(13c)
Toluene	0.004 ⁽⁴⁾	0.7 ⁽⁹⁾	0.05 ^(13a)	0.04 ^(13a)
Ethylbenzene	-	0.3 ⁽⁹⁾	0.02 ⁽¹²⁾	0.02 ⁽¹²⁾
Xylene	0.003 ⁽⁴⁾	0.5 ⁽⁹⁾	0.03 ^(13c)	0.03 ^(13c)



Determinant	Target concentrations (mg/l)			
	Minimum Reporting Value	UK Drinking Water Standard or Best Equivalent	Environmental Quality Standard or Best Equivalent	
			Freshwater	Transitional (estuaries) and Coastal Waters
<i>Methyl tertiary butyl ether</i>	-	0.015 ⁽⁷⁾		
Pesticides and herbicides				
Aldrin	0.000003 ⁽⁴⁾	0.00003 ⁽²⁾	0.00001 ^(13d)	0.000005 ^(13d)
Dieldrin	0.003 ⁽⁴⁾	0.00003 ⁽²⁾		
Endrin	0.000003 ⁽⁴⁾	0.0006 ⁽⁹⁾		
Isodrin	0.000003 ⁽⁴⁾	-		
Heptachlor	-	0.00003 ⁽²⁾		
Heptachlor epoxide	-	0.00003 ⁽²⁾		
Other pesticides	-	0.0001 ⁽²⁾		
Total pesticides	-	0.0005 ⁽²⁾		
Total DDT	0.000004 ⁽⁴⁾	0.001 ⁽⁹⁾	0.000025 ^(13c)	0.000025 ^(13c)
Azinphos – methyl	0.000001 ⁽⁴⁾	-	0.00001 ⁽¹⁾	
Cyfluthrin	0.0001 ⁽⁴⁾	-	0.000001 ⁽¹⁴⁾	
Demeton	0.00005 ⁽⁴⁾	-	0.0005 ⁽¹⁴⁾	
Dichlorvos	-	-	0.000001 ^(13c)	0.00004 ^(13c)
Dimethoate	0.00001 ⁽⁴⁾	-	0.00048 ^(13a)	0.00048 ^(13a)
Endosulphan	0.000005 ⁽⁴⁾	-	0.000005 ^(13c)	0.0000005 ^(13c)
Fenitrothion	0.000001 ⁽⁴⁾	-	0.00001 ^(13c)	0.00001 ^(13c)
Flucifuron	0.0001 ⁽⁴⁾	-	0.001 ⁽¹⁴⁾	



Determinant	Target concentrations (mg/l)			
	Minimum Reporting Value	UK Drinking Water Standard or Best Equivalent	Environmental Quality Standard or Best Equivalent	
			Freshwater	Transitional (estuaries) and Coastal Waters
Malathion	0.000001 ⁽⁴⁾	-	0.00001 ^(13c)	0.00002 ^(13c)
Mevinphos	0.000005 ⁽⁴⁾	-	0.00002 ⁽¹⁴⁾	-
Omethoate	0.0001 ⁽⁴⁾	-	0.00001 ⁽¹⁴⁾	
PCSDs (cyfluthrin, sulcofuron, flucofuron and permethrin)	-	-	0.00005 ⁽¹⁵⁾	
Permethrin	0.000001 ⁽⁴⁾	-	0.00001 ^(13a)	0.00001 ⁽¹³⁾
Sulcofuron	0.0001 ⁽⁴⁾	-	0.025 ^(8,14)	
Triazaphos	0.0001 ⁽⁴⁾	-	0.000005 ⁽⁸⁾	
Atrazine	0.00003 ⁽⁴⁾	-	0.0006 ^(13c)	0.0006 ^(13c)
Simazine	0.00003 ⁽⁴⁾	-	0.001 ^(13c)	0.001 ^(13c)
<i>Bentazone</i>	0.1 ⁽⁴⁾	-	0.5 ^(13c)	0.5 ^(13a)
Linuron	0.0001 ⁽⁴⁾	-	0.0005 ^(13a)	0.0005 ^(13a)
Mecoprop	0.00004 ⁽⁴⁾	-	0.018 ^(13a)	0.018 ^(13a)
Trifluralin	0.00001 ⁽⁴⁾	-	0.00003 ^(13c)	0.00003 ^(13c)
Miscellaneous				
Cyanide (Hydrogen cyanide)	-	0.05 ⁽²⁾	0.001 ^(13a)	0.001 ^(13a)
Phenol	0.0005 ⁽⁴⁾	-	0.0077 ^(13a)	0.0077 ^(13a)
Sodium	-	200 ⁽²⁾	-	
Chloride	-	250 ⁽²⁾	250 ^(6,14)	-

Determinant	Target concentrations (mg/l)			
	Minimum Reporting Value	UK Drinking Water Standard or Best Equivalent	Environmental Quality Standard or Best Equivalent	
			Freshwater	Transitional (estuaries) and Coastal Waters
Ammonium (as NH ₄ ⁺)	-	0.5 ⁽²⁾	0.3 ^(13a)	
<i>Ammonia (NH₃)</i>	-	-	0.025 ⁽¹⁵⁾	0.021 ^(13a)
Sulphate	-	250 ⁽²⁾	400 ^(6,14)	-
Iron	-	0.20 ⁽²⁾	1 ^(13a)	1 ^(13a)
Manganese	-	0.05 ⁽²⁾	0.03 ^(6,14)	No EQS required ⁽¹²⁾
<i>Aluminium</i>	-	0.2 ⁽²⁾	-	
Nitrate (as NO ₃)	-	50 ⁽²⁾	-	
Nitrite (as NO ₂)	-	0.1 ⁽²⁾	0.01 ⁽¹⁵⁾	-

