

Envirolab Job Number: 18/08822

Client Project Name: Former Lombard Service Station

Client Project Ref: 733272

Lab Sample ID	18/08822/22	18/08822/27	18/08822/28	18/08822/30	18/08822/35	18/08822/39	18/08822/40		Units	Method ref
Client Sample No	106	101	102	104	109	104	105			
Client Sample ID	WS1	WS3	WS3	WS3	WS3	WS4	WS4			
Depth to Top	2.90	0.20	0.60	1.30	3.60	0.90	1.10			
Depth To Bottom										
Date Sampled	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	3		4AB	5	3	4A	4A			
PAH-16MS										
Acenaphthene _A ^{M#}	-	-	<0.01	-	-	-	<0.01	mg/kg	A T 019s	
Acenaphthylene _A ^{M#}	-	-	0.02	-	-	-	<0.01	mg/kg	A T 019s	
Anthracene _A ^{M#}	-	-	0.02	-	-	-	0.06	mg/kg	A T 019s	
Benzo(a)anthracene _A ^{M#}	-	-	0.24	-	-	-	0.22	mg/kg	A T 019s	
Benzo(a)pyrene _A ^{M#}	-	-	0.22	-	-	-	0.12	mg/kg	A T 019s	
Benzo(b)fluoranthene _A ^{M#}	-	-	0.28	-	-	-	0.17	mg/kg	A T 019s	
Benzo(ghi)perylene _A ^{M#}	-	-	0.11	-	-	-	<0.05	mg/kg	A T 019s	
Benzo(k)fluoranthene _A ^{M#}	-	-	0.09	-	-	-	<0.07	mg/kg	A T 019s	
Chrysene _A ^{M#}	-	-	0.25	-	-	-	0.19	mg/kg	A T 019s	
Dibenzo(ah)anthracene _A ^{M#}	-	-	<0.04	-	-	-	<0.04	mg/kg	A T 019s	
Fluoranthene _A ^{M#}	-	-	0.29	-	-	-	0.42	mg/kg	A T 019s	
Fluorene _A ^{M#}	-	-	<0.01	-	-	-	<0.01	mg/kg	A T 019s	
Indeno(123-cd)pyrene _A ^{M#}	-	-	0.15	-	-	-	0.06	mg/kg	A T 019s	
Naphthalene _A ^{M#}	-	-	<0.03	-	-	-	<0.03	mg/kg	A T 019s	
Phenanthrene _A ^{M#}	-	-	0.11	-	-	-	0.42	mg/kg	A T 019s	
Pyrene _A ^{M#}	-	-	0.24	-	-	-	0.29	mg/kg	A T 019s	
Total PAH-16MS _A ^{M#}	-	-	2.02	-	-	-	1.95	mg/kg	A T 019s	
TPH Banded 1 with ID										
>C6-C8 _A ^{M#}	-	-	<5	-	-	-	<5	mg/kg	A T 007s	
>C8-C10 _A ^{M#}	-	-	<1	-	-	-	32	mg/kg	A T 007s	
>C10-C12 _A ^{M#}	-	-	<1	-	-	-	<1	mg/kg	A T 007s	
>C12-C16 _A ^{M#}	-	-	<2	-	-	-	<2	mg/kg	A T 007s	
>C16-C21 _A ^{M#}	-	-	5	-	-	-	12	mg/kg	A T 007s	
>C21-C40 _A [#]	-	-	26	-	-	-	141	mg/kg	A T 007s	
TPH ID (for FID characterisations) _A	-	-	Unknown profile	-	-	-	Possible PAHs + other unknown heavier hydrocarbons		A T 007s	
Total TPH Banded 1 with ID _A	-	-	31	-	-	-	185	mg/kg	A T 007s	

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Client Sample No	106	101	102	104	109	104	105			
Client Sample ID	WS1	WS3	WS3	WS3	WS3	WS4	WS4			
Depth to Top	2.90	0.20	0.60	1.30	3.60	0.90	1.10			
Depth To Bottom										
Date Sampled	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	3		4AB	5	3	4A	4A			
VOC										
Dichlorodifluoromethane _A	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Chloromethane _A	-	-	-	<10	-	<10	-	µg/kg	A T 006s	
Vinyl Chloride _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Bromomethane _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Chloroethane _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Trichlorofluoromethane _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,1-Dichloroethene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Carbon Disulphide _A [#]	-	-	-	3	-	<1	-	µg/kg	A T 006s	
Dichloromethane _A	-	-	-	<5	-	<5	-	µg/kg	A T 006s	
trans 1,2-Dichloroethene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,1-Dichloroethane _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
cis 1,2-Dichloroethene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
2,2-Dichloropropane _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Bromochloromethane _A [#]	-	-	-	<5	-	<5	-	µg/kg	A T 006s	
Chloroform _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,1,1-Trichloroethane _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,1-Dichloropropene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Carbon Tetrachloride _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,2-Dichloroethane _A [#]	-	-	-	<2	-	<2	-	µg/kg	A T 006s	
Benzene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Trichloroethene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,2-Dichloropropane _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Dibromomethane _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Bromodichloromethane _A [#]	-	-	-	<10	-	<10	-	µg/kg	A T 006s	
cis 1,3-Dichloropropene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Toluene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
trans 1,3-Dichloropropene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,1,2-Trichloroethane _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,3-Dichloropropane _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Tetrachloroethene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Dibromochloromethane _A [#]	-	-	-	<3	-	<3	-	µg/kg	A T 006s	
1,2-Dibromoethane _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	

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Client Sample No	106	101	102	104	109	104	105			
Client Sample ID	WS1	WS3	WS3	WS3	WS3	WS4	WS4			
Depth to Top	2.90	0.20	0.60	1.30	3.60	0.90	1.10			
Depth To Bottom										
Date Sampled	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	3		4AB	5	3	4A	4A			
Chlorobenzene _A [#]	-	-	-	<1	-	<1	-	µg/kg		
1,1,1,2-Tetrachloroethane _A	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Ethylbenzene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
m & p Xylene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
o-Xylene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Styrene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Bromoform _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Isopropylbenzene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,1,2,2-Tetrachloroethane _A	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,2,3-Trichloropropane _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
Bromobenzene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
n-Propylbenzene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
2-Chlorotoluene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,3,5-Trimethylbenzene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
4-Chlorotoluene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
tert-Butylbenzene _A [#]	-	-	-	<2	-	<2	-	µg/kg	A T 006s	
1,2,4-Trimethylbenzene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
sec-Butylbenzene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
4-Isopropyltoluene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,3-Dichlorobenzene _A	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,4-Dichlorobenzene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
n-Butylbenzene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,2-Dichlorobenzene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,2-Dibromo-3-chloropropane _A	-	-	-	<2	-	<2	-	µg/kg	A T 006s	
1,2,4-Trichlorobenzene _A	-	-	-	<3	-	<3	-	µg/kg	A T 006s	
Hexachlorobutadiene _A [#]	-	-	-	<1	-	<1	-	µg/kg	A T 006s	
1,2,3-Trichlorobenzene _A	-	-	-	<3	-	<3	-	µg/kg	A T 006s	

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Client Sample No	106	101	102	104	109	104	105			
Client Sample ID	WS1	WS3	WS3	WS3	WS3	WS4	WS4			
Depth to Top	2.90	0.20	0.60	1.30	3.60	0.90	1.10			
Depth To Bottom										
Date Sampled	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18	16-Oct-18			
Sample Type	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES	Soil - ES			
Sample Matrix Code	3		4AB	5	3	4A	4A			
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	-	-	-	<0.01	-	-	mg/kg	A T 022s	
Ali >C6-C8 _A [#]	<0.01	-	-	-	<0.01	-	-	mg/kg	A T 022s	
Ali >C8-C10 _A ^{M#}	<1	-	-	-	<1	-	-	mg/kg	A T 055s	
Ali >C10-C12 _A ^{M#}	<1	-	-	-	<1	-	-	mg/kg	A T 055s	
Ali >C12-C16 _A ^{M#}	<1	-	-	-	<1	-	-	mg/kg	A T 055s	
Ali >C16-C21 _A ^{M#}	<1	-	-	-	<1	-	-	mg/kg	A T 055s	
Ali >C21-C35 _A	4	-	-	-	1	-	-	mg/kg	A T 055s	
Total Aliphatics >C5-C35 _A	4	-	-	-	1	-	-	mg/kg	A T 055s	
Aro >C5-C7 _A [#]	<0.01	-	-	-	<0.01	-	-	mg/kg	A T 022s	
Aro >C7-C8 _A [#]	<0.01	-	-	-	<0.01	-	-	mg/kg	A T 022s	
Aro >C8-C10 _A ^{M#}	<1	-	-	-	<1	-	-	mg/kg	A T 055s	
Aro >C10-C12 _A ^{M#}	<1	-	-	-	<1	-	-	mg/kg	A T 055s	
Aro >C12-C16 _A	<1	-	-	-	<1	-	-	mg/kg	A T 055s	
Aro >C16-C21 _A ^{M#}	<1	-	-	-	<1	-	-	mg/kg	A T 055s	
Aro >C21-C35 _A ^{M#}	1	-	-	-	<1	-	-	mg/kg	A T 055s	
Total Aromatics >C5-C35 _A	1	-	-	-	<1	-	-	mg/kg	A T 055s	
TPH (Ali & Aro >C5-C35) _A	5	-	-	-	1	-	-	mg/kg	A T 055s	
BTEX - Benzene _A [#]	<0.01	-	-	-	<0.01	-	-	mg/kg	A T 022s	
BTEX - Toluene _A [#]	<0.01	-	-	-	<0.01	-	-	mg/kg	A T 022s	
BTEX - Ethyl Benzene _A [#]	<0.01	-	-	-	<0.01	-	-	mg/kg	A T 022s	
BTEX - m & p Xylene _A [#]	<0.01	-	-	-	<0.01	-	-	mg/kg	A T 022s	
BTEX - o Xylene _A [#]	<0.01	-	-	-	<0.01	-	-	mg/kg	A T 022s	
MTBE _A [#]	<0.01	-	-	-	<0.01	-	-	mg/kg	A T 022s	

REPORT NOTES

General:

This report shall not be reproduced, except in full, without written approval from Envirolab.

All samples contained within this report, and any received with the same delivery, will be disposed of one month after the date of this report.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.

Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 18/09444
Issue Number: 1
Date: 23 November, 2018

Client: Structural Soils Limited (Bristol)
The Old School
Stillhouse Lane
Bedminster
Bristol
UK
BS3 4EB

Project Manager: Adam Watts/enviro@soils.co.uk/Jonathan Evans
Project Name: Former Lombard Service Station, Bristol
Project Ref: 733272
Order No: N/A
Date Samples Received: 09/11/18
Date Instructions Received: 12/11/18
Date Analysis Completed: 23/11/18

Prepared by:


Melanie Marshall
Laboratory Coordinator

Approved by:


Richard Wong
Client Manager

Envirolab Job Number: 18/09444

Client Project Name: Former Lombard Service Station, Bristol

Client Project Ref: 733272

Lab Sample ID	18/09444/1	18/09444/2	18/09444/3	18/09444/4	18/09444/5	18/09444/6			Units	Method ref
Client Sample No	101	101	101	101	101	101				
Client Sample ID	WS4	WS1	BH1	BH2	BH3	WS3				
Depth to Top	1.30	2.70	2.70	3.30	3.30	2.90				
Depth To Bottom										
Date Sampled	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
pH (w) _A [#]	-	-	7.77	7.46	7.22	-				
Hardness Total _A [#]	-	-	398	331	421	-			mg/l Ca CO3	A T 049w
Sulphate (w) _A [#]	-	-	108	76	30	-			mg/l	A T 026w
DOC (w) _A [#]	-	-	34.9	41.1	8.0	-			mg/l	A T 032w
Arsenic (dissolved) _A [#]	-	-	7	19	6	-			µg/l	A T 025w
Cadmium (dissolved) _A [#]	-	-	<0.2	<0.2	<0.2	-			µg/l	A T 025w
Calcium (dissolved) _A [#]	-	-	123	74	92	-			mg/l	A T 049w
Copper (dissolved) _A [#]	-	-	10	6	13	-			µg/l	A T 025w
Chromium (dissolved) _A [#]	-	-	<1	<1	1	-			µg/l	A T 025w
Lead (dissolved) _A [#]	-	-	1	<1	<1	-			µg/l	A T 025w
Mercury (dissolved) _A [#]	-	-	<0.1	<0.1	<0.1	-			µg/l	A T 025w
Nickel (dissolved) _A [#]	-	-	3	2	6	-			µg/l	A T 025w
Selenium (dissolved) _A [#]	-	-	<1	<1	<1	-			µg/l	A T 025w
Zinc (dissolved) _A [#]	-	-	5	2	4	-			µg/l	A T 025w
Ali >C5-C6 (w) _A [#]	<1	<1	<1	2	<1	<1			µg/l	A T 022w
Ali >C6-C8 (w) _A [#]	<1	<1	<1	1	<1	<1			µg/l	A T 022w
Ali >C8-C10 (w) _A [#]	-	-	-	-	-	<1			µg/l	A T 022w
Aro >C5-C7 (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
Aro >C8-C9 (w) _A [#]	-	-	-	-	-	<1			µg/l	A T 022w
Aro >C9-C10 (w) _A [#]	-	-	-	-	-	<1			µg/l	A T 022w
BTEX - Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
MTBE (w) _A [#]	<1	<1	<1	2	<1	<1			µg/l	A T 022w

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Lab Sample ID	18/09444/1	18/09444/2	18/09444/3	18/09444/4	18/09444/5	18/09444/6			Units	Method ref
Client Sample No	101	101	101	101	101	101				
Client Sample ID	WS4	WS1	BH1	BH2	BH3	WS3				
Depth to Top	1.30	2.70	2.70	3.30	3.30	2.90				
Depth To Bottom										
Date Sampled	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
PAH 16MS (w)										
Acenaphthene (w) _A [#]	-	-	<0.01	<0.01	<0.01	-		µg/l	A T 019w	
Acenaphthylene (w) _A [#]	-	-	<0.01	<0.01	<0.01	-		µg/l	A T 019w	
Anthracene (w) _A [#]	-	-	<0.01	<0.01	<0.01	-		µg/l	A T 019w	
Benzo(a)anthracene (w) _A [#]	-	-	<0.01	<0.01	<0.01	-		µg/l	A T 019w	
Benzo(a)pyrene (w) _A [#]	-	-	<0.01	<0.01	<0.01	-		µg/l	A T 019w	
Benzo(b)fluoranthene (w) _A [#]	-	-	<0.01	<0.01	<0.01	-		µg/l	A T 019w	
Benzo(ghi)perylene (w) _A [#]	-	-	<0.01	<0.01	<0.01	-		µg/l	A T 019w	
Benzo(k)fluoranthene (w) _A [#]	-	-	<0.01	<0.01	<0.01	-		µg/l	A T 019w	
Chrysene (w) _A [#]	-	-	<0.01	<0.01	<0.01	-		µg/l	A T 019w	
Dibenzo(ah)anthracene (w) _A [#]	-	-	<0.01	<0.01	<0.01	-		µg/l	A T 019w	
Fluoranthene (w) _A [#]	-	-	0.01	<0.01	<0.01	-		µg/l	A T 019w	
Fluorene (w) _A [#]	-	-	0.01	<0.01	<0.01	-		µg/l	A T 019w	
Indeno(123-cd)pyrene (w) _A [#]	-	-	<0.01	<0.01	<0.01	-		µg/l	A T 019w	
Naphthalene (w) _A [#]	-	-	<0.01	<0.01	<0.01	-		µg/l	A T 019w	
Phenanthrene (w) _A [#]	-	-	0.04	0.01	<0.01	-		µg/l	A T 019w	
Pyrene (w) _A [#]	-	-	0.02	<0.01	<0.01	-		µg/l	A T 019w	
Total PAH 16MS (w) _A [#]	-	-	0.08	0.01	<0.01	-		µg/l	A T 019w	

Envirolab Job Number: 18/09444

Client Project Name: Former Lombard Service Station, Bristol

Client Project Ref: 733272

Lab Sample ID	18/09444/1	18/09444/2	18/09444/3	18/09444/4	18/09444/5	18/09444/6			Units	Method ref
Client Sample No	101	101	101	101	101	101				
Client Sample ID	WS4	WS1	BH1	BH2	BH3	WS3				
Depth to Top	1.30	2.70	2.70	3.30	3.30	2.90				
Depth To Bottom										
Date Sampled	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
VOC (w)										
Dichlorodifluoromethane _A	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Chloromethane _A	<10	<10	<10	<10	<10	<10		µg/l	A T 006w	
Vinyl Chloride _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Bromomethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Chloroethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Trichlorofluoromethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
trans 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Dichloromethane _A	<5	<5	<5	<5	<5	<5		µg/l	A T 006w	
Carbon Disulphide _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,1-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,1-Dichloroethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
cis 1,2-Dichloroethene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Bromochloromethane _A [#]	<5	<5	<5	<5	<5	<5		µg/l	A T 006w	
Chloroform _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
2,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,2-Dichloroethane _A [#]	<2	<2	<2	<2	<2	<2		µg/l	A T 006w	
1,1,1-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,1-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Benzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Carbon Tetrachloride _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Dibromomethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,2-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Bromodichloromethane _A [#]	<10	<10	<10	<10	<10	<10		µg/l	A T 006w	
Trichloroethene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
cis 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
trans 1,3-Dichloropropene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,1,2-Trichloroethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Toluene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,3-Dichloropropane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Dibromochloromethane _A [#]	<3	<3	<3	<3	<3	<3		µg/l	A T 006w	
1,2-Dibromoethane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Tetrachloroethene _A	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	

Envirolab Job Number: 18/09444

Client Project Name: Former Lombard Service Station, Bristol

Client Project Ref: 733272

Lab Sample ID	18/09444/1	18/09444/2	18/09444/3	18/09444/4	18/09444/5	18/09444/6			Units	Method ref
Client Sample No	101	101	101	101	101	101				
Client Sample ID	WS4	WS1	BH1	BH2	BH3	WS3				
Depth to Top	1.30	2.70	2.70	3.30	3.30	2.90				
Depth To Bottom										
Date Sampled	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
1,1,1,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1		µg/l		
Chlorobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Ethylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
m & p Xylene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Bromoform _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Styrene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,1,2,2-Tetrachloroethane _A	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
o-Xylene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,2,3-Trichloropropane _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Isopropylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
Bromobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
2-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
n-propylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
4-Chlorotoluene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,2,4-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
4-Isopropyltoluene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,3,5-Trimethylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,2-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,4-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
sec-Butylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
tert-Butylbenzene _A [#]	<2	<2	<2	<2	<2	<2		µg/l	A T 006w	
1,3-Dichlorobenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
n-butylbenzene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	
1,2-Dibromo-3-chloropropane _A [#]	<2	<2	<2	<2	<2	<2		µg/l	A T 006w	
1,2,4-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3		µg/l	A T 006w	
1,2,3-Trichlorobenzene _A [#]	<3	<3	<3	<3	<3	<3		µg/l	A T 006w	
Hexachlorobutadiene _A [#]	<1	<1	<1	<1	<1	<1		µg/l	A T 006w	

Envirolab Job Number: 18/09444

Client Project Name: Former Lombard Service Station, Bristol

Client Project Ref: 733272

Lab Sample ID	18/09444/1	18/09444/2	18/09444/3	18/09444/4	18/09444/5	18/09444/6			Units	Method ref
Client Sample No	101	101	101	101	101	101				
Client Sample ID	WS4	WS1	BH1	BH2	BH3	WS3				
Depth to Top	1.30	2.70	2.70	3.30	3.30	2.90				
Depth To Bottom										
Date Sampled	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18	07-Nov-18				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
TPH CWG (w)										
Ali >C8-C10 (w) _A [#]	12	<5	<5	8	<5	-		µg/l	A T 055w	
Ali >C10-C12 (w) _A [#]	<5	<5	<5	<5	<5	-		µg/l	A T 055w	
Ali >C12-C16 (w) _A [#]	<5	<5	<5	<5	<5	-		µg/l	A T 055w	
Ali >C16-C21 (w) _A [#]	6	<5	<5	<5	<5	-		µg/l	A T 055w	
Ali >C21-C35 (w) _A [#]	118	<5	<5	<5	<5	-		µg/l	A T 055w	
Total Aliphatics >C5-C35 (w) _A [#]	136	<5	<5	8	<5	-		µg/l	A T 055w	
Aro >C8-C10 (w) _A	27	<5	<5	22	<5	-		µg/l	A T 055w	
Aro >C10-C12 (w) _A [#]	<5	<5	<5	12	<5	-		µg/l	A T 055w	
Aro >C12-C16 (w) _A [#]	<5	<5	<5	5	<5	-		µg/l	A T 055w	
Aro >C16-C21 (w) _A [#]	5	5	6	<5	<5	-		µg/l	A T 055w	
Aro >C21-C35 (w) _A [#]	27	<10	<10	<10	<10	-		µg/l	A T 055w	
Total Aromatics >C5-C35 (w) _A	59	<10	<10	39	<10	-		µg/l	A T 055w	
TPH (Ali & Aro >C5-C35) (w) _A	195	<10	<10	47	<10	-		µg/l	A T 055w	

REPORT NOTES

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All samples contained within this report, and any received with the same delivery, will be disposed of one month after the date of this report.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.

Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

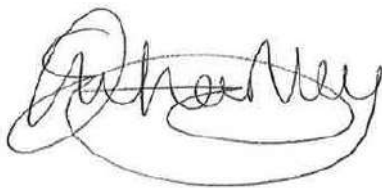
FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 18/10696
Issue Number: 1
Date: 02 January, 2019

Client: Structural Soils Limited (Bristol)
The Old School
Stillhouse Lane
Bedminster
Bristol
UK
BS3 4EB

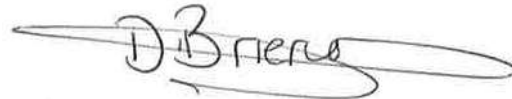
Project Manager: Adam Watts/enviro@soils.co.uk
Project Name: Former Lombard Service Station
Project Ref: 733272
Order No: N/A
Date Samples Received: 14/12/18
Date Instructions Received: 18/12/18
Date Analysis Completed: 02/01/19

Prepared by:



Elisha Hartley
Admin Assistant

Approved by:



Danielle Brierley
Client Manager

Envirolab Job Number: 18/10696

Client Project Name: Former Lombard Service Station

Client Project Ref: 733272

Lab Sample ID	18/10696/1	18/10696/2	18/10696/3	18/10696/4	18/10696/5	18/10696/6			Units	Method ref
Client Sample No	1	1	1	1	1	1				
Client Sample ID	BH1	BH2	BH3	WS1	WS3	WS4				
Depth to Top	1.95	2.90	3.05	2.10	1.70	1.35				
Depth To Bottom										
Date Sampled	13-Dec-18	13-Dec-18	13-Dec-18	13-Dec-18	13-Dec-18	13-Dec-18				
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW				
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A				
TPH CWG (w)										
Ali >C5-C6 (w) _A [#]	2	2	<1	<1	<1	<1			µg/l	A T 022w
Ali >C6-C8 (w) _A [#]	17	2	<1	<1	<1	<1			µg/l	A T 022w
Ali >C8-C10 (w) _A [#]	56	18	<5	<5	<5	6			µg/l	A T 055w
Ali >C10-C12 (w) _A [#]	62	6	<5	<5	<5	<5			µg/l	A T 055w
Ali >C12-C16 (w) _A [#]	21	<5	<5	<5	<5	56			µg/l	A T 055w
Ali >C16-C21 (w) _A [#]	<5	<5	<5	<5	<5	65			µg/l	A T 055w
Ali >C21-C35 (w) _A [#]	6	<5	<5	<5	<5	44			µg/l	A T 055w
Total Aliphatics (w) _A [#]	164	28	<5	<5	<5	171			µg/l	A T 055w
Aro >C5-C7 (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
Aro >C8-C10 (w) _A	472	59	<5	<5	<5	24			µg/l	A T 055w
Aro >C10-C12 (w) _A [#]	169	54	<5	<5	<5	21			µg/l	A T 055w
Aro >C12-C16 (w) _A [#]	132	41	<5	<5	<5	21			µg/l	A T 055w
Aro >C16-C21 (w) _A [#]	20	8	<5	<5	<5	12			µg/l	A T 055w
Aro >C21-C35 (w) _A [#]	13	22	<10	<10	<10	22			µg/l	A T 055w
Total Aromatics (w) _A	806	185	<10	<10	<10	99			µg/l	A T 055w
TPH (Ali & Aro >C5-C35) (w) _A	970	213	<10	<10	<10	270			µg/l	A T 055w
BTEX - Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1			µg/l	A T 022w
MTBE (w) _A [#]	<1	2	<1	<1	<1	<1			µg/l	A T 022w

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TPH analysis of water by method A-T-007:

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Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

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Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
If any calculation cells below state "0.00000", testing has NOT been undertaken that contributes to that Hazardous Property.

Haswaste developed by Dr. Iain Haslock.

733272 - Former Lombard Service Station, Bristol

TP/WS/BH
Depth (m)
Envirolab reference

BH1	BH1	BH1	BH2	BH3	BH3	WS1	WS1	WS1
0.70	1.40	2.70	0.30	0.50	1.00	0.30	0.80	2.90
18/08822/1	18/08822/3	18/08822/6	18/08822/7	18/08822/13	18/08822/14	18/08822/17	18/08822/18	18/08822/22

% Moisture

%

16.7			14.0		22.8	13.1		
------	--	--	------	--	------	------	--	--

pH (soil)

pH (leachate)

9.47			10.05		9.31	10.25		
------	--	--	-------	--	------	-------	--	--

Arsenic

mg/kg

18			16		27	16		
----	--	--	----	--	----	----	--	--

Cadmium

mg/kg

0.9			2.1		7.9	3.0		
-----	--	--	-----	--	-----	-----	--	--

Copper

mg/kg

65			61		89	48		
----	--	--	----	--	----	----	--	--

Cr/VI or Chromium

mg/kg

19			17		19	19		
----	--	--	----	--	----	----	--	--

Lead

mg/kg

839			290		442	221		
-----	--	--	-----	--	-----	-----	--	--

Mercurv

mg/kg

1.58			1.05		2.46	1.07		
------	--	--	------	--	------	------	--	--

Nickel

mg/kg

25			23		34	17		
----	--	--	----	--	----	----	--	--

Selenium

mg/kg

1			1		1	1		
---	--	--	---	--	---	---	--	--

Zinc

mg/kg

207			229		210	202		
-----	--	--	-----	--	-----	-----	--	--

Barium

mg/kg

--	--	--	--	--	--	--	--	--

Beryllium

mg/kg

--	--	--	--	--	--	--	--	--

Vanadium

mg/kg

--	--	--	--	--	--	--	--	--

Cobalt

mg/kg

--	--	--	--	--	--	--	--	--

Manganese

mg/kg

--	--	--	--	--	--	--	--	--

Molybdenum

mg/kg

--	--	--	--	--	--	--	--	--

Antimony

mg/kg

--	--	--	--	--	--	--	--	--

Aluminium

mg/kg

--	--	--	--	--	--	--	--	--

Bismuth

mg/kg

--	--	--	--	--	--	--	--	--

CrIII

mg/kg

--	--	--	--	--	--	--	--	--

Iron

mg/kg

--	--	--	--	--	--	--	--	--

Strontium

mg/kg

--	--	--	--	--	--	--	--	--

Tellurium

mg/kg

--	--	--	--	--	--	--	--	--

Thallium

mg/kg

--	--	--	--	--	--	--	--	--

Titanium

mg/kg

--	--	--	--	--	--	--	--	--

Tungsten

mg/kg

--	--	--	--	--	--	--	--	--

Ammoniacal N

mg/kg

--	--	--	--	--	--	--	--	--

ws Boron

mg/kg

--	--	--	--	--	--	--	--	--

PAH (Input Total PAH OR individual PAH results)

Acenaphthene

mg/kg

0.01			0.01		0.02	0.02		
------	--	--	------	--	------	------	--	--

Acenaphthylene

mg/kg

0.01			0.02		0.01	0.03		
------	--	--	------	--	------	------	--	--

Anthracene

mg/kg

0.02			0.04		0.08	0.06		
------	--	--	------	--	------	------	--	--

Benzo(a)anthracene

mg/kg

0.08			0.33		0.50	0.31		
------	--	--	------	--	------	------	--	--

Benzo(a)pyrene

mg/kg

0.09			0.44		0.57	0.38		
------	--	--	------	--	------	------	--	--

Benzo(b)fluoranthene

mg/kg

0.11			0.54		0.68	0.46		
------	--	--	------	--	------	------	--	--

Benzo(ghi)perylene

mg/kg

0.05			0.31		0.29	0.31		
------	--	--	------	--	------	------	--	--

Benzo(k)fluoranthene

mg/kg

0.07			0.18		0.19	0.14		
------	--	--	------	--	------	------	--	--

Chrysene

mg/kg

0.09			0.38		0.54	0.40		
------	--	--	------	--	------	------	--	--

Dibenzo(ah)anthracene

mg/kg

0.04			0.07		0.08	0.05		
------	--	--	------	--	------	------	--	--

Fluoranthene

mg/kg

0.11			0.53		0.86	0.72		
------	--	--	------	--	------	------	--	--

Fluorene

mg/kg

0.01			0.01		0.02	0.02		
------	--	--	------	--	------	------	--	--

Indeno(123cd)pyrene

mg/kg

0.06			0.39		0.37	0.28		
------	--	--	------	--	------	------	--	--

Naphthalene

mg/kg

0.03			0.03		0.03	0.03		
------	--	--	------	--	------	------	--	--

Phenanthrene

mg/kg

0.05			0.20		0.41	0.43		
------	--	--	------	--	------	------	--	--

Pyrene

mg/kg

0.09			0.46		0.74	0.61		
------	--	--	------	--	------	------	--	--

Coronene

mg/kg

--	--	--	--	--	--	--	--	--

Total PAHs (16 or 17)

mg/kg

--	--	--	--	--	--	--	--	--

TPH

Petrol

mg/kg

--	--	--	--	--	--	--	--	--

Diesel

mg/kg

--	--	--	--	--	--	--	--	--

Lube Oil

mg/kg

--	--	--	--	--	--	--	--	--

Crude Oil

mg/kg

--	--	--	--	--	--	--	--	--

White Spirit / Kerosene

mg/kg

--	--	--	--	--	--	--	--	--

Creosote

mg/kg

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Unknown TPH with ID

mg/kg

52.0			129.0		133.0	1,030.0		
------	--	--	-------	--	-------	---------	--	--

Unknown TPHCWG

mg/kg

		1.0						5.0
--	--	-----	--	--	--	--	--	-----

Total Sulphide

mg/kg

--	--	--	--	--	--	--	--	--

Complex Cyanide

mg/kg

--	--	--	--	--	--	--	--	--

Free (or Total) Cyanide

mg/kg

--	--	--	--	--	--	--	--	--

Thiocyanate

mg/kg

--	--	--	--	--	--	--	--	--

Elemental/Free Sulphur

mg/kg

--	--	--	--	--	--	--	--	--

Phenols Input Total Phenols HPLC OR individual Phenol results.

Phenol

mg/kg

--	--	--	--	--	--	--	--	--

Cresols

mg/kg

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Haswaste, developed by Dr. Iain Haslock.

733272 - Former Lombard Service Station, Bristol

TP/WS/BH
Depth (m)
Envirolab reference

BH1	BH1	BH1	BH2	BH3	BH3	WS1	WS1	WS1
0.70	1.40	2.70	0.30	0.50	1.00	0.30	0.80	2.90
18/08822/1	18/08822/3	18/08822/6	18/08822/7	18/08822/13	18/08822/14	18/08822/17	18/08822/18	18/08822/22

POPs Dioxins and Furans Input Total Dioxins and Furans
OR individual Dioxin and Furan results.

2,3,7,8-TeCDD	mg/kg							
1,2,3,7,8-PeCDD	mg/kg							
1,2,3,4,7,8-HxCDD	mg/kg							
1,2,3,6,7,8-HxCDD	mg/kg							
1,2,3,7,8,9-HxCDD	mg/kg							
1,2,3,4,6,7,8-HpCDD	mg/kg							
OCDD	mg/kg							
2,3,7,8-TeCDF	mg/kg							
1,2,3,7,8-PeCDF	mg/kg							
2,3,4,7,8-PeCDF	mg/kg							
1,2,3,4,7,8-HxCDF	mg/kg							
1,2,3,6,7,8-HxCDF	mg/kg							
2,3,4,6,7,8-HxCDF	mg/kg							
1,2,3,7,8,9-HxCDF	mg/kg							
1,2,3,4,6,7,8-HpCDF	mg/kg							
1,2,3,4,7,8,9-HpCDF	mg/kg							
OCDF	mg/kg							
Total Dioxins and Furans	mg/kg							

Some Pesticides (POPs unless otherwise stated)

Aldrin	mg/kg							
α Hexachlorocyclohexane (alpha-HCH) (leave empty if total HCH results used)	mg/kg							
β Hexachlorocyclohexane (beta-HCH) (leave empty if total HCH results used)	mg/kg							
α Cis-Chlordane (alpha) OR Total Chlordane	mg/kg							
δ Hexachlorocyclohexane (delta-HCH) (leave empty if total HCH results used)	mg/kg							
Dieldrin	mg/kg							
Endrin	mg/kg							
γ Hexachlorocyclohexane (gamma-HCH) (lindane) OR Total HCH	mg/kg							
Heptachlor	mg/kg							
Hexachlorobenzene	mg/kg							
o,p'-DDT (leave empty if total DDT results used)	mg/kg							
p,p'-DDT OR Total DDT	mg/kg							
γ Trans-Chlordane (gamma) (leave empty if total Chlordane results used)	mg/kg							
Chlordecone (kepone)	mg/kg							
Pentachlorobenzene	mg/kg							
Mirex	mg/kg							
Toxaphene (camphechlor)	mg/kg							
Tin (leave empty if Organotin and Tin excl Organotin results used)	mg/kg							
Organotin								
Dibutyltin; DIBT	mg/kg							
Tributyltin; TriBT	mg/kg							
Triphenyltin; TriPT	mg/kg							
Tetrabutyltin; TeBT	mg/kg							
Tin excluding Organotin								
Tin excl Organotin	mg/kg							

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Haswaste, developed by Dr. Iain Haslock.