Analytes in bold are hazardous, analytes in italics are non hazardous, analytes in plain text are unclassified;
according to JAGDAG Determination List June 2010

Notes:

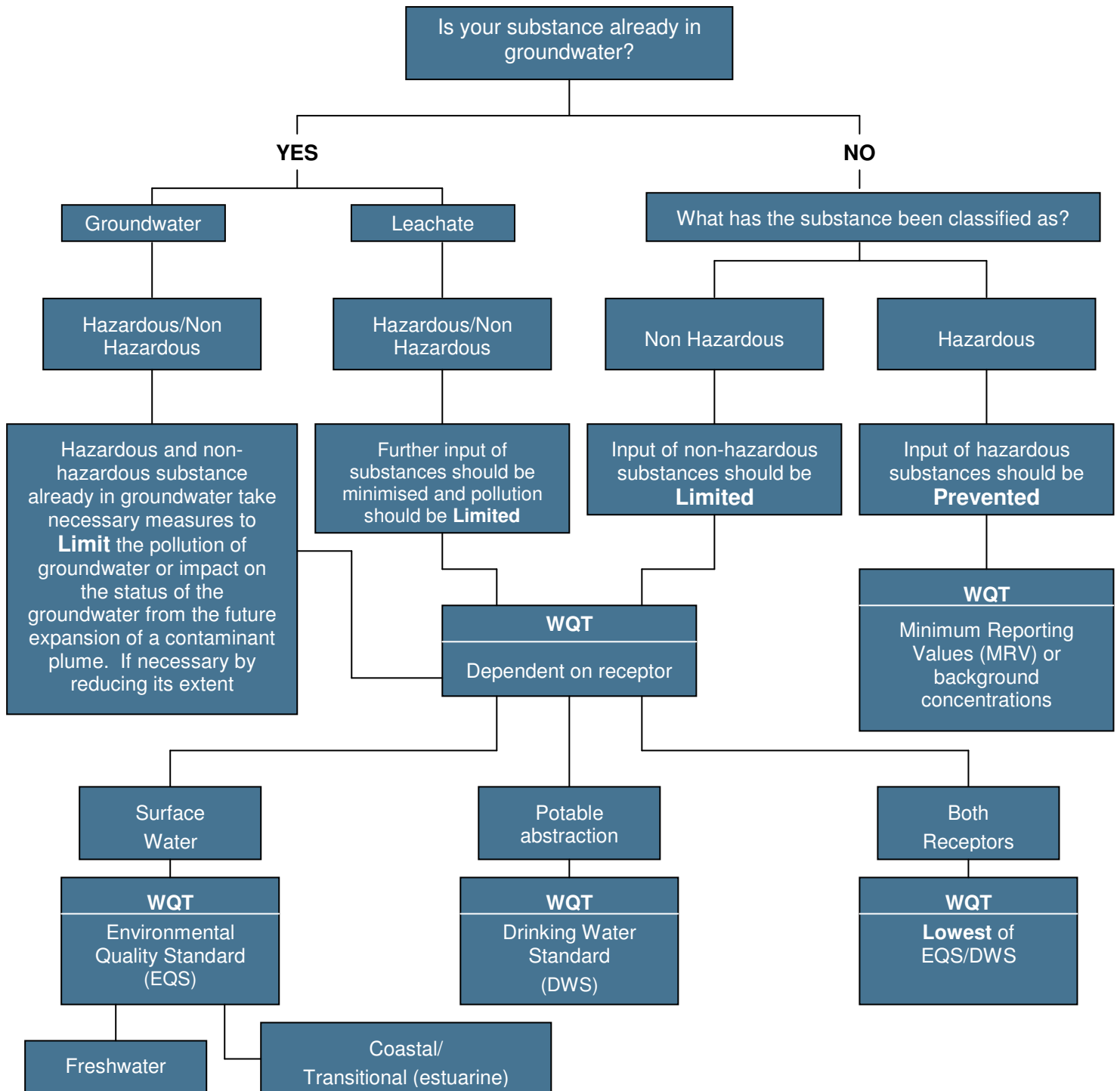
1. Environment Agency. Groundwater Protection: Principles and Policy (GP3). Part 1 – 4. Part 4 and 5 under consultation.
2. Statutory Instrument 2000 No. 3184. The Water Supply (Water Quality) Regulations 2000, as amended by SI 2001/2885, SI 2002/2469, SI 2005/2035, SI 2007/2734 and SI 2010/991 (applying from April 20 2010)
3. Statutory Instrument 1989 No. 1147. The Water Supply (Water Quality) Regulations 1989, as amended.
4. Minimum reporting values listed in Annex (j) of Horizontal Guidance Note H1 (H1 Environmental Risk Assessment Framework, Environment Agency, April 2010 v2.0). Note target concentration for xylenes is 0.003mg/l each for o-xylene and m/p xylene.
5. Statutory Instrument 2000 No. 3184. The Water Supply (Water Quality) Regulations 2000 – sum of chloroform, bromoform, dibromochloromethane and bromodichloromethane.
6. Proposed list of EQS for implementation of the Dangerous Substances Directive (76/464.EEC).
7. Environment Agency MTBE guidance, 2006.
8. Freshwater Environmental Quality Standards: The Water Framework Directive 200/60/EC.
9. WHO (2004) guidelines for drinking-water quality.
10. WRc plc (2002), R&D Technical Report P45. Where predicted no-effect concentration is below the laboratory method detection limit (LMDL) for chrysene, dibenzo(a,h)anthracene and fluoranthene, the target concentration has been set at the LMDL of 0.00001mg/l.
11. Please note this is a very conservative value. If necessary please refer to EA, 2009. *Petroleum hydrocarbons in Groundwater Supplementary Guidance for Hydrogeological Risk Assessment*, which provides advice on risk rankings of TPH CWG fractions. It may be possible to eliminate low risk fractions and/or those not detected above LMDL from concern.
12. Environment Agency Chemical Standards Database (May 2011). <http://evidence.environment-agency.gov.uk/ChemicalStandards/home.aspx>
13. The River Basin Districts Typology, Standards and Groundwater Threshold Values (Water Framework Directive) (England and Wales) Directions 2010.
 - 13a. Annual mean concentration (mg/l) for 'Good' standard.
 - 13b. Applies to hardness ranges of <40mg/l CaCO₃, 40–<50mg/l CaCO₃, 50–<100mg/l CaCO₃, 100–<200mg/l CaCO₃ and ≥200mg/l CaCO₃. The target concentrations included in Table 1 are listed in order of increasing calcium carbonate concentrations.
 - 13c. Annual Average EQS (surface waters).
 - 13d. Sum of aldrin, dieldrin, endrin and isodrin.
 - 13e. Applies to hardness ranges of 0–50mg/l CaCO₃, 50–100mg/l CaCO₃, 100–250mg/l CaCO₃ and >250mg/l CaCO₃. The target concentrations included in Table 1 are listed in order of increasing calcium carbonate concentrations; applies to annual mean concentration (mg/l) of CaCO₃. Applies to annual mean concentration of metal (mg/l) for 'Good' standard.