733272 - Former Lombard Service Station, Bristol
TP/WS/BH
Depth (m)
Envirolab reference

BH1	BH1	BH1	BH2	BH3	BH3	WS1	WS1	WS1
0.70	1.40	2.70	0.30	0.50	1.00	0.30	0.80	2.90
18/08822/1	18/08822/3	18/08822/6	18/08822/7	18/08822/13	18/08822/14	18/08822/17	18/08822/18	18/08822/22

Asbestos in Soil	Thresholds
Asbestos detected in Soil (enter Y or N)	Y
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%
<i>Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.</i>	

N	N	N	N	N	N	N	N	N
If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7								
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y
---	---

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If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

Hazardous Property	Thresholds	Cut Off Value
Corrosive HP8	≥5%	<1%
Irritant HP4	≥10%	<1%
Irritant HP4	≥20%	<1%
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥20%	
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥10%	
Aspiration Toxicity HP5	≥10%	
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥5%	<1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥2.5%	<0.1%
Acute Toxicity HP6	≥15%	<0.1%
Acute Toxicity HP6	≥5%	<1%
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.5%	<0.1%
Acute Toxicity HP6	≥3.5%	<0.1%
Acute Toxicity HP6	≥22.5%	<1%
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥1%	
Carcinogenic HP7 Unknown TPH with D	≥1,000mg/kg	
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5	
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2	
Toxic for Reproduction HP10	≥0.3%	
Toxic for Reproduction HP10	≥3%	
Mutagenic HP11	≥0.1%	
Mutagenic HP11 Unknown TPH with D	≥1,000mg/kg	
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	
Mutagenic HP11	≥1%	
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg	
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg	
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg	
HP13 Sensitising	≥10%	

If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.								
0.00502	0.00000	0.00000	0.00462	0.00000	0.00557	0.00501	0.00000	0.00000
0.00810	0.00000	0.00000	0.00774	0.00000	0.01052	0.00655	0.00000	0.00000
0.01034	0.00000	0.00000	0.00999	0.00000	0.01316	0.00780	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00002	0.00000	0.00003	0.00004	0.00000	0.00000
0.00421	0.00000	0.00000	0.00400	0.00000	0.00530	0.00317	0.00000	0.00000
0.06989	0.00000	0.00010	0.02494	0.00000	0.03412	0.08951	0.00000	0.00050
0.00433	0.00000	0.00010	0.01109	0.00000	0.01027	0.08951	0.00000	0.00050
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00211	0.00000	0.00000	0.00191	0.00000	0.00294	0.00193	0.00000	0.00000
0.00316	0.00000	0.00000	0.00293	0.00000	0.00293	0.00329	0.00000	0.00000
0.08031	0.00000	0.00000	0.03511	0.00000	0.04790	0.02727	0.00000	0.00000
0.00013	0.00000	0.00000	0.00009	0.00000	0.00019	0.00009	0.00000	0.00000
0.00304	0.00000	0.00000	0.00281	0.00000	0.00282	0.00317	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00007	0.00000	0.00000	0.00018	0.00000	0.00061	0.00026	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00325	0.00000	0.00000	0.00308	0.00000	0.00362	0.00352	0.00000	0.00000
0.00012	0.00000	0.00000	0.00012	0.00000	0.00011	0.00012	0.00000	0.00000
0.08021	0.00000	0.00000	0.03486	0.00000	0.04719	0.02890	0.00000	0.00000
0.06989	0.00000	0.00010	0.02494	0.00000	0.03412	0.01920	0.00000	0.00050
0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
0.00000	0.00000	0.00000	0.00003	0.00000	0.00003	0.00002	0.00000	0.00000
43.32	0.00	0.00	110.94	0.00	102.68	895.07	0.00	0.00
0.14417	#DIV/0!	#DIV/0!	0.29333	#DIV/0!	0.33086	0.03206	#DIV/0!	#DIV/0!
9.47	0.00	0.00	10.05	0.00	9.31	10.25	0.00	0.00
9.47	0.00	0.00	10.05	0.00	9.31	10.25	0.00	0.00
0.06989	0.00000	0.00000	0.02494	0.00000	0.03412	0.01920	0.00000	0.00000
0.00433	0.00000	0.00010	0.01109	0.00000	0.01027	0.08951	0.00000	0.00050
0.00304	0.00000	0.00010	0.00281	0.00000	0.00282	0.00317	0.00000	0.00000
43.32	0.00	0.00	110.94	0.00	102.68	895.07	0.00	0.00
0.14417	#DIV/0!	#DIV/0!	0.29333	#DIV/0!	0.33086	0.03206	#DIV/0!	#DIV/0!
0.00421	0.00000	0.00000	0.00400	0.00000	0.00530	0.00298	0.00000	0.00000
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.00421	0.00000	0.00000	0.00400	0.00000	0.00530	0.00317	0.00000	0.00000

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
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733272 - Former Lombard Service Station, Bristol

TP/W/S/BH
Depth (m)
Envirolab reference

BH1	BH1	BH1	BH2	BH3	BH3	WS1	WS1	WS1
0.70	1.40	2.70	0.30	0.50	1.00	0.30	0.80	2.90
18/08822/1	18/08822/3	18/08822/6	18/08822/7	18/08822/13	18/08822/14	18/08822/17	18/08822/18	18/08822/22

Ecotoxic HP14 amended v6	≥25%	<0.1%	0.10718	0.00000	0.00000	0.06480	0.00000	0.07432	0.05467	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.11151	0.00000	0.00010	0.07589	0.00000	0.08458	0.14418	0.00000	0.00050
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	10.76136	0.00000	0.00100	6.59095	0.00000	7.53433	6.36195	0.00000	0.00500
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
If any calculation cells below state "0.0000", testing has NOT been undertaken that contributes to that Hazardous Property.



Haswaste, developed by Dr. Iain Haslock.

733272 - Former Lombard Service Station, Bristol

TP/WS/BH
Depth (m)
Envirolab reference

WS3	WS3	WS3	WS3	WS4	WS4			
0.20	0.60	1.30	3.60	0.90	1.10			
18/08822/27	18/08822/28	18/08822/30	18/08822/35	18/08822/39	18/08822/40			

POPs Dioxins and Furans Input Total Dioxins and Furans
OR individual Dioxin and Furan results.

2,3,7,8-TeCDD	mg/kg							
1,2,3,7,8-PeCDD	mg/kg							
1,2,3,4,7,8-HxCDD	mg/kg							
1,2,3,6,7,8-HxCDD	mg/kg							
1,2,3,7,8,9-HxCDD	mg/kg							
1,2,3,4,6,7,8-HpCDD	mg/kg							
OCDD	mg/kg							
2,3,7,8-TeCDF	mg/kg							
1,2,3,7,8-PeCDF	mg/kg							
2,3,4,7,8-PeCDF	mg/kg							
1,2,3,4,7,8-HxCDF	mg/kg							
1,2,3,6,7,8-HxCDF	mg/kg							
2,3,4,6,7,8-HxCDF	mg/kg							
1,2,3,7,8,9-HxCDF	mg/kg							
1,2,3,4,6,7,8-HpCDF	mg/kg							
1,2,3,4,7,8,9-HpCDF	mg/kg							
OCDF	mg/kg							
Total Dioxins and Furans	mg/kg							

Some Pesticides (POPs unless otherwise stated)

Aldrin	mg/kg							
α Hexachlorocyclohexane (alpha-HCH) (leave empty if total HCH results used)	mg/kg							
β Hexachlorocyclohexane (beta-HCH) (leave empty if total HCH results used)	mg/kg							
α Cis-Chlordane (alpha) OR Total Chlordane	mg/kg							
δ Hexachlorocyclohexane (delta-HCH) (leave empty if total HCH results used)	mg/kg							
Dieldrin	mg/kg							
Endrin	mg/kg							
γ Hexachlorocyclohexane (gamma-HCH) (lindane) OR Total HCH	mg/kg							
Heptachlor	mg/kg							
Hexachlorobenzene	mg/kg							
o,p'-DDT (leave empty if total DDT results used)	mg/kg							
p,p'-DDT OR Total DDT	mg/kg							
γ Trans-Chlordane (gamma) (leave empty if total Chlordane results used)	mg/kg							
Chlordecone (kepone)	mg/kg							
Pentachlorobenzene	mg/kg							
Mirex	mg/kg							
Toxaphene (camphechlor)	mg/kg							
Tin								
Tin (leave empty if Organotin and Tin excl Organotin results used)	mg/kg							
Organotin								
Dibutyltin; DIBT	mg/kg							
Tributyltin; TriBT	mg/kg							
Triphenyltin; TriPT	mg/kg							
Tetrabutyltin; TeBT	mg/kg							
Tin excluding Organotin								
Tin excl Organotin	mg/kg							

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
If any calculation cells below state "0.0000", testing has NOT been undertaken that contributes to that Hazardous Property.



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TP/WS/BH
Depth (m)
Envirolab reference

WS3	WS3	WS3	WS3	WS4	WS4				
0.20	0.60	1.30	3.60	0.90	1.10				
18/08822/27	18/08822/28	18/08822/30	18/08822/35	18/08822/39	18/08822/40				

Asbestos in Soil	Thresholds
Asbestos detected in Soil (enter Y or N)	Y

N	N				N				
---	---	--	--	--	---	--	--	--	--

If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and HP7

Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below	%
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)	≥0.1%	
<i>Please be advised, if the calculation cell is "0.0000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.</i>		

0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % results where loose fibres or micro pieces are only present. You cannot use Asbestos % results when visual identifiable pieces are present.

Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y
---	---

--	--	--	--	--	--	--	--	--	--

If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06 05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose F bres.

All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

Hazardous Property	Thresholds	Cut Off Value
Corrosive HP8	≥5%	<1%
Irritant HP4	≥10%	<1%
Irritant HP4	≥20%	<1%
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥20%	
Specific Target Organ Toxicity HP5	≥1%	
Specific Target Organ Toxicity HP5	≥10%	
Aspiration Toxicity HP5	≥10%	
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥5%	<0.1%
Acute Toxicity HP6	≥25%	<1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥2.5%	<0.1%
Acute Toxicity HP6	≥15%	<0.1%
Acute Toxicity HP6	≥55%	<1%
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.5%	<0.1%
Acute Toxicity HP6	≥3.5%	<0.1%
Acute Toxicity HP6	≥22.5%	<1%
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥1%	
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg	
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Ce I only applicable if TPH >1,000mg/kg	≥0.01%	
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5	
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2	
Toxic for Reproduction HP10	≥0.3%	
Toxic for Reproduction HP10	≥3%	
Mutagenic HP11	≥0.1%	
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg	
Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Ce I only applicable if TPH >1,000mg/kg	≥0.01%	
Mutagenic HP11	≥1%	
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg	
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg	
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg	
HP13 Sensitising	≥10%	

If cells below turn yellow and the text turns red, the samples should be classified as Hazardous Waste.									
0.00000	0.00393	0.00000	0.00000	0.00000	0.00243	0.00000	0.00000	0.00000	0.00000
0.00000	0.01449	0.00000	0.00000	0.00000	0.00314	0.00000	0.00000	0.00000	0.00000
0.00000	0.01531	0.00000	0.00000	0.00000	0.00252	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00001	0.00000	0.00000	0.00000	0.00003	0.00000	0.00000	0.00000	0.00000
0.00000	0.00258	0.00000	0.00000	0.00000	0.00115	0.00000	0.00000	0.00000	0.00000
0.00000	0.06870	0.00000	0.00010	0.00000	0.01487	0.00000	0.00000	0.00000	0.00000
0.00000	0.00247	0.00000	0.00010	0.00000	0.01382	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00519	0.00000	0.00000	0.00000	0.00138	0.00000	0.00000	0.00000	0.00000
0.00000	0.00225	0.00000	0.00000	0.00000	0.00125	0.00000	0.00000	0.00000	0.00000
0.00000	0.08405	0.00000	0.00000	0.00000	0.01751	0.00000	0.00000	0.00000	0.00000
0.00000	0.00340	0.00000	0.00000	0.00000	0.00009	0.00000	0.00000	0.00000	0.00000
0.00000	0.00214	0.00000	0.00000	0.00000	0.00115	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00004	0.00000	0.00000	0.00000	0.00012	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00559	0.00000	0.00000	0.00000	0.00136	0.00000	0.00000	0.00000	0.00000
0.00000	0.00011	0.00000	0.00000	0.00000	0.00011	0.00000	0.00000	0.00000	0.00000
0.00000	0.08398	0.00000	0.00000	0.00000	0.01733	0.00000	0.00000	0.00000	0.00000
0.00000	0.06870	0.00000	0.00010	0.00000	0.01487	0.00000	0.00000	0.00000	0.00000
0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
0.00000	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00	24.71	0.00	0.00	0.00	138.20	0.00	0.00	0.00	0.00
#DIV/0!	0.56561	#DIV/0!	#DIV/0!	#DIV/0!	0.04845	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.00	9.49	0.00	0.00	0.00	13.40	0.00	0.00	0.00	0.00
0.00	9.49	0.00	0.00	0.00	13.40	0.00	0.00	0.00	0.00
0.00000	0.06870	0.00000	0.00000	0.00000	0.01487	0.00000	0.00000	0.00000	0.00000
0.00000	0.00247	0.00000	0.00010	0.00000	0.01382	0.00000	0.00000	0.00000	0.00000
0.00000	0.00214	0.00000	0.00010	0.00000	0.00115	0.00000	0.00000	0.00000	0.00000
0.00	24.71	0.00	0.00	0.00	138.20	0.00	0.00	0.00	0.00
#DIV/0!	0.56561	#DIV/0!	#DIV/0!	#DIV/0!	0.04845	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.00000	0.00258	0.00000	0.00000	0.00000	0.00060	0.00000	0.00000	0.00000	0.00000
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.00000	0.00258	0.00000	0.00000	0.00000	0.00115	0.00000	0.00000	0.00000	0.00000

Please enter available data in the rows associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
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TP/WS/BH
Depth (m)
Envirolab reference

WS3	WS3	WS3	WS3	WS4	WS4			
0.20	0.60	1.30	3.60	0.90	1.10			
18/08822/27	18/08822/28	18/08822/30	18/08822/35	18/08822/39	18/08822/40			

Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00000	0.10975	0.00000	0.00000	0.00000	0.02546	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	0.11222	0.00000	0.00010	0.00000	0.03928	0.00000	0.00000	0.00000
Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.00000	10.99956	0.00000	0.00100	0.00000	2.68427	0.00000	0.00000	0.00000
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

United Kingdom Accreditation Service

ACCREDITATION CERTIFICATE



TESTING LABORATORY
No. 1247

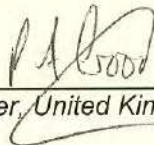
Envirolab

is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005
General Requirements for the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope as detailed in and at the locations specified in the schedule to this certificate, and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009).

The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued by the United Kingdom Accreditation Service. The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from the UKAS website www.ukas.com.

This accreditation is subject to continuing conformity with United Kingdom Accreditation Service requirements. The absence of a schedule on the UKAS website indicates that the accreditation is no longer in force.



Accreditation Manager, United Kingdom Accreditation Service

Initial Accreditation date
2 December 1992

This certificate issued on
12 November 2012

UKAS is appointed as the sole national accreditation body for the UK by The Accreditation Regulations 2009 (SI No 3155/2009) and operates under a Memorandum of Understanding (MoU) with the Department for Business, Innovation and Skills (BIS).

APPENDIX D - BACKGROUND TO GEOENVIRONMENTAL ASSESSMENT

- (i) RSK Group Generic Assessment Criteria (GAC)
- (ii) UKWIR Guidelines
- (iii) Risk Assessment Methodology

Generic assessment criteria for human health: residential scenario without home-grown produce

Background

RSK's generic assessment criteria (GAC) were initially prepared following the publication by the Environment Agency (EA) of soil guideline value (SGV) and toxicological (TOX) reports, and associated publications in 2009⁽¹⁾. RSK GAC were updated following the publication of GAC by LQM/CIEH in 2009⁽²⁾. RSK GAC are periodically revised when updated information on toxicological, land use or receptor parameters is published.

Updates to the RSK GAC

In 2014, the publication of Category 4 Screening Levels (C4SL)^(3,4), as part of the Defra-funded research project SP1010, included modifications to certain exposure assumptions documented within EA Science Report SC050221/SR3 (herein after referred to as SR3)⁽⁵⁾ used in the generation of SGVs.

C4SL were published for six substances (cadmium, arsenic, benzene, benzo(a)pyrene, chromium VI and lead) for a sandy loam soil type with 6% soil organic matter, based on a low level of toxicological concern (LLTC; see Section 2.3 of research project report SP1010⁽³⁾). Where a C4SL has been published, the RSK GAC duplicates the C4SL published values using all input parameters within the SP1010 final project report⁽³⁾ and associated appendices⁽⁶⁾, and adopts them as GAC for these six substances.

For all other substances the C4SL exposure modifications relevant for residential without home-grown produce end use have been applied to the current RSK GAC. These include alterations to daily inhalation rates for residential and commercial scenarios, reducing soil adherence factors in children (age classes 1 to 12 only) and reducing exposure frequency for dermal contact outdoors.

The RSK GAC have also been revised with updated toxicology published by LQM/CIEH in 2015⁽⁷⁾ or by the USEPA⁽¹⁴⁾, where a C4SL has not been published.

RSK GAC derivation for metals and organic compounds

Model selection

Soil assessment criteria (SAC) were calculated using the Contaminated Land Exposure Assessment (CLEA) tool v1.071, supporting EA guidance^(5,8,9) and revised exposure scenarios published for the C4SL⁽³⁾. The SAC are also termed GAC.

Conceptual model

In accordance with SR3⁽⁵⁾, the residential without home-grown produce scenario considers risks to a female child between the ages of 0 and 6 years old as the highest risk scenario. In accordance with Box 3.1 of SR3⁽⁵⁾, the pathways considered for production of the SAC in the residential without home-grown produce scenario are

- direct soil and dust ingestion in areas of soft landscaping
- dermal contact with soil and indoor dust

- inhalation of indoor and outdoor dust and vapours.

Figure 1 is a conceptual model illustrating these linkages.

In line with guidance in the EA SGV report for cadmium⁽¹⁾, the RSK GAC for cadmium has been derived based on estimates representative of lifetime exposure. Although young children are generally more likely to have higher exposures to soil contaminants, the renal toxicity of cadmium, and the derivation of the TDI_{oral} and TDI_{inh}, are based on considerations of the kidney burden accumulated over 50 years or so. It is therefore reasonable to consider exposure not just in childhood but averaged over a longer period.

With respect to volatilisation, the CLEA model assumes a simple linear partitioning of a chemical in the soil between the sorbed, dissolved and vapour phase⁽⁹⁾. The upper boundaries of this partitioning are represented by the maximum aqueous solubility and pure saturated vapour concentration of the chemical. The CLEA model estimates saturated soil concentrations where these limits are reached⁽⁹⁾. The CLEA software uses a traffic light system to identify when individual and/or combined assessment criteria exceed the lower of either the aqueous- or vapour-based soil saturation limits. Model output cells are flagged red where the saturated soil concentration has been exceeded and the contribution of the indoor and outdoor vapour pathway to total exposure is greater than 10%. In this case, further consideration of the following is required⁽⁹⁾:

- Free phase contamination may be present.
- Exposure from the vapour pathways will be over-predicted by the model, as in reality the vapour phase concentration will not increase at concentrations above saturation limits
- Where the vapour pathway contribution is greater than 90%, it is unlikely the relevant health criteria value (HCV) will be exceeded at soil concentrations at least a factor of ten higher than the relevant HCV.

Where the vapour pathway is the predominant pathway (contributes greater than 90% of exposure) or the only exposure route considered and the cell is highlighted red (SAC exceeds saturation limit), the risk based on the assumed conceptual model is likely to be negligible as the vapour risk is assumed to be tolerable at maximum possible soil concentrations. In such circumstances, the vapour pathway exposure should be considered based on the presence of free phase or non-aqueous phase liquid sources and the measured concentrations of volatile organic compounds (VOC) in the vapour phase. Screening could be considered based on setting the SAC as the modelled soil saturation limits. However, as stated within the CLEA handbook⁽⁹⁾, this is likely to not be practical in many cases because of the very low saturation limits and, in any case, is highly conservative.

It should also be noted that for mixtures of compounds, free phase may be present where soil (or groundwater) concentrations are well below saturation limits for individual compounds.

Where the vapour pathway is only one of the exposure pathways considered, an additional approach can then be utilised as detailed within Section 4.12 of the CLEA model handbook⁽⁹⁾, which explains how to calculate an effective assessment criterion manually.

SR3⁽⁵⁾ states that, as a general rule of thumb, it is recognised that estimating vapour phase concentrations from dissolved and sorbed phase contamination by petroleum hydrocarbons are at least a factor of ten higher than those likely to be measured on-site. RSK has therefore applied an empirical subsurface to indoor air correction factor of 10 into the CLEA model chemical database for all petroleum hydrocarbon fractions (including BTEX, trimethylbenzenes and the

polycyclic aromatic hydrocarbons (PAH) naphthalene, acenaphthene and acenaphthylene) to reduce this conservatism.

Input selection

The most up-to-date published chemical and toxicological data was obtained from EA Report SC050021/SR7⁽¹⁰⁾, the EA TOX⁽¹⁾ reports, the C4SL SP1010 project report and associated appendices^(3,6), the 2015 LQM/CIEH report⁽⁷⁾ or the USEPA IRIS database⁽¹⁴⁾. Where a C4SL has been published, the RSK GAC have duplicated the C4SL published values using all input parameters within the SP1010 final project report⁽³⁾ and associated appendices⁽⁶⁾, and has adopted them as GAC for these six substances. Toxicological and specific chemical parameters for 1,2,4-trimethylbenzene and methyl tertiary-butyl ether (MTBE) were obtained from the CL:AIRE Soil Generic Assessment Criteria report⁽¹¹⁾.

For TPH, aromatic hydrocarbons C₅–C₈ were not modelled, as this range comprises benzene (>EC5-EC7) and toluene (>EC7-EC8), which are modelled separately.

Physical parameters

For the residential without home-grown produce scenario, the CLEA default building is a small, two-storey terrace house with a concrete ground-bearing slab. SR3⁽⁵⁾ notes this residential building type to be the most conservative in terms of potential for vapour intrusion. The building parameters used in the production of the RSK GACs are the default CLEA v1.06 inputs presented in Table 3.3 of SR3⁽³⁾, with a dust loading factor detailed in Section 9.3 of SR3⁽⁵⁾. The parameters for a sandy loam soil type were used in line with Table 4.4 of SR3⁽⁵⁾. This includes a value of 6% for the percentage of soil organic matter (SOM) within the soil. In RSK's experience, this is rather high for many sites. To avoid undertaking site-specific risk assessments for this SOM, RSK has produced an additional set of GAC for SOM of 1% and 2.5% for all substances using the CLEA tool.

Summary of modifications to the default CLEA SR3⁽⁵⁾ input parameters for residential without home-grown produce

In summary, the RSK GAC were produced using the default input parameters for soil properties, the air dispersion model, building properties and the vapour model detailed in SR3⁽⁵⁾. Modifications to the default SR3⁽⁵⁾ exposure scenarios based on the C4SL exposure scenarios⁽³⁾ are presented in Table 2 below.

The final selected GAC are presented by pathway in Table 3 and the combined GAC in Table 4.

Figure 1: Conceptual model for CLEA residential scenario without home-grown produce

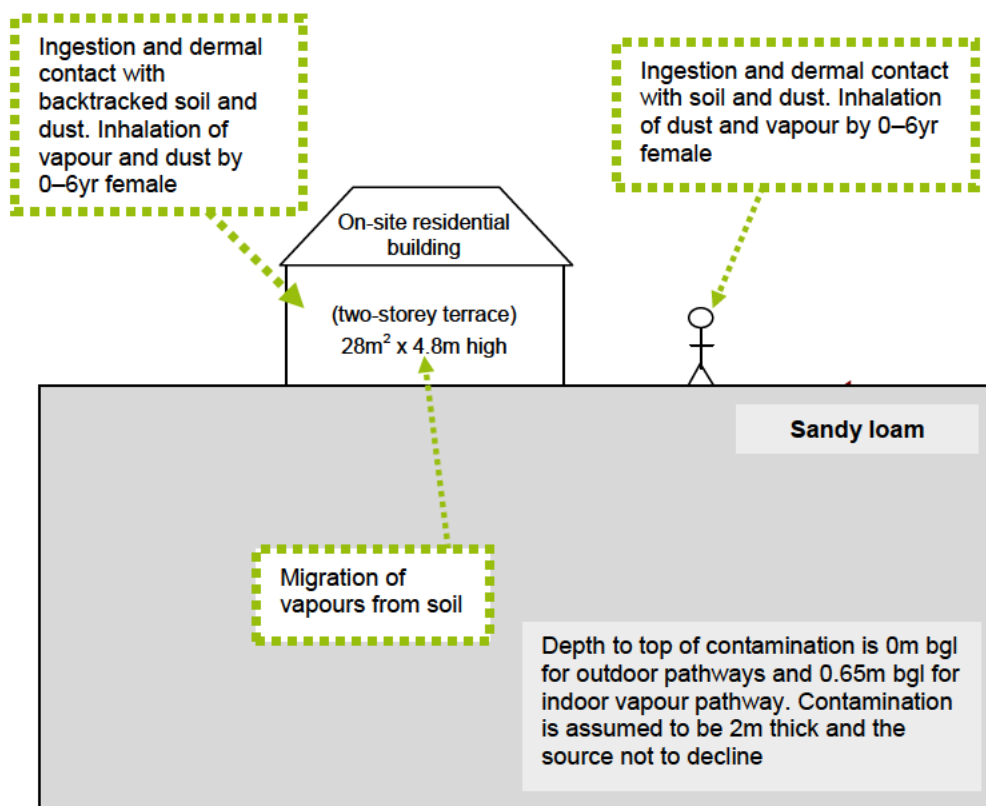


Table 1: Exposure assessment parameters for residential scenario without home-grown produce – inputs for CLEA model

Parameter	Value	Justification
Land use	Residential without home-grown produce	Chosen land use
Receptor	Female child	Key generic assumption given in Box 3.1, SR3 ⁽⁵⁾
Building	Small terraced house	Key generic assumption given in Box 3.1, SR3 ⁽⁵⁾ . Small, two-storey terraced house chosen, as it is the most conservative residential building type in terms of protection from vapor intrusion (Section 3.4.6, SR3 ⁽⁵⁾)
Soil type	Sandy loam	Most common UK soil type (Section 4.3.1, from Table 3.1, SR3 ⁽⁵⁾)
Start age class (AC)	1	Range of age classes corresponding to key generic assumption that the critical receptor is a young female child aged 0–6. From Box 3.1, SR3 ⁽⁵⁾
End AC	6	
SOM (%)	6	Representative of sandy loamy soil according to EA guidance note dated January 2009 entitled 'Changes We Have Made to the CLEA Framework Documents' ⁽¹³⁾
	1	To provide SAC for sites where SOM <6% as often observed by RSK
	2.5	
pH	7	Model default

Table 2: Residential without home-grown produce – modified receptor data

Parameter	Unit	Age class					
		1	2	3	4	5	6
Soil to skin adherence factor – (outdoor)	mg soil/cm ² skin	0.1	0.1	0.1	0.1	0.1	0.1
Justification		Table 3.5, SP1010 ⁽³⁾					
Inhalation rate	m ³ day ⁻¹	5.4	8.0	8.9	10.1	10.1	10.1
Justification		Mean value USEPA, 2011 ⁽¹²⁾ ; Table 3.2, SP1010 ⁽³⁾					
<p>Notes: For cadmium, the exposure assessment for a residential land use is based on estimates representative of lifetime exposure AC1-18. This is because the TDI_{oral} and TDI_{inh} are based on considerations of the kidney burden accumulated over 50 years. It is therefore reasonable to consider exposure not just in childhood but averaged over a longer period. See the Environment Agency Science Report SC05002/ TOX 3⁽¹⁾, Science Report SC050021/Cadmium SGV⁽¹⁾ and the project report SP1010⁽³⁾ for more information.</p>							

References

1. Environment Agency (2009), 'Science Reports SC050021 - SGV and TOX reports for: benzene, toluene, ethylbenzene, xylene, mercury, selenium, nickel, arsenic, cadmium, phenol, dioxins, furans and dioxin-like PCBs'; 'Supplementary information for the derivation of SGV for: benzene, toluene, ethylbenzene, xylene, mercury, selenium, nickel, arsenic, cadmium, phenol, dioxins, furans and dioxin-like PCBs', and 'Contaminants in soil: updated collation of toxicological data and intake values for humans: benzene, toluene, ethylbenzene, xylene, mercury, selenium, nickel, arsenic, cadmium, phenol, dioxins, furans and dioxin-like PCBs'. Available at: <https://www.gov.uk/government/publications/contaminants-in-soil-updated-collation-of-toxicological-data-and-intake-values-for-humans> and <https://www.gov.uk/government/publications/land-contamination-soil-guideline-values-sgvs> (accessed 4 February 2015)
2. Nathaniel, C. P., McCaffrey, C., Ashmore, M., Cheng, Y., Gillet, A. G., Ogden, R. C. and Scott, D. (2009), *LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment*, second edition (Nottingham: Land Quality Press).
3. Contaminated Land: Applications in Real Environment (CL:AIRE) (2014). 'Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination', Revision 2, DEFRA research project SP1010.
4. Department for Environment, Food and Rural Affairs (Defra) (2014), 'SP1010: Development of Category 4 Screening Levels for assessment of land affected by contamination – Policy Companion Document', Revision 2.
5. Environment Agency (2009), *Science Report – SC050021/SR3. Updated technical background to the CLEA model* (Bristol: Environment Agency).
6. Contaminated Land: Applications in Real Environment (CL:AIRE) (2014). 'Appendices C to H). DEFRA research project SP1010'.
7. Nathaniel, C. P., McCaffrey, C., Gillet, A. G., Ogden, R. C. and Nathaniel, J. F. (2015), *The LQM/CIEH S4ULs for Human Health Risk Assessment* (Nottingham: Land Quality Press).
8. Environment Agency (2009), *Human health toxicological assessment of contaminants in soil. Science Report – Final SC050021/SR2* (Bristol: Environment Agency).
9. Environment Agency (2009), *Science Report – SC050021/SR4 CLEA Software (version 1.05) Handbook* (Bristol: Environment Agency).
10. Environment Agency (2008), *Science Report SC050021/SR7. Compilation of Data for Priority Organic Pollutants for Derivation of Soil Guideline Values* (Bristol: Environment Agency).
11. CL:AIRE (2009), *Soil Generic Assessment Criteria for Human Health Risk Assessment* (London: CL:AIRE).
12. USEPA (2011), *Exposure factors handbook*, EPA/600/R-090/052F (Washington, DC: Office of Research and Development).
13. Environment Agency (2009), 'Changes made to the CLEA framework documents after the three-month evaluation period in 2008', released January 2009.
14. USEPA (2010). Hydrogen cyanide and cyanide salts. Integrated Risk Information Systems (IRIS) Chemical Assessment Summary. September 2010. <https://www.epa.gov/iris> (accessed 9 December 2015)

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - RESIDENTIAL WITHOUT HOME-GROWN PRODUCE



Table 3
Human Health Generic Assessment Criteria by Pathway for Residential Scenario Without Home-Grown Produce

Compound	Notes	SAC Appropriate to Pathway SOM 1% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 2.5% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 6% (mg/kg)			Soil Saturation Limit (mg/kg)
		Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Metals													
Arsenic	(a,b)	3.99E+01	5.26E+02	NR	NR	3.99E+01	5.26E+02	NR	NR	3.99E+01	5.26E+02	NR	NR
Cadmium	(a)	1.95E+02	4.88E+02	1.49E+02	NR	1.95E+02	4.88E+02	1.49E+02	NR	1.95E+02	4.88E+02	1.49E+02	NR
Chromium (III) - trivalent	(c)	1.98E+04	9.07E+02	NR	NR	1.98E+04	9.07E+02	NR	NR	1.98E+04	9.07E+02	NR	NR
Chromium (VI) - hexavalent	(a,d)	5.91E+01	2.06E+01	NR	NR	5.91E+01	2.06E+01	NR	NR	5.91E+01	2.06E+01	NR	NR
Copper		1.08E+04	1.41E+04	7.13E+03	NR	1.08E+04	1.41E+04	7.13E+03	NR	1.08E+04	1.41E+04	7.13E+03	NR
Lead	(a)	3.14E+02	NR	NR	NR	3.14E+02	NR	NR	NR	3.14E+02	NR	NR	NR
Elemental Mercury (Hg ⁰)	(d)	NR	2.41E-01	NR	4.31E+00	NR	5.74E-01	NR	1.07E+01	NR	1.25E+00	NR	2.58E+01
Inorganic Mercury (Hg ²⁺)		5.71E+01	3.63E+03	5.62E+01	NR	5.71E+01	3.63E+03	5.62E+01	NR	5.71E+01	3.63E+03	5.62E+01	NR
Methyl Mercury (Hg ⁴⁺)		1.80E+01	1.87E+01	9.16E+00	7.33E+01	1.80E+01	3.62E+01	1.20E+01	1.42E+02	1.80E+01	7.68E+01	1.46E+01	3.04E+02
Nickel	(d)	1.88E+02	1.81E+02	NR	NR	1.88E+02	1.81E+02	NR	NR	1.88E+02	1.81E+02	NR	NR
Selenium	(b)	4.31E+02	NR	NR	NR	4.31E+02	NR	NR	NR	4.31E+02	NR	NR	NR
Zinc	(b)	4.05E+04	3.63E+07	NR	NR	4.05E+04	3.63E+07	NR	NR	4.05E+04	3.63E+07	NR	NR
Cyanide (free)		4.03E+01	1.37E+04	4.02E+01	NR	4.03E+01	1.37E+04	4.02E+01	NR	4.03E+01	1.37E+04	4.02E+01	NR
Volatile Organic Compounds													
Benzene	(a)	7.36E+01	9.01E-01	8.90E-01	1.22E+03	7.36E+01	1.68E+00	1.64E+00	2.26E+03	7.36E+01	3.48E+00	3.33E+00	4.71E+03
Toluene		2.87E+04	9.08E+02	8.80E+02	8.69E+02	2.87E+04	2.00E+03	1.87E+03	1.92E+03	2.87E+04	4.55E+03	3.93E+03	4.36E+03
Ethylbenzene		1.29E+04	8.34E+01	8.29E+01	5.18E+02	1.29E+04	1.96E+02	1.93E+02	1.22E+03	1.29E+04	4.58E+02	4.42E+02	2.84E+03
Xylene - m		2.32E+04	8.25E+01	8.22E+01	6.25E+02	2.32E+04	1.95E+02	1.93E+02	1.47E+03	2.32E+04	4.56E+02	4.47E+02	3.46E+03
Xylene - o		2.32E+04	8.87E+01	8.83E+01	4.78E+02	2.32E+04	2.08E+02	2.06E+02	1.12E+03	2.32E+04	4.86E+02	4.76E+02	2.62E+03
Xylene - p		2.32E+04	7.93E+01	7.90E+01	5.76E+02	2.32E+04	1.86E+02	1.85E+02	1.35E+03	2.32E+04	4.36E+02	4.28E+02	3.17E+03
Total xylene		2.32E+04	7.93E+01	7.90E+01	6.25E+02	2.32E+04	1.86E+02	1.85E+02	1.47E+03	2.32E+04	4.36E+02	4.28E+02	3.46E+03
Methyl tertiary-Butyl ether (MTBE)		3.87E+04	1.04E+02	1.04E+02	2.04E+04	3.87E+04	1.69E+02	1.69E+02	3.31E+04	3.87E+04	3.21E+02	3.19E+02	6.27E+04
Trichloroethene		6.45E+01	1.72E-02	1.72E-02	1.54E+03	6.45E+01	3.59E-02	3.59E-02	3.22E+03	6.45E+01	7.98E-02	7.97E-02	7.14E+03
Tetrachloroethene		7.13E+02	1.79E-01	1.79E-01	4.24E+02	7.13E+02	4.02E-01	4.02E-01	9.51E+02	7.13E+02	9.21E-01	9.20E-01	2.18E+03
1,1,1-Trichloroethane		7.74E+04	9.01E+00	9.01E+00	1.43E+03	7.74E+04	1.84E+01	1.84E+01	2.92E+03	7.74E+04	4.04E+01	4.04E+01	6.39E+03
1,1,1,2-Tetrachloroethane		7.34E+02	1.54E+00	1.53E+00	2.60E+03	7.34E+02	3.56E+00	3.55E+00	6.02E+03	7.34E+02	8.29E+00	8.20E+00	1.40E+04
1,1,2,2-Tetrachloroethane		7.34E+02	3.92E+00	3.90E+00	2.67E+03	7.34E+02	8.04E+00	7.95E+00	5.46E+03	7.34E+02	1.76E+01	1.72E+01	1.20E+04
Carbon Tetrachloride		5.15E+02	2.58E-02	2.58E-02	1.52E+03	5.15E+02	5.65E-02	5.64E-02	3.32E+03	5.15E+02	1.28E-01	1.28E-01	7.54E+03
1,2-Dichloroethane		1.55E+01	9.20E-03	9.20E-03	3.41E+03	1.55E+01	1.33E-02	1.33E-02	4.91E+03	1.55E+01	2.28E-02	2.27E-02	8.43E+03
Vinyl Chloride		1.81E+00	7.73E-04	7.73E-04	1.36E+03	1.81E+00	1.00E-03	9.99E-04	1.76E+03	1.81E+00	1.53E-03	1.53E-03	2.69E+03
1,2,4-Trimethylbenzene		NR	5.58E+00	NR	4.74E+02	NR	1.29E+01	NR	1.16E+03	NR	2.69E+01	NR	2.76E+03
1,3,5-Trimethylbenzene	(e)	NR	NR	NR	2.30E+02	NR	NR	NR	5.52E+02	NR	NR	NR	1.30E+03
Semi-Volatile Organic Compounds													
Acenaphthene		7.64E+03	4.86E+04	6.60E+03	5.70E+01	7.64E+03	1.18E+05	7.17E+03	1.41E+02	7.64E+03	2.68E+05	7.43E+03	3.36E+02
Acenaphthylene		7.65E+03	4.59E+04	6.55E+03	8.61E+01	7.65E+03	1.11E+05	7.15E+03	2.12E+02	7.65E+03	2.53E+05	7.42E+03	5.06E+02
Anthracene		3.82E+04	1.53E+05	3.06E+04	1.17E+00	3.82E+04	3.77E+05	3.47E+04	2.91E+00	3.82E+04	8.76E+05	3.66E+04	6.96E+00
Benzo(a)anthracene		1.98E+01	2.47E+01	1.10E+01	1.71E+00	1.98E+01	4.37E+01	1.36E+01	4.28E+00	1.98E+01	6.26E+01	1.50E+01	1.03E+01
Benzo(a)pyrene	(a)	5.34E+00	3.51E+01	NR	9.11E-01	5.34E+00	3.77E+01	NR	2.28E+00	5.34E+00	3.89E+01	NR	5.46E+00
Benzo(b)fluoranthene		4.97E+00	1.93E+01	3.95E+00	1.22E+00	4.97E+00	2.13E+01	4.03E+00	3.04E+00	4.97E+00	2.22E+01	4.06E+00	7.29E+00
Benzo(g,h,i)perylene		4.38E+02	1.87E+03	3.55E+02	1.54E-02	4.38E+02	1.94E+03	3.58E+02	3.85E-02	4.38E+02	1.97E+03	3.59E+02	9.23E-02
Benzo(k)fluoranthene		1.31E+02	5.41E+02	1.06E+02	6.87E-01	1.31E+02	5.76E+02	1.07E+02	1.72E+00	1.31E+02	5.91E+02	1.07E+02	4.12E+00
Chrysene		3.95E+01	1.19E+02	2.97E+01	4.40E-01	3.95E+01	1.49E+02	3.12E+01	1.10E+00	3.95E+01	1.66E+02	3.19E+01	2.64E+00
Dibenzo(a,h)anthracene		3.95E-01	1.45E+00	3.10E-01	3.93E-03	3.95E-01	1.64E+00	3.18E-01	9.82E-03	3.95E-01	1.74E+00	3.22E-01	2.36E-02
Fluoranthene		1.59E+03	3.83E+04	1.53E+03	1.89E+01	1.59E+03	8.87E+04	1.56E+03	4.73E+01	1.59E+03	1.83E+05	1.58E+03	1.13E+02
Fluorene		5.09E+03	6.20E+03	2.80E+03	3.09E+01	5.09E+03	1.53E+04	3.82E+03	7.65E+01	5.09E+03	3.62E+04	4.47E+03	1.83E+02