- 13f. Sum of benzo(b)fluoranthene and benzo(k)fluoranthene.
- 13g. Sum of benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene.
- 14. Council Directive on Pollution Caused by Certain Dangerous Substances Discharged into the Aquatic Environment of the Community (Dangerous Substances Directive) - List II Substances. Council Directive 76/464/EEC and Surface Waters (Dangerous Substances) (Classification) Regulations 1998
- 15. Council Directive on the Quality of Fresh Waters Needing Protection or Improvement in Order to Support Fish Life (Freshwater Fish Directive). Surface Waters (Fishlife) (Classification) Regulations 1997.

Note: '–' A target concentration is not available.

FLOW CHART TO ASSIST WITH SELECTION OF TARGET CONCENTRATIONS



WQT = Water Quality Target

When leachate is being assessed the 'compliance point' is the groundwater body. Therefore dilution within the groundwater body may be applied with caution before comparing with the WQT.

When directly assessing a receptor, e.g., a river, the appropriate WQT should be selected.

APPENDIX E

- (i) Environmental Data Sheets
- (ii) Historical Mapping

Aerial Photograph of Study Site



Aerial photography supplied by Getmapping PLC.
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Site Name: Grovefield Way, CHELTENHAM, GL51 6RF
Grid Reference: 390648,221452

Overview of Findings

For further details on each dataset, please refer to each individual section in the main Report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Report Section	Number of records found within (X) m of the study site boundary					
	on-site	0-50	51-250	251-500	501-1000	1000-1500
1. Authorisations, Incidents and Registers						
1.1 Industrial Sites Holding Licenses and/or Authorisations						
Records of IPC Authorisations	0	0	0	0	0	-
Records of IPPC Authorisations	0	0	0	0	0	-
Records of Water Industry Referrals (potentially harmful discharges to the public sewer)	0	0	0	0	-	-
Records of Red List Discharge Consents (potentially harmful discharges to controlled waters)	0	0	0	0	-	-
Records of List 1 Dangerous Substances Inventory sites	0	0	0	0	-	-
Records of List 2 Dangerous Substances Inventory sites	0	0	0	5	-	-
Records of LAPPC (LAPC) Authorisations	0	0	0	0	-	-
Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0	-	-
Records of Licensed Discharge Consents	0	0	0	3	-	-
1.2 Records of COMAH and NIHHS sites	0	0	0	0	-	-
1.3 Environment Agency Recorded Pollution Incidents						
National Incidents Recording System, List 2	0	0	0	-	-	-
National Incidents Recording System, List 1	0	0	0	-	-	-
1.4 Sites Determined as Contaminated Land under Part IIA EPA 1990	0	0	0	0	-	-
2. Landfill and Other Waste Sites						
2.1 Landfill Sites						
Environment Agency Registered landfill Sites	0	0	0	0	0	0
Landfill Data – Operational Landfill Sites	0	0	0	0	0	0
Environment Agency Historic Landfill Sites	0	1	0	0	0	1
Landfill Data – Non-Operational Landfill Sites	0	0	1	0	0	1
BGS/DoE Landfill Site Survey	0	0	0	0	0	0
GroundSure Local Authority Landfill Sites Data	0	0	0	0	0	0
2.2 Landfill and Other Waste Sites Findings						
Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	1	-	-
Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	1	-	-
Environment Agency (REGIS) Waste Sites	0	0	1	2	3	0
3. Current Land Uses						
3.1 Current Industrial Sites Data						
3.2 Records of Petrol and Fuel Sites	0	0	0	0	-	-
3.3 Underground High Pressure Oil and Gas Pipelines	0	0	0	0	-	-

4. Geology	Description
4.1 Are there any records of Artificial Ground and Made Ground present beneath the study site? *	None
4.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	None
4.3 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section. Source: Scale: 1:50,000 BGS Sheet 216	

* This includes an automatically generated 50m buffer zone around the site.