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - RESIDENTIAL WITHOUT HOME-GROWN PRODUCE



Table 3
Human Health Generic Assessment Criteria by Pathway for Residential Scenario Without Home-Grown Produce

Compound	Notes	SAC Appropriate to Pathway SOM 1% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 2.5% (mg/kg)			Soil Saturation Limit (mg/kg)	SAC Appropriate to Pathway SOM 6% (mg/kg)			Soil Saturation Limit (mg/kg)
		Oral	Inhalation	Combined		Oral	Inhalation	Combined		Oral	Inhalation	Combined	
Naphthalene		2.50E+03	2.33E+01	2.31E+01	7.64E+01	2.50E+03	5.58E+01	5.46E+01	1.83E+02	2.50E+03	1.31E+02	1.25E+02	4.32E+02
Phenanthrene		1.58E+03	7.17E+03	1.30E+03	3.60E+01	1.58E+03	1.76E+04	1.45E+03	8.96E+01	1.58E+03	4.07E+04	1.52E+03	2.14E+02
Pyrene		3.82E+03	8.79E+04	3.66E+03	2.20E+00	3.82E+03	2.04E+05	3.75E+03	5.49E+00	3.82E+03	4.23E+05	3.79E+03	1.32E+01
Phenol		6.48E+04	4.58E+02	4.55E+02	2.42E+04	6.48E+04	6.95E+02	6.88E+02	3.81E+04	6.48E+04	1.19E+03	1.17E+03	7.03E+04
Total Petroleum Hydrocarbons													
Aliphatic hydrocarbons EC ₅ -EC ₆		3.23E+05	4.24E+01	4.24E+01	3.04E+02	3.23E+05	7.79E+01	7.79E+01	5.58E+02	3.23E+05	1.61E+02	1.61E+02	1.15E+03
Aliphatic hydrocarbons >EC ₅ -EC ₈		3.23E+05	1.04E+02	1.04E+02	1.44E+02	3.23E+05	2.31E+02	2.31E+02	3.22E+02	3.23E+05	5.29E+02	5.29E+02	7.36E+02
Aliphatic hydrocarbons >EC ₈ -EC ₁₀		6.45E+03	2.68E+01	2.68E+01	7.77E+01	6.45E+03	6.55E+01	6.53E+01	1.90E+02	6.45E+03	1.56E+02	1.55E+02	4.51E+02
Aliphatic hydrocarbons >EC ₁₀ -EC ₁₂		6.45E+03	1.33E+02	1.32E+02	4.75E+01	6.45E+03	3.31E+02	3.27E+02	1.18E+02	6.45E+03	7.93E+02	7.67E+02	2.83E+02
Aliphatic hydrocarbons >EC ₁₂ -EC ₁₆		6.45E+03	1.11E+03	1.06E+03	2.37E+01	6.45E+03	2.78E+03	2.42E+03	5.91E+01	6.45E+03	6.67E+03	4.37E+03	1.42E+02
Aliphatic hydrocarbons >EC ₁₆ -EC ₃₅	(b)	6.50E+04	NR	NR	8.48E+00	9.25E+04	NR	NR	2.12E+01	1.11E+05	NR	NR	5.09E+01
Aliphatic hydrocarbons >EC ₃₅ -EC ₄₄	(b)	6.50E+04	NR	NR	8.48E+00	9.25E+04	NR	NR	2.12E+01	1.11E+05	NR	NR	5.09E+01
Aromatic hydrocarbons >EC ₈ -EC ₁₀		2.58E+03	4.74E+01	4.72E+01	6.13E+02	2.58E+03	1.16E+02	1.15E+02	1.50E+03	2.58E+03	2.77E+02	2.69E+02	3.58E+03
Aromatic hydrocarbons >EC ₁₀ -EC ₁₂		2.58E+03	2.58E+02	2.52E+02	3.64E+02	2.58E+03	6.39E+02	5.94E+02	8.99E+02	2.58E+03	1.52E+03	1.24E+03	2.15E+03
Aromatic hydrocarbons >EC ₁₂ -EC ₁₆		2.58E+03	2.85E+03	1.80E+03	1.69E+02	2.58E+03	7.07E+03	2.30E+03	4.19E+02	2.58E+03	1.68E+04	2.48E+03	1.00E+03
Aromatic hydrocarbons >EC ₁₆ -EC ₂₁	(b)	1.86E+03	NR	NR	5.37E+01	1.90E+03	NR	NR	1.34E+02	1.92E+03	NR	NR	3.21E+02
Aromatic hydrocarbons >EC ₂₁ -EC ₃₅	(b)	1.93E+03	NR	NR	4.83E+00	1.93E+03	NR	NR	1.21E+01	1.93E+03	NR	NR	2.90E+01
Aromatic hydrocarbons >EC ₃₅ -EC ₄₄	(b)	1.93E+03	NR	NR	4.83E+00	1.93E+03	NR	NR	1.21E+01	1.93E+03	NR	NR	2.90E+01

Notes:

EC - equivalent carbon. GrAC - groundwater assessment criteria. SAC - soil assessment criteria.

The CLEA model output is colour coded depending upon whether the soil saturation limit has been exceeded.

- Calculated SAC exceeds soil saturation limit and may significantly affect the interpretation of any exceedances as the contribution of the indoor and outdoor vapour pathway to total exposure is >10%.
- Calculated SAC exceeds soil saturation limit but the exceedance will not affect the SAC significantly as the contribution of the indoor and outdoor vapour pathway to total exposure is <10%.
- Calculated SAC does not exceed the soil saturation limit.

The SAC for organic compounds are dependant upon soil organic matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58. 1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.

SAC for TPH fractions, PAHs naphthalene, acenaphthene and acenaphthylene, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway (Section 10.1.1, SR3)

- (a) SAC for arsenic, benzene, benzo(a)pyrene, cadmium, chromium VI and lead are derived using the C4SL toxicology data.
- (b) SAC for selenium should not include the inhalation pathway as no expert group HCV has been derived; aliphatic and aromatic hydrocarbons >EC16 should not include inhalation pathway due to their non-volatile nature and inhalation exposure being minimal (oral, dermal and inhalation exposure is compared to the oral HCV); arsenic should only be based on oral contribution (rather than combined) owing to the relative small contribution from inhalation in accordance with the SGV report. The Oral SAC should be adopted for zinc and benzo(a)pyrene.
- (c) SAC for CrIII should be based on the lower of the oral and inhalation SAC (see LQM/CIEH 2015 Section 6.8)
- (d) SAC for elemental mercury, chromium VI and nickel should be based on the inhalation pathway only.
- (e) SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4 trimethylbenzene may be used.

GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - RESIDENTIAL WITHOUT HOME-GROWN PRODUCE



Table 4
Human health generic assessment criteria for residential without home-grown produce

Compound	SAC for Soil SOM 1% (mg/kg)	SAC for Soil SOM 2.5% (mg/kg)	SAC for Soil SOM 6% (mg/kg)
Metals			
Arsenic	40	40	40
Cadmium	149	149	149
Chromium (III) - trivalent	910	910	910
Chromium (VI) - hexavalent	21	21	21
Copper	7,100	7,100	7,100
Lead	310	310	310
Elemental Mercury (Hg ⁰)	0.2	0.6	1.2
Inorganic Mercury (Hg ²⁺)	56	56	56
Methyl Mercury (Hg ⁴⁺)	9	12	15
Nickel	180	180	180
Selenium	430	430	430
Zinc	40,000	40,000	40,000
Cyanide (free)	40	40	40
Volatile Organic Compounds			
Benzene	0.9	1.6	3.3
Toluene	900 (869)	1,900	3,900
Ethylbenzene	80	190	440
Xylene - m	80	190	450
Xylene - o	90	210	480
Xylene - p	80	180	430
Total xylene	80	180	430
Methyl tertiary-Butyl ether (MTBE)	100	170	320
Trichloroethene	0.02	0.04	0.08
Tetrachloroethene	0.2	0.4	0.9
1,1,1-Trichloroethane	9.0	18.4	40.4
1,1,1,2-Tetrachloroethane	1.5	3.5	8.2
1,1,2,2-Tetrachloroethane	3.9	8.0	17.2
Carbon Tetrachloride	0.026	0.056	0.128
1,2-Dichloroethane	0.009	0.013	0.023
Vinyl Chloride	0.0008	0.0010	0.0015
1,2,4-Trimethylbenzene	5.6	12.9	26.9
1,3,5-Trimethylbenzene	NR	NR	NR
Semi-Volatile Organic Compounds			
Acenaphthene	6,600 (57)	7,200	7,400
Acenaphthylene	6,600 (86)	7,200	7,400
Anthracene	31,000 (1.17)	35,000	37,000
Benzo(a)anthracene	11.0	13.6	15.0
Benzo(a)pyrene	5.3	5.3	5.3
Benzo(b)fluoranthene	4.0	4.0	4.1
Benzo(g,h,i)perylene	355	358	359
Benzo(k)fluoranthene	106	107	107
Chrysene	30	31	32
Dibenzo(a,h)anthracene	0.31	0.32	0.32
Fluoranthene	1,500	1,600	1,600
Fluorene	2,800 (31)	3,800 (77)	4,500 (183)
Indeno(1,2,3-cd)pyrene	45	46	46
Naphthalene	23	55	125
Phenanthrene	1,300 (36)	1,450	1,520
Pyrene	3,700	3,800	3,800
Phenol	440*	688	1,170
Total Petroleum Hydrocarbons			
Aliphatic hydrocarbons EC ₅ -EC ₆	42	78	161
Aliphatic hydrocarbons >EC ₆ -EC ₈	100	230	530
Aliphatic hydrocarbons >EC ₈ -EC ₁₀	27	65	155
Aliphatic hydrocarbons >EC ₁₀ -EC ₁₂	130 (48)	330 (118)	770 (283)
Aliphatic hydrocarbons >EC ₁₂ -EC ₁₆	1,100 (24)	2,400 (59)	4,400 (142)
Aliphatic hydrocarbons >EC ₁₆ -EC ₃₅	65,000 (8)	92,000 (21)	111,000
Aliphatic hydrocarbons >EC ₃₅ -EC ₄₄	65,000 (8)	92,000 (21)	111,000
Aromatic hydrocarbons >EC ₈ -EC ₁₀	47	115	269
Aromatic hydrocarbons >EC ₁₀ -EC ₁₂	300	600	1,200
Aromatic hydrocarbons >EC ₁₂ -EC ₁₆	1,800 (169)	2,300 (419)	2,500
Aromatic hydrocarbons >EC ₁₆ -EC ₂₁	1,900	1,900	1,900
Aromatic hydrocarbons >EC ₂₁ -EC ₃₅	1,900	1,900	1,900
Aromatic hydrocarbons >EC ₃₅ -EC ₄₄	1,900	1,900	1,900
Minerals			
Asbestos	No asbestos detected with ID or <0.001% dry weight ¹		
Notes:			
* Generic assessment criteria not calculated owing to low volatility of substance and therefore no pathway, or an absence of toxicological data.			
NR - SAC for 1,3,5-trimethylbenzene is not recorded owing to the lack of toxicological data, SAC for 1,2,4 trimethylbenzene may be used			
EC - equivalent carbon. SAC - soil assessment criteria.			
¹ LOD for weight of asbestos per unit weight of soil calculated on a dry weight basis using PLM, handpicking and gravimetry.			
The SAC for organic compounds are dependent on Soil Organic Matter (SOM) (%) content. To obtain SOM from total organic carbon (TOC) (%) divide by 0.58. 1% SOM is 0.58% TOC. DL Rowell Soil Science: Methods and Applications, Longmans, 1994.			
SAC for TPH fractions, PAHs naphthalene, acenaphthene and acenaphthylene, BTEX and trimethylbenzene compounds were produced using an attenuation factor for the indoor air inhalation pathway of 10 to reduce conservatism associated with the vapour inhalation pathway, section 10.1.1, SR3.			
(VALUE IN BRACKETS)			
RSK has adopted an approach for petroleum hydrocarbons in accordance with LQM/CIEH whereby the concentration modelled for each petroleum hydrocarbon fraction has been tabulated as the 95th percentile corresponding scenario of vapour saturation minus ground moisture.			

GENERIC ASSESSMENT CRITERIA FOR CONTROLLED WATERS

Protection of the water environment

The water environment in the United Kingdom is protected under a number of regulatory regimes. The relevant environmental regulator is consulted where there may be a risk that pollution of 'controlled waters' may occur or may have occurred in the past.

The term 'controlled waters' refers to coastal waters, inland freshwaters and groundwater. The EU Water Framework Directive (WFD) (2000/60/EC) is implemented via domestic regulations and guidance, covering aspects of groundwater and surface water protection as well as drinking water supply policy. Domestic legislation and guidance will vary across the United Kingdom. Therefore, the relevant legislation for England, Wales, Northern Ireland and Scotland should be reviewed, alongside guidance provided by the Environment Agency (EA), Natural Resource Wales (NRW), the Scottish Environmental Protection Agency (SEPA) or the Northern Ireland Environment Agency (NIEA), as appropriate.

The main objectives of the protection and remediation of groundwater under threat from land contamination are set out within "The Environment Agency's approach to groundwater protection", version 1.0 (March 2017)⁽¹⁾ and the associated guidance "Land contamination groundwater compliance points: quantitative risk assessments (March 2017)^(1a) that have replaced the previous guidance document "Groundwater Principles and Practice (GP3)". When assessing risks to groundwater, the following need to be considered:

- Where pollutants have not yet entered groundwater, all necessary and reasonable measures must be taken to:
 - **prevent** the input of **hazardous** substances into groundwater (see description of hazardous substances below)
 - **limit** the entry of other (non-hazardous) pollutants into groundwater to avoid pollution, deterioration in the status of groundwater bodies and to prevent sustained, upward trends in pollutant concentrations in groundwater.
- Where pollutants have already entered groundwater, the priority is to take all necessary and reasonable measures to:
 - **minimise** further entry of "contaminants" where there is a defined source
 - **limit the pollution** of groundwater or any effect on the status of the groundwater body from the future expansion of the 'plume', if necessary, by actively reducing its extent.

Within the context of groundwater risk assessments on sites affected by land contamination, "reasonable" means feasible without involving disproportionate costs. What costs are "disproportionate" depends on site-specific circumstances, which may include:

- Considerations of technical feasibility such as identified by the remedial options appraisal, this may be due to the distribution or nature of the contamination and the available remedial methods to treat the identified contamination;
- Sustainability considerations.

DEFINITIONS AND SUBSTANCE CLASSIFICATIONS

Risks to surface waters:

When assessing risks to surface waters, the following list of definitions should be understood:

Priority substances (PS) are harmful substances originally identified under the Water Framework Directive (WFD) 2000/60/EC as substances ‘presenting a significant risk to or via the aquatic environment’ at a European level. Member States are required to incorporate the identified **PS** into their country-wide monitoring programmes. There are currently 33 **PS** defined within the Priority Substances Directive (2013/39/EU; Annex 1), with a further 12 additional substances due to come into force from 22 December 2018. Directive 2013/39/EU has been transposed into domestic legislation for England and Wales by The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

Under the umbrella of **PS**, there is a sub-set of substances identified as being “hazardous”, and these are referred to as **Priority hazardous substances (PHS)**. The list of **PHS** is defined at EU level within the Priority Substances Directive (2013/39/EU). The WFD defines hazardous substances as ‘substances (or groups of substances) that are toxic, persistent and liable to bio-accumulate, and other substances or groups of substances that give rise to an equivalent level of concern.’ There are currently 15 **PHS**, with a further 6 additional substances due to come into force from 22 December 2018.

There is also another group of substances defined at EU level and which are referred to as **other pollutants (OP)** in Directive 2013/39/EU. These are additional substances which although not **priority substances**, have EQS which are identical to those laid down in the legislation which applied prior to 13 January 2009 (Directive 2008/105/EU). The **OP** are listed along with the **priority substance (PS)** within the Priority Substances Directive (2013/39/EU), and their associated EQS are also listed therein. There are 6 **OP** defined within the Priority Substances Directive (2013/39/EU).

In addition to the EU level substances, there are also a group of pollutants defined at a Member State level, referred to as **Specific pollutants (SP)**. These substances are pollutants which are released in significant quantities into water bodies in each of the individual European Member States. Under the WFD, Member States are required to set their own EQS for these substances. An indicative list of **SP** is given in Annex VIII of the WFD. Many of the substances categorised as **SP** in the UK were formerly List 2 substances under the old Groundwater Directive (80/68/EEC). The **SP** are defined within Part 2 (Table 1) of The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

Risks to groundwater:

When assessing risks to groundwater, the following definitions should be understood:

Under the requirements of the Groundwater Daughter Directive (2006/118/EU), the UK has published a list of substances it considers to be **hazardous substances** with respect to groundwater. In their advisory capacity to the government, this list has been derived by the UK Joint Agencies Groundwater Directive Advisory Group (JAGDAG), of which the Environment Agency is a member. The JAGDAG list of **hazardous substances** was published in January 2017 and the Environment Agency will use the updated list of hazardous substances from this date for all new activities that may lead to the discharge of hazardous substances to groundwater. The list is extensive and can be found in full at:

<https://www.wfduk.org/stakeholders/jagdag>

Selecting the appropriate assessment criteria

When assessing the risks to controlled waters, various assessment criteria apply, depending on the nature of the assessment and the conceptual site model.