5. Hydrogeology and Hydrology	on-site	0-50	51-250	251-500	501-1000	1001-2000*
5.1 Environment Agency Groundwater Vulnerability and Soil Classification						
Minor Aquifer (within 200m)	No	No	No	-	-	-
Major Aquifer (within 200m)	No	No	No	-	-	-
Soil Classification (within 200m)	No	No	No	-	-	-
5.2 Groundwater Abstraction Licences (within 2000m of the study site).	0	0	0	0	0	0
5.3 Surface Water Abstraction Licences (within 1000m of the study site).	0	0	0	0	1	-
5.4 Source Protection Zones						
Source Protection Zones within 500m of the study site.	0	0	0	0	-	-
5.5 Potable Water Abstraction Licences (within 2000m of the study site).	0	0	0	0	0	0
5.6 River Quality						
Is there any Environment Agency information on river quality within 500m of the study site?	No	No	No	No	-	-
5.7 Main Rivers						
Main Rivers within 500m of the study site.	0	0	0	0	-	-

6. Flooding	Description
6.1 Are there any Environment Agency indicative Zone 2 floodplains within 250m of the study site?	No
6.2 Are there any Environment Agency indicative Zone 3 floodplains within 250m of the study site?	No
6.3 Are there any Areas benefiting from Flood Defences within 250m of the study site?	No
6.4 Are there any Areas used for Flood Storage within 250m of the study site?	No
6.5 What is the maximum BGS groundwater flooding susceptibility within 50m of the study site?	Not Applicable
6.6 What is the BGS confidence rating for the groundwater flooding susceptibility areas?	Not Applicable

7. Ecological Designated Sites	on-site	0-50	51-250	251-500	501-1000	1001-1500
7.1 Records of Sites of Special Scientific Interest (SSSI):	0	0	0	0	1	-
7.2 Records of National Nature Reserves (NNR) :	0	0	0	0	0	-
7.3 Records of Local Nature Reserves (LNR):	0	0	0	0	0	-
7.4 Records of Special Areas of Conservation (SAC):	0	0	0	0	0	-
7.5 Records of Special Protection Areas (SPA):	0	0	0	0	0	-
7.6 Records of Ramsar sites:	0	0	0	0	0	-
7.7 Records of World Heritage Sites:	0	0	0	0	0	-

8. Natural Hazards

8.1 What is the maximum risk of natural ground subsidence? Low

9. Mining

9.1 Are there any coal mining areas within 75m of the study site? No

9.2 What is the risk of subsidence relating to shallow mining within 150m of the study site? Negligible

Using this Report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between GroundSure and the Client. The document contains the following sections:

1. Authorisations, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by the Environment Agency, and sites determined as Contaminated Land. This search is conducted using radii up to 1000m.

2. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

3. Current Land Uses

Provides information on artificial and superficial deposits and bedrock beneath the study site. These searches are conducted onsite and includes a 50m buffer zone.

4. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

5. Hydrogeology and Hydrology

Provides information on groundwater vulnerability, soil leaching potential, abstraction licenses, Source Protection Zones (SPZ) and river quality. These searches are conducted using radii of up to 2000m.

6. Flooding

Provides information on surface water flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

7. Ecological Designated Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR) and World Heritage Sites. These searches are conducted using radii of up to 1000m.

8. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These searches are conducted using radii of up to 75m.

9. Mining

Provides information on areas of coal and shallow mining. These searches are conducted using radii of up to 150m.

10. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, GroundSure provide a free Technical Helpline (01273 819700) for further information and guidance.

Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

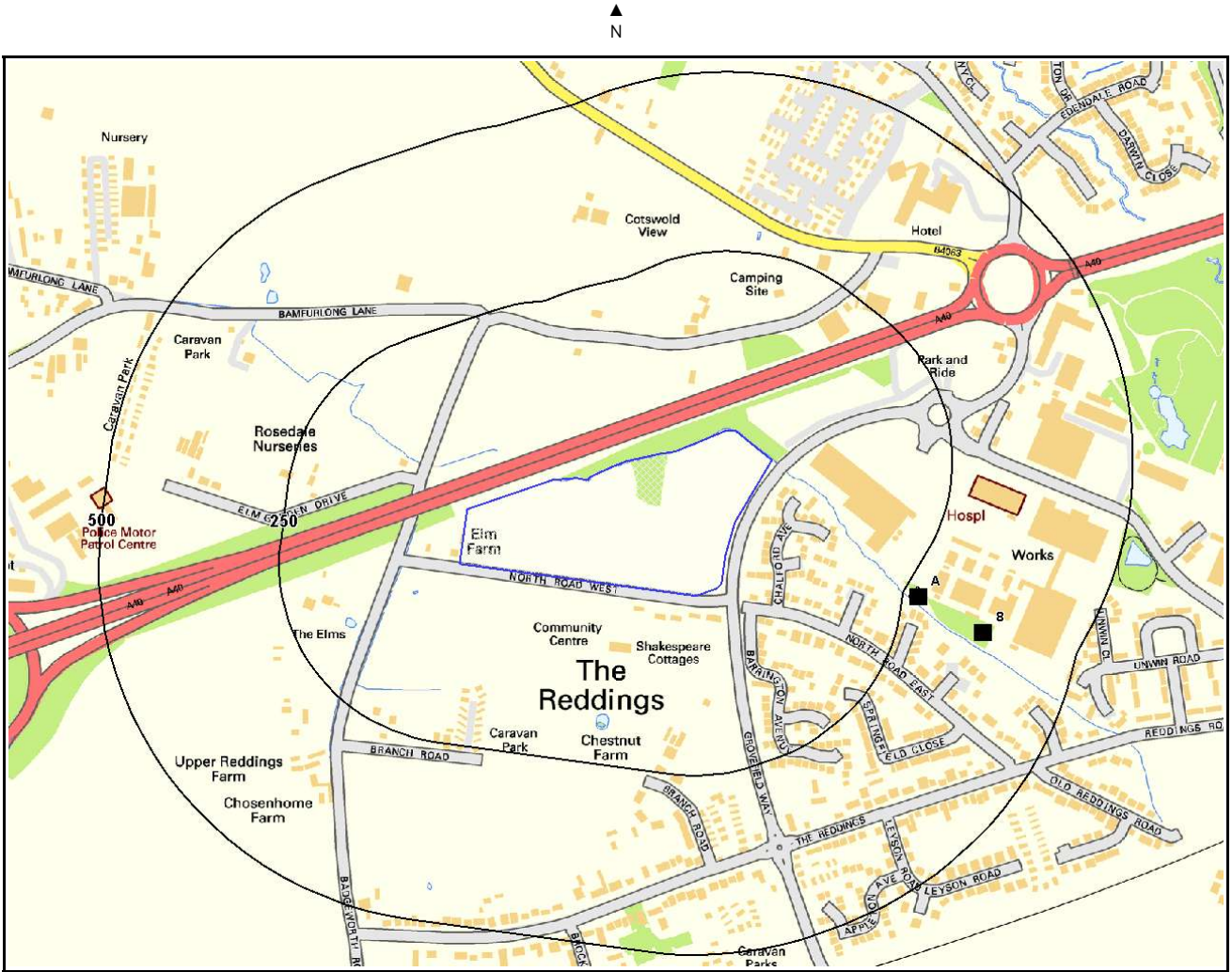
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Authorisations, Incidents and Registers Map

 NW
 ◀W

NE

















SW

 S
 ▼

SE

Incidents and Registers Legend

- | | | | | | |
|---|------------------------|---|-------------------------------|--|---------------------------------------|
|  | Site Outline |  | Recorded Pollution Incident |  | RAS 3 & 4 Authorisations |
|  | 250 Search Buffers (m) |  | Dangerous Substances (List 1) |  | IPPC & IPC Authorisations |
|  | 500 Search Buffers (m) |  | Dangerous Substances (List 2) |  | LAPPC Authorisations |
| | |  | Water Industry Referrals |  | COMAH / NIHHS Sites |
| | |  | Licensed Discharge Consents |  | Sites Determined as Contaminated Land |
| | |  | Red List Discharge Consents | | |

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1. Authorisations, Incidents and Registers

1.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency and Local Authorities reveal the following information:

Records of Part A Licences (IPC Processes) within 1000m of the study site: 0

Database searched and no data found.

Records of Part A Licences (IPPC Processes) within 1000m of the study site: 0

Database searched and no data found.

Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site: 0

Database searched and no data found.

Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site: 0

Database searched and no data found.

Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site: 0

Database searched and no data found.

Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site: 5

The following List 2 Dangerous Substance Inventory Site records are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance	Direction	NGR	Details
1A	270.0	SE	391050,221350	Name: Lucas Aerospace, Arle Court, Cheltenham Sample Site Name: No Site Sample Site Number: No site Receiving Water: - Discharge Type: -
2A	270.0	SE	391050,221350	Name: Lucas Aerospace, Arle Court, Cheltenham Sample Site Name: No Site Sample Site Number: No site Receiving Water: - Discharge Type: Trd
3A	270.0	SE	391050,221350	Name: Lucas Aerospace, Arle Court, Cheltenham Sample Site Name: No Site Sample Site Number: No site Receiving Water: - Discharge Type: -
4A	270.0	SE	391050,221350	Name: Lucas Aerospace, Arle Court, Cheltenham Sample Site Name: No Site Sample Site Number: No site Receiving Water: - Discharge Type: 04311905
5A	270.0	SE	391050,221350	Name: Lucas Aerospace, Arle Court, Cheltenham Sample Site Name: No Site Sample Site Number: No site Receiving Water: - Discharge Type: Trd

Records of LAPPC (LAPC) Authorisations within 500m of the study site: 0

Database searched and no data found.

Records of Category 3 or 4 Radioactive Substance Licences within 500m of the study site: 0

Database searched and no data found.

Records of Licenced Discharge Consents within 500m of the study site: 3

The following Licenced Discharge Consents records are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance	Direction	NGR	Details	
6A	270.0	SE	391050,221350	Address: Woodward Aircraft Controls, Arle Court, Cheltenham, Gloucestershire Effluent Type: Trade Discharges - Cooling Water Permit Number: S/20/25107/T Permit Version: 2	Receiving Water: Arle Court Brook Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 23-12-1996 Effective Date: 29-9-2003 Revocation Date: -
7A	270.0	SE	391050,221350	Address: Woodward Aircraft Controls, Arle Court, Cheltenham, Gloucestershire Effluent Type: Trade Discharges - Cooling Water Permit Number: S/20/25107/T Permit Version: 2	Receiving Water: Arle Court Brook Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 23-12-1996 Effective Date: 29-9-2003 Revocation Date: -
8	367.0	E	391140,221300	Address: Delphi Diesel Systems Limited, Hatherley Lane, Cheltenham, Gloucestershire Effluent Type: Trade Discharges - Site Drainage Permit Number: S/20/25631/T Permit Version: 1	Receiving Water: Arle Court Brook Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 25-7-2000 Effective Date: 25-7-2000 Revocation Date: -

1.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site: 0

Database searched and no data found.

1.3 Environment Agency Recorded Pollution Incidents

Records of National Incidents Recording System, List 2 within 250m of the study site: 0

Database searched and no data found.

Records of National Incidents Recording System, List 1 within 250m of the study site: 0

Database searched and no data found.

1.4 Sites Determined as Contaminated Land under Part IIA EPA 1990¹

How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site? 0

Database searched and no data found.

¹Further information on sites that have been determined under the Contaminated Land Regime is maintained by Local Authorities under Section 78R of the Environmental Protection Act 1990. Information should be available on both sites currently determined as Contaminated Land and Special Sites.

2. Landfill and Other Waste Sites Map

NW

N

NE

W

E

SW
















S

SE



Landfill & Other Waste Sites Legend


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- | | | | | | |
|---|--------------------|---|---------------------------------------|---|-------------------------------------|
|  | Site Outline |  | E.A. Active Landfill |  | Operational Waste Treatment Licence |
|  | Search Buffers (m) |  | E.A. Historic Landfill (Area Data) |  | Closed Waste Treatment Licence |
|  | 250 |  | E.A. Historic Landfill (Point Data) |  | REGIS Waste Licence |
|  | 500 |  | BGS / DoE Survey Landfill |  | Operational Landfill |
| | |  | Local Authority Landfill (Area Data) |  | Closed Landfill |
| | |  | Local Authority Landfill (Point Data) | | |

2. Landfill and Other Waste Sites

2.1 Landfill Sites¹

Records from Environment Agency landfill data within 1000m of the study site: 0

Database searched and no data found.

Records of operational landfill sites sourced from Landmark within 1500m of the study site: 0

Database searched and no data found.

Records of Environment Agency historic landfill sites within 1500m of the study site: 2

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance	Direction	NGR	Details
5	5.0	NE	390900,221500	Site Address: Land off Hatherley Lane, Hatherley Waste Licence: Yes Site Reference: 150/408 Waste Type: No data Regis Reference: - Data Type: Polygon Licence Issue: 21-Apr-1994 Licence Surrendered: 06-Oct-1994 Licence Hold Address: - Operator: -
Not shown	1198.0	NW	389800,222500	Site Address: Swanbrook Grill, Swanbrook Grill, Cheltenham Road, Valley Farm, Staverton, Near Cheltenham, Gloucestershire Waste Licence: Yes Site Reference: 20/267, 897 226, 1600/0267 Waste Type: Inert, Industrial, Commercial Regis Reference: - Data Type: Polygon Licence Issue: 08-Feb-1980 Licence Surrendered: 31-Dec-1993 Licence Hold Address: Cafe, Swanbrook Grill, Gloucester Road, Staverton Operator: -

Records of non-operational landfill sites sourced from Landmark within 1500m of the study site: 2

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance	Direction	NGR	Details
1	221.0	NE	391000,221700	Site Address: Hatherley Lane, Arle Court Roundabout, CHELTENHAM, Gloucestershire, Landfill Licence: 160AHAAL Agency Reference: Waste Type: Inert Waste Description: Inert Landfill Known Restrictions: No known restriction on source of waste Record Date: 01-May-1994 Transfer Date: Modification Date: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Category: LANDFILL Regulator: EA - Midlands Region - Lower Severn Area (Tewkesbury) Size: Very Small (<10,000 tonnes/year)

¹This information is gathered from a wide range of sources including, the Environment Agency (Agency), The British Geological Survey (BGS) and under licence from Landmark Information Group Limited®. Data supplied by Landmark Information Group Limited® and the Agency refers to waste management licences required (under either the Control of Pollution Act 1974 and/or the Environmental Protection Act 1990) by anyone involved in waste disposal. A survey by the BGS undertaken in 1972/3 provides data on some older landfill sites that were not subject to legislation. Environment Agency data on historic waste / landfill sites is still being updated by the Agency as part of an ongoing project. GroundSure use this data because more accurate data is not yet publicly available and will use enhanced Environment Agency data when it is released.