Where a surface water body is involved, then Environmental Quality Standards (EQS) are the relevant assessment criteria as they are designed to be protective of surface water ecology.

Where a public water supply or a Principal aquifer is involved, then the standards defined in The Water Supply (Water Quality) Regulations⁽²⁾ are the primary source of assessment criteria. The Private Water Supplies Regulations⁽³⁾ may also be applicable in some cases. For instances where there are no UK assessment criteria, then the World Health Organisation (WHO) drinking water guidelines⁽⁴⁾ may be used.

This appendix presents the generic assessment criteria (GAC) that RSK considers suitable for assessing risks to controlled waters for our most commonly encountered determinants. A full list of EQS for England and Wales are included in The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

The RSK GAC for controlled waters are presented in **Table 1** and **Table 2**. In line with the Environment Agency's Remedial Targets Methodology, the GAC for controlled waters are termed 'target concentrations'.

The appropriate target concentrations should be selected with consideration to:

- the site conceptual model (i.e. the receptor at potential risk);
- whether the substance is already present in groundwater at the site;
- whether or not the substance is classified as a priority hazardous substance under the Priority Substances Directive (2013/39/EC) (see above), or as a hazardous substance according to the current list of JAGDAG determinations⁽⁵⁾; and
- background concentrations in the aquifer (if applicable).

It is important to remember that the WFD and Environment Agency guidance^(1 & 1a) support a sustainable, risk-based approach be applied to groundwater contamination. Exceedance of any target concentration does not necessarily imply that an unacceptable risk exists or that remediation is inevitably required.

Target concentrations shaded in green are <u>statutory values</u>	Target concentrations shaded in orange are <u>non-statutory values</u>
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Note: Units µg/l throughout (unless otherwise stated)

Table 1: Target concentrations for controlled waters (excluding TPH CWG fractions)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Metals & other inorganics						
Hazardous substance	Specific pollutant	Arsenic	-	10 ⁽²⁾	50 ^(6a)	25 ^(6a)
Non-hazardous pollutant	Priority substance	Cadmium	0.1 ⁽⁷⁾	5 ⁽²⁾	≤0.08, 0.08, 0.09, 0.15, 0.25 ^(6b)	0.2 ^(6a)
<i>(Not determined)</i>	-	Chromium (total)	-	50 ⁽²⁾	Sum values for chromium III and VI	
<i>(None)</i>	Specific pollutant	Chromium (III)	-	Use value for total chromium	4.7 ^(6a)	-
Hazardous substance	Specific pollutant	Chromium (VI)	-		3.4 ^(6a)	0.6 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
<i>(Not determined)</i>	Specific pollutant	Copper	-	2,000 ⁽²⁾	1 bioavailable ^(6a)	3.76 dissolved, where DOC ≤1mg/l ^(6a)
						3.76µg/l + (2.677µg/l x ((DOC/2) – 0.5µg/l)) dissolved, where DOC >1mg/l ^(6a)
Hazardous substance	Priority substance	Lead	-	10 ⁽²⁾	1.2 bioavailable ^(6a)	1.3 ^(6a)
Hazardous substance	Priority hazardous substance	Mercury	0.01 ⁽⁷⁾	1 ⁽²⁾	0.07 ^(6c)	0.07 ^(6c)
Non-hazardous pollutant	Priority substance	Nickel	-	20 ⁽²⁾	4.0 bioavailable ^(6a)	8.6 ^(6a)
Non-hazardous pollutant	-	Selenium	-	10 ⁽²⁾	-	-
Non-hazardous pollutant	Specific pollutant	Zinc	-	3,000 ⁽⁸⁾	10.9 bioavailable ^(6a)	6.8 dissolved ^(6a)
<i>None</i>	Specific pollutant	Iron	-	200 ⁽²⁾	1000 ^{(6a)*1}	1000 ^{(6a)*1}
<i>None</i>	Specific pollutant	Manganese	-	50 ⁽²⁾ (0.05mg/l)	123 bioavailable ^(6a) (0.123mg/l)	-
<i>(Not determined)</i>	-	Aluminium	-	200 ⁽²⁾	-	-

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Priority hazardous substance	Tributyltin compounds (Tributyltin-cation)	0.001 ⁽⁷⁾	-	0.0002 ^(6a)	0.0002 ^(6a)
<i>(Not determined)</i>	-	Sodium	-	200,000 ⁽²⁾ (200 mg/l)	-	-
Non-hazardous pollutant	Specific pollutant	Cyanide (Hydrogen cyanide)	-	50 ⁽²⁾ (0.05 mg/l)	1 ^(6a) (0.001 mg/l)	1 ^(6a) (0.001 mg/l)
Non-hazardous pollutant	-	Total ammonia [§] (ammonium (as NH ₄ ⁺) plus ammonia (NH ₃))	-	500 ⁽²⁾ (0.5 mg/l)	300 ^(6f) (0.3 mg/l)	-
Non-hazardous pollutant	Specific pollutant	Ammonia un-ionised (NH ₃)	-	-	-	21 ^(6a) (0.021 mg/l)
Non-hazardous pollutant	Specific pollutant	Chlorine	-	-	2 ^(6a) (0.002 mg/l)	10 ^(6d) (0.01 mg/l)
<i>(Not determined)</i>	-	Chloride	-	250,000 ⁽²⁾ (250 mg/l)	-	-
<i>(Not determined)</i>	-	Sulphate	-	250,000 ⁽²⁾ (250 mg/l)	-	-
<i>(Not determined)</i>	-	Nitrate (as NO ₃)	-	50,000 ⁽²⁾ (50 mg/l)	-	-
<i>(Not determined)</i>	-	Nitrite (as NO ₂)	-	500 ⁽²⁾ (0.5 mg/l)	10 ⁽⁹⁾ (0.01 mg/l)	-

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Volatile organic compounds (VOC)						
Non-hazardous pollutant	Other pollutant	Tetrachloroethene (tetrachloroethylene; PCE)	0.1 ⁽⁷⁾	10 ⁽²⁾ sum of TCE and PCE	10 ^(6a)	10 ^(6a)
Hazardous substance	Other pollutant	Trichloroethene (trichloroethylene; TCE)	0.1 ⁽⁷⁾		10 ^(6a)	10 ^(6a)
<i>None</i>	Specific pollutant	Tetrachloroethane	-	-	140 ^(6a)	-
Hazardous substance	Other pollutant	Carbon tetrachloride (tetrachloromethane)	0.1 ⁽⁷⁾	3.0 ⁽²⁾	12 ^(6a)	12 ^(6a)
Non-hazardous pollutant	Priority substance	1,2-Dichloroethane	1.0 ⁽⁷⁾	3.0 ⁽²⁾	10 ^(6a)	10 ^(6a)
Non-hazardous pollutant	-	1,2-Dichloroethene (DCE)	-	50.0 ⁽⁴⁾	-	-
Hazardous substance	-	Vinyl chloride (chloroethene)	-	0.5 ⁽²⁾	-	-
Non-hazardous pollutant	Priority substance	Dichloromethane	-	20 ⁽⁴⁾	20 ^(6a)	20 ^(6a)
Non-hazardous pollutant	Priority substance	Trichlorobenzenes	0.01 ⁽⁷⁾	-	0.4 ^(6a)	0.4 ^(6a)
<i>(Not determined)</i>	-	Trihalomethanes	-	100 ^(2a)	-	-



Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Priority substance	Trichloromethane (Chloroform)	0.1 ⁽⁷⁾	(see "Trihalomethanes" above)	2.5 ^(6a)	2.5 ^(6a)
Non-hazardous pollutant	Priority hazardous substance	Di(2-ethylhexyl) phthalate (bis(2-ethylhexyl) phthalate, DEHP)	-	8 ⁽⁴⁾	1.3 ^(6a)	1.3 ^(6a)
<i>None</i>	Specific pollutant	Benzyl butyl phthalate	-	-	7.5 ^(6a)	0.75 ^(6e)
Hazardous substance	Priority hazardous substance	Hexachlorobutadiene	0.005 ⁽⁷⁾	0.6 ⁽⁴⁾	0.6 ^(6c)	0.6 ^(6c)
Semi-volatile organic compounds (SVOC)						
<i>(Not determined)</i>	-	Acenaphthylene (C12-C16)	-	-	5.8 ⁽¹⁰⁾	
Hazardous substance	Priority hazardous substance	Anthracene (C16-C21)	-	-	0.1 ^(6a)	0.1 ^(6a)
Non-hazardous pollutant	Priority substance	Naphthalene (C10-C12)	-	-	2 ^(6a)	2 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Hazardous substance	Priority substance	Fluoranthene (C21-C35)	-	-	0.0063 ^(6a)	0.0063 ^(6a)
Hazardous substance(s)	Priority hazardous substance(s)	Benzo(a)pyrene (C21-C35)	-	0.01 ⁽²⁾	0.00017 ^(6a)	0.00017 ^(6a)
		Benzo(b)fluoranthene (C21-C35)	-	0.1 ⁽²⁾ sum of the concentration of the four specified compounds	No EQS for these substances. B(a)P should be used as the indicator compound instead.	
		Benzo(k)fluoranthene (C21-C35)	-			
		Benzo(g,h,i)perylene (C21-C35)	-			
		Indeno(1,2,3-cd)pyrene (C21-C35)	-			
Non-hazardous pollutant	Specific pollutant	Phenol		-	7.7 ^(6a)	7.7 ^(6a)
Hazardous substance	Specific pollutant	2,4-Dichlorophenol	0.1 ⁽⁷⁾	-	4.2 ^(6a)	0.42 ^(6a)
Hazardous substance	Priority substance	Pentachloro-phenol (PCP)	0.1 ⁽⁷⁾	g ⁽⁴⁾	0.4 ^(6a)	0.4 ^(6a)



Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Petroleum hydrocarbons						
Hazardous substance	-	Total petroleum hydrocarbons	-	See Table 2 for individual (non-statutory) TPH CWG fractions with respect to drinking water receptors	See individual risk driving compounds (i.e. BTEX and PAH) for specific EQS	
Hazardous substance	Priority substance	Benzene (C5-C7)	1 ⁽⁷⁾	1 ⁽²⁾	10 ^(6a)	8 ^(6a)
Hazardous substance	Specific pollutant	Toluene (C7-C8)	4 ⁽⁷⁾	700 ⁽⁴⁾	74 ^(6a)	74 ^(6a)
Hazardous substance	-	Ethylbenzene (C8-C9)	-	300 ⁽⁴⁾	-	-
<i>(Not determined)</i>	-	Xylenes (C8-C10)	3 ⁽⁷⁾	500 ⁽⁴⁾	30 ⁽¹¹⁾	-
Non-hazardous pollutant	-	Methyl tertiary butyl ether (MTBE)	-	15 ⁽¹²⁾	-	-
Pesticides, fungicides, insecticides and herbicides						
Hazardous substance(s)	Other pollutant (Cyclodiene)	Aldrin	0.003 ⁽⁷⁾	0.03 ⁽²⁾	0.01 ^(6a) (sum of all four)	0.005 ^(6a) (sum of all four)
		Dieldrin	0.003 ⁽⁷⁾	0.03 ⁽²⁾		

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
	pesticides)	Endrin	0.003 ⁽⁷⁾	0.1 ^(2b)		
		Isodrin*2	0.003 ⁽⁷⁾	0.1 ^(2b)		
Hazardous substance	Other pollutant	DDT (total)	0.002 ⁽⁷⁾	1 ⁽⁴⁾	0.025 ^(6a)	0.025 ^(6a)
<i>(Not determined) – assume to be Hazardous Substance</i>	-	Total pesticides	-	0.5 ⁽²⁾	-	-
<i>(Not determined) - assume to be Hazardous Substance</i>	-	Other individual pesticides	-	0.1 ⁽²⁾		
Hazardous substance	Specific pollutant	Carbendazim	-	-	0.15 ^(6a)	-
Hazardous substance	Specific pollutant	Chlorothalonil	-	-	0.035 ^(6a)	-
Hazardous substance	Specific pollutant (until 22/12/18, after which it becomes a Priority substance)	Cypermethrin	-	-	0.0001 ^(6a) From 22/12/18: 8.0E-5 ^(6a)	0.0001 ^(6a) From 22/12/18: 8.0E-6 ^(6a)
Hazardous substance	Specific pollutant	Dimethoate	0.01 ⁽⁷⁾	-	0.48 ^(6a)	0.48 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
<i>(Not determined)</i>	Specific pollutant	Glyphosate	-	-	196 ^(6a)	196 ^(6a)
Hazardous substance	Specific pollutant	Linuron	-	-	0.5 ^(6a)	0.5 ^(6a)
Non-hazardous pollutant	Specific pollutant	Mecoprop	0.04 ⁽⁷⁾	-	18 ^(6a)	18 ^(6a)
Non-hazardous pollutant	Specific pollutant	Methiocarb	-	-	0.01 ^(6a)	-
Non-hazardous pollutant	Specific pollutant	Pendimethalin	-	20 ⁽⁴⁾	0.3 ^(6a)	-
Hazardous substance	Specific pollutant	Permethrin	0.001 ⁽⁷⁾	-	0.001 ^(6a)	0.0002 ^(6a)
Hazardous substance	Priority substance	Alachlor	-	20 ⁽⁴⁾	0.3 ^(6a)	0.3 ^(6a)
Hazardous substance	Priority substance	Atrazine	0.03 ⁽⁷⁾	100 ⁽⁴⁾	0.6 ^(6a)	0.6 ^(6a)
Hazardous substance	Priority substance	Diuron	-	-	0.2 ^(6a)	0.2 ^(6a)
Hazardous substance	Priority hazardous substance	Endosulphan	0.005 ⁽⁷⁾	-	0.005 ^(6a)	0.0005 ^(6a)

Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters
Non-hazardous pollutant	Priority substance	Isoproturon	-	9 ⁽⁴⁾	0.3 ^(6a)	0.3 ^(6a)
Hazardous substance	Priority substance	Simazine	0.03 ⁽⁷⁾	2 ⁽⁴⁾	1 ^(6a)	1 ^(6a)
Hazardous substance	Priority hazardous substance	Trifluralin	0.01 ⁽⁷⁾	20 ⁽⁴⁾	0.03 ^(6a)	0.03 ^(6a)
<i>(Not determined)</i>	From 22/12/18: Priority substance	Dichlorovos	-	-	From 22/12/18: 6.0E-4 ^(6a)	From 22/12/18: 6.0E-5 ^(6a)
Hazardous substance	From 22/12/18: Priority substance	Heptachlor and heptachlor epoxide	-	0.03 ⁽²⁾	From 22/12/18: 2.0E-7 ^(6a)	From 22/12/18: 1.0E-08 ^(6a)
Miscellaneous						
<i>None</i>	Specific pollutant	Triclosan (antibacterial agent)	-	-	0.1 ^(6a)	0.1 ^(6a)
Hazardous substance	From 22/12/18: Priority hazardous substance	Perfluoro-octane sulfonic acid (and its derivatives) (PFOS)	-	-	From 22/12/18: 6.5E-4 ^(6a)	From 22/12/18: 1.3E-4 ^(6a)
Hazardous substance	From 22/12/18: Priority hazardous substance	Hexabromo cyclododecane (HBCDD)	-	-	From 22/12/18: 0.0016 ^(6a)	From 22/12/18: 0.0008 ^(6a)



Substance classification		Determinant	Target concentrations (µg/l)			
Groundwater receptors ⁽⁵⁾	Surface water receptors ⁽⁶⁾		Minimum reporting value	UK drinking water standard (or best equivalent)	EQS or best equivalent	
					Freshwater	Transitional (estuaries) and coastal waters

Notes:

^{‘-’} A target concentration is not available.

[§]Please note that total ammonia (NH₄⁺ and NH₃) is equivalent to ammoniacal nitrogen in laboratory reports

^{*1} Please note that although iron is listed in the 2015 Direction as 1.000 µg/l, the EQS remains at 1mg/l in Scotland and it is assumed this is an error and should read either 1,000 or 1000µg/l.

^{*2} Please note that although Isodrin is not listed in name within the group of “Cyclodiene pesticides” in Table 1 of Schedule 3 Part 3 of the 2015 Direction⁽⁶⁾, the CAS number for Isodrin (465-73-6) is listed and therefore it is assumed that it has been missed off the named list of substances.

^{*3} Total petroleum hydrocarbons is used for consistency, but is an analytical method-defined measurement for a mixture of hydrocarbons subject to environmental analysis¹¹.

“Bioavailable” in relation to copper, zinc, nickel and manganese (but not lead) is the generic EQSbioavailable^(6a) derived from the Metal Bioavailability Assessment Tool (M-BAT) developed by the Water Framework Directive UK Technical Advisory Group (WFDTAG). Exceedance of this value should prompt a site-specific assessment using the M-BAT with pH, DOC and Ca to derive a site-specific EQS termed the PNEC_{dissolved}.
<http://www.wfduk.org/resources/rivers-lakes-metal-bioavailability-assessment-tool-m-bat>.

For zinc, if there is an exceedance of the EQSbioavailable in an initial GQRA, Tier 2 required that the EQS for zinc should also have the ambient background concentration of zinc added as well

Table 2: World Health Organization (WHO) guide values for TPH CWG fractions in drinking water⁽¹³⁾ (as referenced in CL:AIRE, 2017⁽¹¹⁾)

TPH CWG fraction	WHO guide value for drinking water ⁽¹³⁾ (µg/l)
Aliphatic fractions:	
Aliphatic EC5-EC6	15,000
Aliphatic >EC6-EC8	15,000
Aliphatic >EC8-EC10	300
Aliphatic >EC10-EC12	300
Aliphatic >EC12-EC16	300
Aliphatic >EC16-EC21	-
Aliphatic >EC21-EC35	-
Aromatic fractions:	
Aromatic EC5-EC6	10 (benzene)
Aromatic >EC6-EC8	700 (toluene)
Aromatic >EC8-EC10	300 (ethyl benzene) 500 (xylenes)
Aromatic >EC10-EC12	90
Aromatic >EC12-EC16	90
Aromatic >EC16-EC21	90
Aromatic >EC21-EC35	90
Reference: World Health Organisation (WHO), 2008. Petroleum products in drinking-water. Background document for development of WHO guidelines for drinking water quality. WHO/SDE/WSH/05.08/123. World Health Organisation, Geneva ⁽¹³⁾ .	

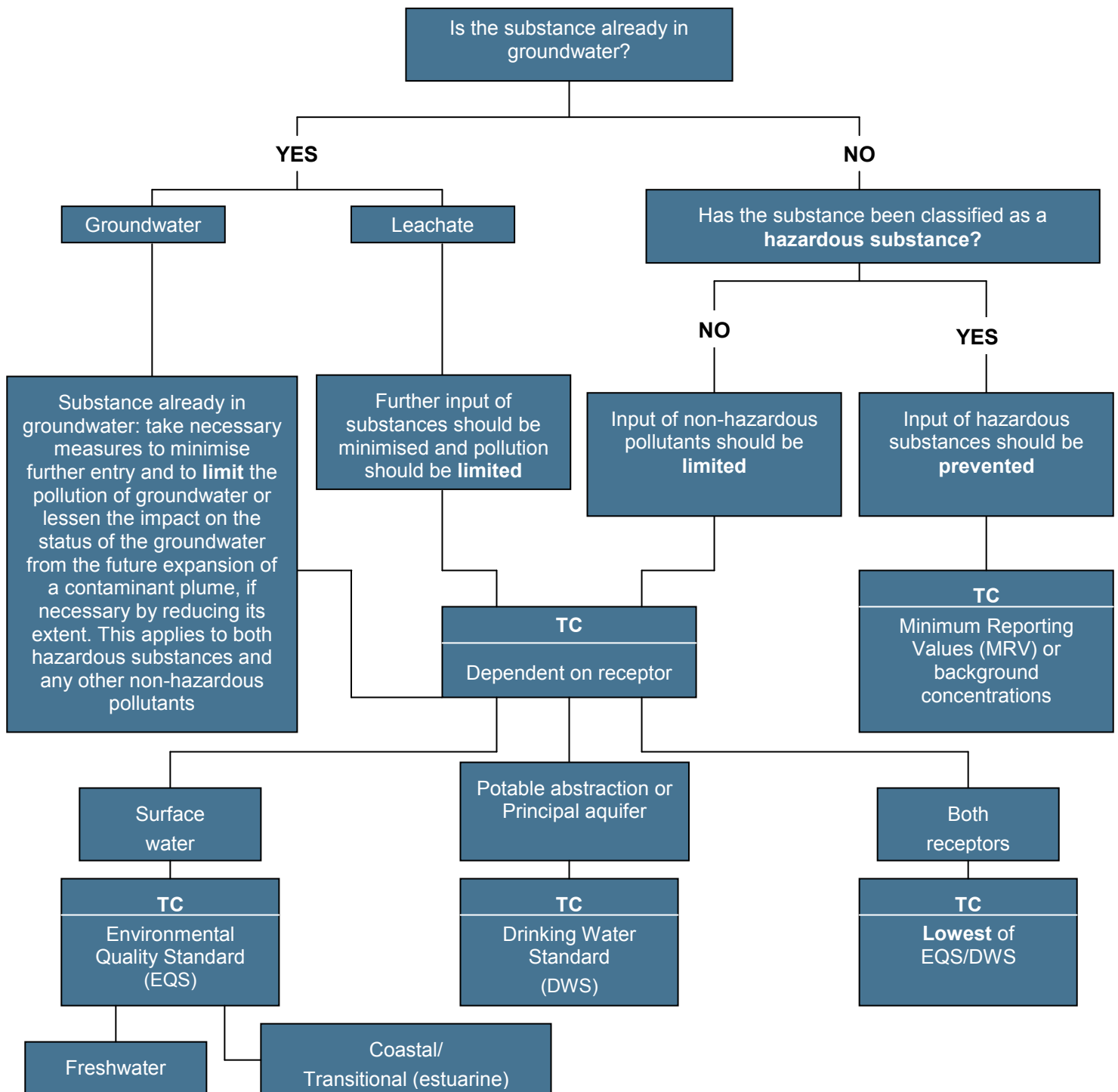
References

1. Environment Agency (2017), 'The Environment Agency's approach to groundwater protection', version 1.0, March 2017 (formerly contained within GP3) [accessed 29 March 2017].
<https://www.gov.uk/government/collections/groundwater-protection>
- 1a. Environment Agency (2017), 'Land contamination groundwater compliance points: quantitative risk assessments', March 2017 (formerly contained within GP3) [accessed 29 March 2017].
<https://www.gov.uk/government/collections/groundwater-protection>
2. The Water Supply (Water Quality) Regulations 2016 (SI 2016/619)
 - 2a. Sum of chloroform, bromoform, dibromochloromethane and bromodichloromethane
 - 2b. Standard applies to individual pesticides except aldrin, dieldrin, heptachlor and heptachlor epoxide, for which a separate standard is defined.
3. The Private Water Supplies (England) Regulations 2016. SI 2016 / 618
4. WHO (2011), *Guidelines for drinking-water quality*, 4th edn
5. JAGDAG hazard substance determinations: This list contains substances that are determined to be hazardous substances or non-hazardous pollutants for the purposes of the groundwater directive 2006/118/EC. The absence of an assessment or substance from the list means an assessment has not been done yet and is presented as 'Not yet determined'; if a substance has been assessed but does not fall into either category it is presented as 'None'. For further details on how substances are assessed, see the Joint Agencies Groundwater Directive Advisory Group (JAGDAG) 'Methodology for the determination of hazardous substances in groundwater for the purposes of the groundwater directive 2006/118/EC' which is available from the JAGDAG website. The methodology is a UK-wide framework that sets criteria for how to assess whether a substance is a hazardous substances in groundwater. The list of substances can be found at:
<https://www.wfduk.org/stakeholders/jagdag>
6. The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.
 - 6a. The EQS for these substances are based on a "long term mean" or an "annual average (AA)" EQS.
 - 6b. For cadmium and its compounds the EQS values vary depending on the hardness of the water as specified in five class categories (Class 1: < 40 mg CaCO₃/l, Class 2: 40 to < 50 mg CaCO₃/l, Class 3: 50 to < 100 mg CaCO₃/l, Class 4: 100 to < 200 mg CaCO₃/l and Class 5: ≥ 200 mg CaCO₃/l).
 - 6c. The EQS for Mercury and hexachlorobutadiene are based on a "maximum acceptable concentration (MAC)" EQS in absence of an "annual average (AA)" EQS.
 - 6d. The EQS for chlorine in saltwater is based on the 95th percentile concentration of total residual oxidant, which refers to the sum of all oxidising agents existing in water, expressed as available chlorine.
 - 6e. The recommended saltwater standard is derived using a safety factor of 100. Where the standard is failed, it is recommended that supporting evidence of ecological damage should be obtained before committing to expensive action.
 - 6f. EQS for total ammonia is as per Schedule 3, Part 1, Table 7 of of the above directions. EQS applies to river types 1, 2 and 4 and 6 (namely upland and low alkalinity). The EQS for a lowland and high alkalinity rivers (types 3, 5 and 7) is 600µg/l (0.6mg/l).

Additional information on the Metal Bioavailability Assessment Tool (M-BAT) is available at <http://www.wfduk.org/resources/rivers-lakes-metal-bioavailability-assessment-tool-m-bat>

7. Minimum reporting values listed at <https://www.gov.uk/government/publications/values-for-groundwater-risk-assessments/hazardous-substances-to-groundwater-minimum-reporting-values> (updated 13 January 2017; accessed 29 March 2017). Note target concentration for xylenes is 3 µg/l each for o-xylene and m/p xylene as it may not be possible to separate m- and p-xylene; 135 tcb, 124 tcb, 123 tcb each to 0.01 µg/l)
8. The Surface Waters (Abstraction for Drinking Water) (Classification) Regulations 1996 (as amended). SI 1996 / 3001
9. Council Directive on the Quality of Fresh Waters Needing Protection or Improvement in Order to Support Fish Life (Freshwater Fish Directive) (78/659/EEC)
10. WRc plc (2002), R&D Technical Report P45.
11. CL:AIRE, 2017. Petroleum Hydrocarbons in Groundwater: Guidance on assessing petroleum hydrocarbons using existing hydrogeological risk assessment methodologies. V1.1.
12. Drinking Water Inspectorate (London, UK). Environmental Information Request on MTBE in drinking water. Ref. DWI 1/10/18; dated 28 November 2006. Value is based on the odour threshold for MTBE, which is lower than a health-based guideline value
13. World Health Organisation (WHO), 2008. Petroleum products in drinking-water. Background document for development of WHO guidelines for drinking water quality. WHO/SDE/WSH/05.08/123. World Health Organisation, Geneva. [accessed 29 March 2017] http://www.who.int/water_sanitation_health/dwq/chemicals/petroleumproducts_2add_june2008.pdf

FLOW CHART TO ASSIST WITH SELECTION OF TARGET CONCENTRATIONS



TC = Target concentration

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 TC.

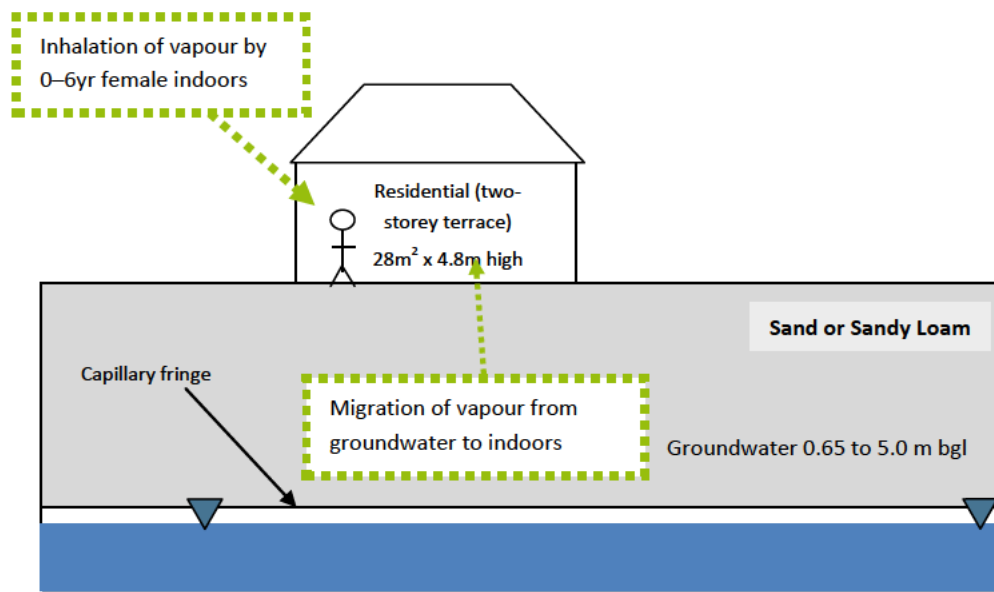
When directly assessing a receptor, e.g., a river, the appropriate TC should be selected.

Generic groundwater assessment criteria (GrAC) for human health: residential scenario (child receptor)

Background

Volatile organic compounds (VOC) in groundwater have the potential to pose risks to residential site end users via indoor and outdoor inhalation exposure. Due to significant dilution effects in outdoor air, inhalation risk is dominated by indoor exposure. The GrAC conceptual site model (CSM) is shown in Figure 1 (not to scale).

Figure 1: GrAC conceptual model for a generic residential scenario



RSK GrAC derivation

Model selection

The Society for Brownfield Risk Assessment (SoBRA) published a set of generic assessment criteria for assessing vapour risk to human health from volatile contaminants in groundwater in February 2017⁽¹⁾. The criteria were developed for a list of common VOC using the Environment Agency Contaminated Land Exposure Assessment (CLEA) tool⁽²⁾ based on a sand soil type and a groundwater depth of 0.65 m below foundation base level. The CLEA tool is not designed to directly model VOC in groundwater and the SoBRA generic criteria are recognised as being conservative since calculations in CLEA are based on three-phase partitioning in the unsaturated zone between soil, soil vapour and soil moisture, with the latter taken by SoBRA as a groundwater equivalent. This method does not take account of the presence of a semi-saturated capillary fringe above the water table, which will serve to provide some mitigation to vertical soil vapour migration.

RSK GrAC are calculated using the RBCA Toolkit for Chemical Releases (version 2.6) with the Johnson and Ettinger model, based on the CSM in Figure 1 for a small terrace house (as defined in SR3⁽³⁾, Table 4.21) and which allows consideration of a capillary fringe. The capillary fringe is

the subsurface layer in which groundwater seeps up from a water table by capillary action to partially fill soil pores.

The RBCA model was used in preference to the Environment Agency Contaminated Land Exposure Assessment (CLEA) tool⁽²⁾, as the CLEA tool is not designed to directly model VOC in groundwater and does not take account of the presence of a capillary zone.

Conceptual model

In accordance with SR3⁽³⁾, the residential scenario considers risks to a female child between the ages of 0 and 6 years old as the highest risk scenario.

The pollutant linkage considered in production of the GrAC is the volatilisation of compounds from groundwater and subsequent vapour inhalation by residents while indoors. Figure 1 illustrates this linkage. Although the outdoor air inhalation pathway is also valid, this contributes little to the overall risks owing to the dilution of VOC in outdoor air. RBCA does not take direct account of the presence of VOC from non-aqueous phase chemicals but highlights when the assessment criterion exceeds the solubility limit of the pure compound.

Input selection – chemical and toxicological parameters

Key parameters used in the RBCA model are listed and justified in Table 1. The most up-to-date published chemical and toxicological data was obtained from EA Report SC050021/SR7⁽²⁾, the EA TOX⁽⁵⁾ reports, and published by Nathaniel et al.,⁽⁶⁾, as appropriate. Toxicological and specific chemical parameters for 1,2,4-trimethylbenzene and methyl tertiary-butyl ether (MTBE) were obtained from the CL:AIRE Soil Generic Assessment Criteria report⁽⁷⁾.

The toxicological input parameters are associated with minimal risk, rather than low risk.

For petroleum hydrocarbon fractions, aromatic hydrocarbons C5–C8 were not modelled, as this range comprises benzene (>EC5-EC7) and toluene (>EC7-EC8), which are modelled separately.

For the GrAC, the Health Criteria Values (HCV) used in the modelling were derived using the toxicological data for the Soil Assessment Criteria, amended as follows:

- A child weighing 13.3kg (average of 0-6 year old female in accordance with Table 4.6 of SR3⁽³⁾) and breathing 8.77m³ (average daily inhalation rate for a 0-6yr old female in accordance with SP1010 final project report for the C4SL (Table 3.2⁽⁸⁾) and USEPA data⁽⁹⁾)
- Background inhalation (mean daily intake (MDI)) for a child (Age Classes 1-6)
- Residential amendments to the MDI for younger age groups following Table 3.4 and Section 3.4.1 of SR2⁽¹⁰⁾; amended to reflect average daily inhalation rates in accordance with SP1010 final project report for the C4SL (Table 3.2⁽⁸⁾) and USEPA data⁽⁹⁾. Correction factors are presented in Table 1.

Table 1: Correction factors used to adjust adult MDI to younger age groups

Age Class	Body weight (kg) ¹	Inhalation rate (m ³ /day) ²	Correction factor for inhalation MDI ³
1	5.6	5.4	0.34
2	9.8	8	0.51
3	12.7	8.9	0.57
4	15.1	10.1	0.64
5	16.9	10.1	0.64
6	19.7	10.1	0.64
17	70	15.7	-
Mean (AC1-6)	13.3	8.8	0.56
Notes ¹ Body weight from CLEA v1.071 ² Inhalation rate from Table 3.2 of the SP1010 final project report for the C4SL ⁽⁸⁾ ³ Inhalation correction factors are the ratio of the average male and female inhalation rates for each age class to the adult rate at age class 17 (age 16–59 years) and are based on the rates used by the Category 4 Screening Levels to derive the C4SLs ⁽⁸⁾ , following the methodology in SR2 ⁽¹⁰⁾ .			

The amended HCV used in the derivation of the RSK GrAC are presented in Table 2.

Note on Trimethylbenzenes

For trimethylbenzenes the CL:AIRE report⁽⁷⁾ based background inhalation from non-soil sources (MDI) on a Dutch study from 1985, which is reported to have identified an average daily dose of 1,2,4-trimethylbenzene of 86 ug d⁻¹ (1,3,5-trimethylbenzene was 20.5 ug d⁻¹). This dose value was based on the upper end of the identified concentration range of 1,2,4-trimethylbenzene (2.46 – 5.66 ug m⁻³) and was used to calculate an a MDI of 1.23 ug kg⁻¹ bw d⁻¹ for a 70 kg adult breathing 20 m³ of air daily.

The approach recommended in SR2⁽¹⁰⁾, and also adopted for the C4SLs⁽⁸⁾, for non-carcinogenic (threshold) compounds such as trimethylbenzenes is to subtract the MDI from the tolerable daily intake (TDI) to obtain a tolerable daily intake from soil (TDSI) in units of ug kg⁻¹ bw d⁻¹. For 1,2,4-trimethylbenzene, the adult MDI from the Dutch study used in the CL:AIRE report⁽⁷⁾ (1.23 ug kg⁻¹ bw d⁻¹) is a significant proportion of the TDI (2.0 ug kg⁻¹ bw d⁻¹), resulting in a low TDSI (1.0 ug kg⁻¹ bw d⁻¹) when the 50% rule is applied (i.e. TDSI = TDI * 0.5 when MDI is high relative to TDI). This TDSI equates to an Inhalation Reference Concentration (or modified Health Criteria Value) for adults of 3.4 ug m⁻³ (70 kg adult breathing 15.7 m³ d⁻¹).

By comparison the adult inhalation modified HCV for benzene is 6.2 ug m⁻³, which is proven human carcinogen (non-threshold compound).

Table 2: Amended Health Criteria Values

	Modified HCV (mg/m ³)
VOC / SVOC	Child (Residential)
MTBE	1.0803
Benzene	0.0021
Toluene	2.1164
Ethylbenzene	0.1113
Xylenes	0.0834
Trimethylbenzenes	0.0026
TPH Aliph EC5-EC6	3.7913
TPH Aliph >EC6-EC8	3.7913
TPH Aliph >EC8-EC10	0.2199
TPH Aliph >EC10-EC12	0.2199
TPH Aliph >EC12-EC16	0.2199
TPH Arom >EC8-EC10	0.0455
TPH Arom >EC10-EC12	0.0455
TPH Arom >EC12-EC16	0.0455
Acenaphthene	0.0910
Acenaphthylene	0.0910
Naphthalene	0.0011
Vinyl chloride	0.0005
Dichloroethane-1,2	0.0002
Tetrachloroethene	0.0083
Carbon tetrachloride	0.0025
Trichloroethane-1,1,1	0.9099
Trichloroethene	0.0009
Tetrachloroethane 1,1,2,2 & 1,1,1,2	0.0086
1,1,2-Trichloroethane	0.0073
1,1-dichloroethene	0.0864
Chloroethane	4.3318
Chloromethane	0.0039
Dichloromethane	0.1781

The MDI for 1,2,4-trimethylbenzene is considered by RSK to be overly conservative for the following reasons:

- The Dutch 1985 study is dated and air quality has improved since this time
- The maximum value in the range (5.66 ug m⁻³) was used in calculating the MDI
- Experience has shown that trimethylbenzenes often appear to drive inhalation risks to a greater extent than benzene, even though the latter is carcinogenic and more volatile.