GroundSure Environmental Data Report Reference: HMD-24-174362

Not shown	1341.0	NW	389700,222600	Site Address: Swanbrook Grill, Gloucester Road, Staverton, CHELTENHAM, Gloucestershire, Landfill Licence: 160AATAL Agency Reference: Waste Type: Inert Waste Description: Inert Landfill Known Restrictions: No known restriction on source of waste	Record Date: 01-Feb-1980 Transfer Date: Modification Date: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Category: LANDFILL Regulator: EA - Midlands Region - Lower Severn Area (Tewkesbury) Size: Undefined
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Records of BGS/DoEnon-operational landfill sites within 1500m of the study site: 0

Database searched and no data found.

Records of Local Authority landfill sites within 1500m of the study site: 0

Database searched and no data found.

2.2 Other Waste Sites¹

Records of operational waste treatment, transfer or disposal sites within 500m of the study site: 1

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance	Direction	NGR	Details
3A	350.0	N	390595,221885	Site Address: Cotswold View, Golden Valley, Gloucester Road, CHELTENHAM, Gloucestershire, GL51 0SS Landfill Licence: B21AATAL EA Reference: EAWML48061 Waste Type: Non-Hazardous Rating: Non-Hazardous Scrapyard Known Restrictions: No known restriction on source of waste Record Date: 01-Mar-1997 Transfer Date: Modification Date: 01-Mar-1999 Status: Operational as far as is known Category: SCRAPYARD Regulator: EA - Midlands Region - Lower Severn Area (Tewkesbury) Size: Very Small (<10,000 tonnes/year)

Records of non-operational waste treatment, transfer or disposal sites within 500m of the study site: 1

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance	Direction	NGR	Details
4A	354.0	N	221887,221887	Site Address: Cotswold View, Golden Valley, Gloucester Road, CHELTENHAM, Gloucestershire, GL51 0SS Landfill Licence: 160ADEAL EA Reference: - Waste Type: Non-Hazardous Waste Description: - Known Restrictions: No known restriction on source of waste Record Date: 01-Dec-1991 Transfer Date: Modification Date: 01-Apr-1995 Status: Record superseded Category: SCRAPYARD Regulator: EA - Midlands Region - Lower Severn Area (Tewkesbury) Size: Very Small (<10,000 tonnes/year)

Records of Environment Agency (REGIS) waste sites within 1500m of the study site: 6

¹This information is gathered from a wide range of sources including, the Environment Agency (Agency), The British Geological Survey (BGS) and under licence from Landmark Information Group Limited®. Data supplied by Landmark Information Group Limited® and the Agency refers to waste management licences required (under either the Control of Pollution Act 1974 and/or the Environmental Protection Act 1990) by anyone involved in waste disposal. A survey by the BGS undertaken in 1972/3 provides data on some older landfill sites that were not subject to legislation. Environment Agency data on historic waste / landfill sites is still being updated by the Agency as part of an ongoing project. GroundSure use this data because more accurate data is not yet publicly available and will use enhanced Environment Agency data when it is released.

GroundSure Environmental Data Report Reference: HMD-24-174362

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance	Direction	NGR	Details	
7	198.0	NE	390886,221757	Site Address: Shurdington, Gloucestershire, - Type: Landfills taking non-biodegradable wastes (not construction) Size: ← 25000 tonnes Regis Licence Number: CAP001 Operator: Capaldi Plant Hire Limited Surrendered Date: - Waste Management licence No: 48027 Annual Tonnage: 5501	Issue Date: 16/08/1993 Expiry Date: - Effective Date: - Status: Closure Modified: - Site Name: Brook Villa Farm Cancelled Date: - Correspondence Address: Pillar House, 113/115, Bath Road, Cheltenham, Gloucestershire, GL53 7LS
8B	441.0	N	390627,221993	Site Address: Golden Valley, Gloucester Road, Cheltenham, Gloucestershire, GL50 0SS Type: Metal recycling sites (vehicle dismantlers) Size: ← 25000 tonnes Regis Licence Number: BUC001 Operator: Buckland Henry Raymond Surrendered Date: - Waste Management licence No: 48061 Annual Tonnage: No Data	Issue Date: 03/12/1991 Expiry Date: - Effective Date: - Status: Issued Modified: - Site Name: Cotswold View Cancelled Date: - Correspondence Address: Oak Priors, Gloucester Road, Staverton, Cheltenham, Gloucestershire, GL50 0SS
9B	441.0	N	390627,221993	Site Address: Golden Valley, Gloucester Road, Staverton, Cheltenham, Gloucestershire, GL51 0SS Type: Metal recycling sites (vehicle dismantlers) Size: ← 25000 tonnes Regis Licence Number: BUC001 Operator: Buckland Henry Raymond Surrendered Date: - Waste Management licence No: 48061 Annual Tonnage: 4999	Issue Date: 03/12/1991 Expiry Date: - Effective Date: - Status: Issued Modified: - Site Name: Cotswold View Cancelled Date: - Correspondence Address: Oak Priors, Gloucester Road, Staverton, Cheltenham, Gloucestershire, GL51 0SS
10C	578.0	W	389840,221348	Site Address: Bamfurlong Depot, Golden Valley Interchange, Cheltenham, Gloucestershire, GL51 6SU Type: Household, Commercial and Industrial transfer stations Size: ← 25000 tonnes Regis Licence Number: RIN002 Operator: Ringway Infrastructure Services Limited Surrendered Date: - Waste Management licence No: 48057 Annual Tonnage: 312	Issue Date: 22/03/1995 Expiry Date: - Effective Date: - Status: Issued Modified: - Site Name: Bamfurlong Depot Cancelled Date: - Correspondence Address: Ringway Gloucester Depot, Shepherd Road, Cole Avenue, Gloucester, GL2 5HA
11C	578.0	W	389840,221348	Site Address: Bamfurlong Depot, Golden Valley Interchange, Cheltenham, Gloucestershire, GL51 6SU Type: Household, Commercial and Industrial transfer stations Size: ← 25000 tonnes Regis Licence Number: RIN002 Operator: Ringway Infrastructure Services Ltd Surrendered Date: - Waste Management licence No: 48057 Annual Tonnage: 312	Issue Date: 22/03/1995 Expiry Date: - Effective Date: - Status: Issued Modified: - Site Name: Bamfurlong Depot Cancelled Date: - Correspondence Address: Highways House, 225, London Road, Worcester, WR5 2BE
12C	578.0	W	389840,221348	Site Address: Golden Valley Interchange, Cheltenham, Gloucestershire, GL51 6SU Type: Household, Commercial and Industrial transfer stations Size: ← 25000 tonnes Regis Licence Number: RIN002 Operator: Ringway Highway Services Ltd Surrendered Date: - Waste Management licence No: 48057 Annual Tonnage: 312	Issue Date: 22/03/1995 Expiry Date: - Effective Date: - Status: Issued Modified: - Site Name: Bamfurlong Depot Cancelled Date: - Correspondence Address: Shepherd Road, Cole Avenue, Gloucester, GL2 5HA

3. Current Land Use Map

NW



NE

W

E

SW








SE



Current Land Use Legend



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-  Site Outline
-  Current Industrial Sites
-  Petrol & Fuel Sites
-  Search Buffers (m)
-  Underground High Pressure Oil & Fuel Pipelines

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3. Current Land Uses

3.1 Current Industrial Data

Records of potentially contaminative industrial sites within 500m of the study site:
31

The following records are represented as points on the Current Land Uses map.

ID	Distance	Direction	Company	Address	Activity	Category
1	78.0	SE	Electricity Sub Station	-	Electrical Features	Infrastructure And Facilities
2	238.0	NE	Depot	-	Container and Storage	Transport, Storage And Delivery
3	254.0	SE	Tanks	-	Tanks (Generic)	Industrial Features
4	263.0	SW	D W Taylor	Branch Cottage, Branch Road, The Reddings, Cheltenham, GL51 6RH	Vehicle Repair and Servicing	Repair And Servicing
5	274.0	SE	Electricity Sub Station	-	Electrical Features	Infrastructure And Facilities
6	282.0	N	Scrap Yard	-	Scrap Metal Merchants	Recycling Services
7	282.0	NE	Depot	-	Container and Storage	Transport, Storage And Delivery
8A	303.0	NE	Easy Mix Ltd	Golden Valley, Gloucester Rd, Cheltenham, Gloucestershire, GL51 0TT	Concrete Products	Industrial Products
9A	304.0	NE	Keltruck Ltd	Golden Valley, Gloucester Road, Cheltenham, GL51 0TT	New Vehicles	Motoring
10	323.0	E	The Nuffield Hospital Cheltenham	Hatherley Lane, Cheltenham, GL51 6SY	Hospitals	Health Practitioners And Establishments
11	328.0	E	Electricity Sub Station	-	Electrical Features	Infrastructure And Facilities
12C	338.0	E	Electricity Sub Station	-	Electrical Features	Infrastructure And Facilities
13B	342.0	N	Frost Engineering	Gloucester Road, Staverton, Cheltenham, GL51 0SS	Precision Engineers	Engineering Services
14	347.0	S	Electricity Sub Station	-	Electrical Features	Infrastructure And Facilities
15B	354.0	N	Harry Buckland	Cotswold View, Gloucester Road, Staverton, Cheltenham, GL51 0SS	Vehicle Breakers	Recycling Services
16D	357.0	E	Electricity Sub Station	-	Electrical Features	Infrastructure And Facilities
17	357.0	SE	Electricity Sub Station	-	Electrical Features	Infrastructure And Facilities
18	360.0	E	Works	-	Unspecified Works Or Factories	Industrial Features
19C	366.0	E	Chimney	-	Chimneys	Industrial Features
20	368.0	NW	B J M Refrigeration	23 Valley Mobile Home Park, Bamfurlong Lane, Cheltenham, GL51 6SL	Domestic Appliances	Consumer Products
21	369.0	SE	Tank	-	Tanks (Generic)	Industrial Features
22D	371.0	SE	Tank	-	Tanks (Generic)	Industrial Features
23	384.0	SE	Bulldog Protection Systems	Little Elms, The Reddings, Cheltenham, GL51 6RY	Electronic Equipment	Industrial Products
24	387.0	E	Tanks	-	Tanks (Generic)	Industrial Features
25E	390.0	E	Chimney	-	Chimneys	Industrial Features
26	394.0	SE	Electricity Sub Station	-	Electrical Features	Infrastructure And Facilities
27E	397.0	E	Tanks	-	Tanks (Generic)	Industrial Features
28	423.0	SE	A Piece of Cake	4, Leyson Road, The Reddings, Cheltenham, GL51 6RU	Baking and Confectionery	Foodstuffs