As an alternative to the 1985 Dutch study, RSK have obtained automated roadside air quality monitoring data for the UK from www.uk-air.defra.gov.uk/. The average concentration of 1,2,4-trimethylbenzene measured during 2015 at Eltham, south-east London (urban) was 0.309 ug m⁻³,

significantly lower than that identified in the Dutch study and used by CL:AIRE⁽⁷⁾ for calculation of a MDI. Whilst an average concentration of 1,2,4-trimethylbenzene in UK urban and rural areas is likely to be significantly below 0.0309 ug m^{-3} , this value is considered to be suitably conservative for the calculation of a modified HCV for trimethylbenzenes in the UK.

On this basis, the HCV for 1,2,4-trimethylbenzene for adults and children was calculated as 8.5 ug m^{-3} (0.0085 mg m^{-3}) and 2.6 ug m^{-3} (0.0026 mg m^{-3}), respectively (see Table 3). Due to the paucity of toxicological data for 1,2,3-trimethylbenzene and 1,3,5-trimethylbenzene the modified HCV for 1,2,4-trimethylbenzene is considered suitable for assessing total trimethylbenzenes.

Note on aqueous solubility and the RSK GrAC

Where the modelled assessment criteria, or the modelled assessment criteria with the correction factor applied to those contaminants specified below, exceeds the aqueous solubility limit the assessment criteria defaults to this concentration and consequently the GrAC is set at the limit of solubility. These assessment criteria are shaded in red in Table 4.

The theoretical aqueous solubility is the maximum amount of a single chemical that will dissolve in pure water at a specified temperature. Above this concentration, the chemical will exist in the non-aqueous phase (i.e. in its natural physical form as a solid, liquid (NAPL) or gas). If the contaminant, based on its toxicity, is not considered to pose a risk to human health at the aqueous solubility concentration then the contaminant can be considered not to pose a risk to human health. Where the GrAC is set at the aqueous solubility limit (shaded in red on Table 4), this is not a risk based assessment criteria but is indicative of the maximum amount of chemical that would be found dissolved in the water. Therefore an exceedance of the RSK GrAC set at the aqueous solubility limit is not indicative that there may be potential risks to human health. It should be noted that for certain contaminants (e.g. the lighter petroleum hydrocarbon fractions) the aqueous solubility is very low and may be at, or below, the laboratory method detection limit. It should also be noted that non-aqueous phase may exist where concentrations of individual compounds are well below their solubility limits where they are part of a mixture, in accordance with Raoult's Law.

Input selection - physical parameters

For the residential scenario, the CLEA default building is a small, two-storey terrace house with a concrete ground-bearing slab as detailed in Table 3. Environment Agency document SR3⁽³⁾ notes this residential building type to be the most conservative in terms of potential for vapour intrusion. The building parameters used in the production of the RSK GrACs are the default CLEA v1.071 inputs presented in Table 3.3 of SR3⁽³⁾.

The RSK GrAC have been calculated for both Sand and Sandy Loam soils. The soil parameters used in the derivation of the RSK GrAC are those presented in Table 3.1 of SR3⁽³⁾.

The RSK GrAC have been derived for groundwater depths of 0.65 m, 1.5 m, 2.5 m and 5.0 m below ground level, incorporating a capillary fringe (see Table 4).

Input selection - attenuation factors

In line with recommendations provided in Environment Agency SR3⁽³⁾ a sub-surface to indoor attenuation factor of 10 has been applied to certain RBCA derived 'site-specific target levels'. SR3⁽³⁾ states that, as a general rule of thumb, it is recognised that estimating vapour phase concentrations from dissolved and sorbed phase petroleum hydrocarbons by using partition



coefficients are at least a factor of ten higher than those likely to be measured on-site. This difference is likely to be due to a number of factors, however aerobic biodegradation in the unsaturated zone is believed to be largely responsible. RSK has therefore applied this attenuation factor to all volatile petroleum hydrocarbon fractions (including BTEX, trimethylbenzenes and the polycyclic aromatic hydrocarbons (PAH) naphthalene, acenaphthene and acenaphthylene). No such attenuation factors have been applied to other non-hydrocarbon chemical species, including chlorinated hydrocarbons or fuel oxygenates such as MtBE.

Convective (volumetric) air flow through foundation cracks (Q_{soil}) is a sensitive parameter in the calculation of GrAC and has been calculated within RBCA on a soil-specific basis for Sand and Sandy Loam in a residential exposure scenario (see Table 3). This approach is less conservative than using the default Q_{soil} value recommended in SR3⁽³⁾ for a Sandy Loam ($25 \text{ cm}^3 \text{ s}^{-1}$) and used in the CLEA model (version 1.071) for Sandy Loam (and Sand) soils ($25 \text{ cm}^3 \text{ s}^{-1}$) in a residential scenario.

Table 3: Residential scenario – RBCA inputs

Parameter	Unit	Value	Justification
Receptor – female child			
Averaging time	Years	6	From Box 3.1, SR3 ⁽³⁾
Receptor weight	kg	13.3	Average of CLEA 0-6 year old female data, Table 4.6, SR3 ⁽³⁾
Exposure duration	Years	6	From Box 3.1, report , SR3 ⁽³⁾
Exposure frequency	Days yr ⁻¹	350	Weighted using occupancy period of 23 hours per day for 365 days of the year
Soil type – sand			
Total porosity	-	0.54	CLEA value for sand. Parameters for sand from Table 4.4, SR3 ⁽³⁾ . Volumetric water content in the vadose zone is a highly sensitive parameter within the model and potentially highly variable in the field.
Volumetric water content – unsaturated (vadose) zone	-	0.24	
Volumetric air content - unsaturated (vadose) zone	-	0.30	
Dry bulk density	g cm ⁻³ or kg L ⁻¹	1.18	
Volumetric water content – capillary zone	-	0.35	Calculated using SR3 Equation 4.1. Value taken as the average moisture content calculated for suction heads (cm H ₂ O); 0 (i.e. saturated), 10, 20, 30, 40, 50 (i.e. unsaturated soil at field capacity). This is a highly sensitive parameter within the model.
Volumetric air content - capillary zone	-	0.19	Calculated from total porosity and volumetric water content of capillary zone. This is a highly sensitive parameter within the model.
Vertical hydraulic conductivity	cm d ⁻¹	636	CLEA value for saturated conductivity of sandy loam, Table 4.4, SR3 ⁽³⁾ equivalent to 7.36 E-03 cm s ⁻¹
Vapour permeability	m ²	7.54 E-12	Calculated for sand using equations in Appendix 1, SR3 ⁽³⁾
Capillary zone thickness	m	0.25	Taken from C W Fetter, Applied Hydrogeology 4 th Ed, 1994 ⁽¹¹⁾ and R Heath, Basic groundwater hydrology 1992 ⁽¹²⁾ for a medium sand
Fraction organic carbon	%	0.0058	Equivalent to SOM = 1%. Note that GrAC are independent on FOC/SOM content since partitioning is assumed to be between aqueous and vapour phases only
Soil type – sandy loam			
Total porosity	-	0.53	CLEA value for sandy loam. Parameters for sandy loam from Table 4.4, SR3 ⁽³⁾ . Volumetric water content in the vadose zone is a highly sensitive parameter within the model and potentially highly variable in the field.
Volumetric water content – unsaturated (vadose) zone	-	0.33	
Volumetric air content - unsaturated (vadose) zone	-	0.20	
Dry bulk density	g cm ⁻³ or kg/L	1.21	
Volumetric water content – capillary zone	-	0.42	Calculated using SR3 Equation 4.1 ⁽³⁾ . Value taken as the average moisture content calculated for suction heads (cm H ₂ O); 0 (i.e. saturated), 10, 20, 30, 40, 50 (i.e. unsaturated soil at field capacity). This is a highly sensitive parameter within the model.
Volumetric air content - capillary zone	-	0.11	Calculated from total porosity and volumetric water content of capillary zone. This is a highly sensitive parameter within the model.

Parameter	Unit	Value	Justification
Vertical hydraulic conductivity	cm d ⁻¹	308	CLEA value for saturated conductivity of sandy loam, Table 4.4, SR3 ⁽³⁾ equivalent to 3.56E-3 cm s ⁻¹
Vapour permeability	m ²	3.05 E-12	Calculated for sandy loam using equations in Appendix 1, SR3 ⁽³⁾
Capillary zone thickness	m	0.4	Taken from R Heath, Basic Groundwater Hydrology 1992 ⁽¹²⁾ for a fine sand. Note: C W Fetter, Applied Hydrogeology 4 th Ed, 1994 ⁽¹¹⁾ value for fine sand is 0.5 m
Fraction organic carbon	%	0.0058	Equivalent to SOM = 1%. Note that GrAC are independent on FOC/SOM content since partitioning is assumed to be between aqueous and vapour phases only
Building – small terrace house			
Building volume/area ratio	m	4.8	Table 3.3, SR3 ⁽³⁾
Foundation area	m ²	28	
Foundation perimeter	m	21.16	Calculated using Equation A2 in SR3 ⁽³⁾ , which assumes the building to be of square proportions.
Building air exchange rate	d ⁻¹	12	Table 3.3, SR3 ⁽³⁾ Building air exchange rate equivalent to 1.4 E-04 s ⁻¹
Depth to bottom of foundation slab	m	0.15	
Foundation thickness	m	0.15	
Foundation crack fraction	-	0.00151	Calculated from floor crack area of 423cm ² and building footprint of 28m ² in Table 4.21, SR3 ⁽³⁾
Volumetric water content of cracks	-	0.24 / 0.33	For sand / sandy loam, assumed equal to underlying soil type in assumption that cracks become filled with unsaturated zone soil over time. Parameters for sand and sandy loam from Table 4.4, SR3 ⁽³⁾
Volumetric air content of cracks	-	0.30 / 0.20	
Indoor/outdoor differential pressure	Pa	3.1	From Table 3.3, SR3 ⁽³⁾ Equivalent to 31 g/cm/s ²
Convective air flow through cracks (Q _{soil}) - Sand	m ³ s ⁻¹	3.4 E-05	Soil-specific calculated parameter in RBCA equivalent (and cross checked) with equations A1, A2, A3, A8, A9 in SR3 ⁽³⁾ . Equivalent to 34 cm³ s⁻¹
Convective air flow through cracks (Q _{soil}) – Sandy Loam	m ³ s ⁻¹	1.4 E-05	Soil-specific calculated parameter in RBCA equivalent (and cross checked) with equations A1, A2, A3, A8, A9 in SR3 ⁽³⁾ . Equivalent to 14 cm³ s⁻¹

RSK GrAC derivation outputs

The RSK GrACs are presented in Table 4.

Within the RSK GrAC the following should be noted:

- GrAC do not take account of outdoor inhalation exposure to VOC, which is considered to contribute minimally to overall inhalation exposure
- GrAC do not take account of other exposure routes potentially relevant to VOC in shallow groundwater such as direct contact or root uptake
- No biodegradation is assumed to occur in the unsaturated zone. Where aerobic conditions on site are known to exist the GrAC for hydrocarbons may therefore be conservative
- GrAC do not take account of preferential flow into buildings such as through unsealed service entries. In such circumstances GrAC may not be appropriate for use
- GrAC are based on a soil vapour intrusion CSM and are not appropriate for use when the foundation is in direct contact with contaminated groundwater



- GrAC assume that the capillary fringe is un-contaminated with VOC, which is unlikely, particularly where groundwater levels are variable
- GrAC set at the theoretical aqueous solubility limit are not considered to pose a risk to human health
- GrAC do not take into account the interaction between contaminants and the influence this may have on the theoretical aqueous solubility
- GrACs are only applicable to dissolved phase contaminants where the modelled assessment criteria is below the aqueous solubility limits

References

1. Society for Brownfield Risk Assessment (SoBRA) (2017), *Development of generic risk assessment criteria for assessing vapour risks to human health from volatile contaminants in groundwater* (<https://sobra.org.uk/>). (accessed March 2017)
2. Environment Agency (2009), *Science Report – SC050021/SR4 CLEA Software (version 1.05) Handbook* (Bristol: Environment Agency).
3. Environment Agency (2009), *Science Report – SC050021/SR3 Updated technical background to the CLEA model* (Bristol: Environment Agency).
4. Environment Agency (2008), *Science Report SC050021/SR7. Compilation of Data for Priority Organic Pollutants for Derivation of Soil Guideline Values* (Bristol: Environment Agency).
5. Environment Agency (2009), 'Science Reports SC050021 - SGV and TOX reports for: benzene, toluene, ethylbenzene, xylene, mercury, selenium, nickel, arsenic, cadmium, phenol, dioxins, furans and dioxin-like PCBs'; 'Supplementary information for the derivation of SGV for: benzene, toluene, ethylbenzene, xylene, mercury, selenium, nickel, arsenic, cadmium, phenol, dioxins, furans and dioxin-like PCBs', and 'Contaminants in soil: updated collation of toxicological data and intake values for humans: benzene, toluene, ethylbenzene, xylene, mercury, selenium, nickel, arsenic, cadmium, phenol, dioxins, furans and dioxin-like PCBs'. Available at: <https://www.gov.uk/government/publications/contaminants-in-soil-updated-collation-of-toxicological-data-and-intake-values-for-humans> and <https://www.gov.uk/government/publications/land-contamination-soil-guideline-values-sgvs> (accessed 4 February 2015)
6. Nathaniel, C. P., McCaffrey, C., Ashmore, M., Cheng, Y., Gillet, A. G., Ogden, R. C. and Scott, D. (2009), *LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment*, second edition (Nottingham: Land Quality Press).
7. CL:AIRE (2009), *Soil Generic Assessment Criteria for Human Health Risk Assessment* (London: CL:AIRE).
8. Contaminated Land: Applications in Real Environment (CL:AIRE) (2014). 'Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination', Revision 2, DEFRA research project SP1010.
9. USEPA (2011), *Exposure factors handbook*, EPA/600/R-090/052F (Washington, DC: Office of Research and Development).
10. Environment Agency (2009), *Human health toxicological assessment of contaminants in soil. Science Report – Final SC050021/SR2* (Bristol: Environment Agency).
11. Fetter, C.W. (1994), *Applied Hydrogeology*. 4th Ed.
12. Heath, R. (1992), *Basic Groundwater Hydrology*. U.S. Geological Survey, Water Supply Paper 2220.

GW Depth (m)		Table 4: RSK GrAC (ug/l)							
		RESIDENTIAL							
		SAND				SANDY LOAM			
		0.65	1.5	2.5	5	0.65	1.5	2.5	5
Metals									
Elemental mercury	2.5	3.6	5.0	8.4	14.3	18.5	23.4	35.8	
Methyl mercury	21550	27220	33880	50540	46300	48510	51110	57610	
Volatile Organic Compounds									
Benzene	470	670	900	1490	2900	3640	4510	6680	
Toluene	515140	590000	590000	590000	590000	590000	590000	590000	
Ethylbenzene	24300	35190	48000	80020	156380	180000	180000	180000	
Xylene - m	22610	32750	44670	74480	144250	181800	200000	200000	
Xylene - o	27570	39950	54500	90900	174260	173000	173000	173000	
Xylene - p	23640	34230	46700	77860	150470	189710	200000	200000	
Total xylene	22610	32750	44670	74480	144250	173000	173000	173000	
Methyl tertiary-Butyl ether (MTBE)	185010	267500	364520	607070	945700	1245710	1598660	2481040	
Trichloroethene	13	18	25	41	82	100	130	190	
Tetrachloroethene	80	120	160	260	520	650	810	1200	
1,1,1-Trichloroethane	7110	10230	13910	23090	46230	57820	71450	105540	
1,1,1,2-Tetrachloroethane	550	800	1100	1830	3330	4250	5330	8040	
1,1,2,2-Tetrachloroethane	3620	5320	7320	12320	14600	20600	27650	45290	
Carbon Tetrachloride	12	17	24	39	79	98	120	180	
1,2-Dichloroethane	20	28	38	63	100	140	170	260	
Vinyl Chloride	1.3	1.8	2.4	4.0	8	10	12	18	
1,2,4-Trimethylbenzene	980	1430	1960	3270	6240	7900	9850	14720	
Semi-Volatile Organic Compounds									
Acenaphthene	4100	4100	4100	4100	4100	4100	4100	4100	
Acenaphthylene	7950	7950	7950	7950	7950	7950	7950	7950	
Naphthalene	5100	7530	10380	17510	19000	19000	19000	19000	
Petroleum Hydrocarbons									
Aliphatic hydrocarbons EC5-EC6	4170	5900	7930	13020	26560	32990	35900	35900	
Aliphatic hydrocarbons >EC6-EC8	3210	4540	5370	5370	5370	5370	5370	5370	
Aliphatic hydrocarbons >EC8-EC10	120	170	230	380	427	427	427	427	
Aliphatic hydrocarbons >EC10-EC12	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	
Aliphatic hydrocarbons >EC12-EC16	0.759	0.759	0.759	0.759	0.759	0.759	0.759	0.759	
Aromatic hydrocarbons >EC8-EC10	4150	5870	7900	12960	25730	32120	39630	58400	
Aromatic hydrocarbons >EC10-EC12	14480	20510	24500	24500	245000	245000	245000	245000	
Aromatic hydrocarbons >EC12-EC16	5750	5750	5750	5750	5750	5750	5750	5750	
Notes:									
Values less than 100 have not been rounded up or down; values greater than 100 have been rounded to the nearest 10.									
Highlighted values exceed solubility limit for the pure compound in water (aqueous solubility); GrAC defaults to the limit of solubility.									
No vadose zone biodegradation considered									
Sub-surface to indoor air correction factor of 10 applied to all petroleum (non-chlorinated) hydrocarbons									
All GrAC are for 1% SOM (0.0058 FOC)									

GENERIC ASSESSMENT CRITERIA FOR POTABLE WATER SUPPLY PIPES

A range of pipe materials is available and careful selection, design and installation is required to ensure that water supply pipes are satisfactorily installed and meet the requirements of the Water Supply (Water Fittings) Regulations 1999 in England and Wales, the Byelaws 2000 in Scotland and the Northern Ireland Water Regulations. The regulations include a requirement to use only suitable materials when laying water pipes and laying water pipes without protection is not permitted at contaminated sites. The water supply company has a statutory duty to enforce the regulations.

Contaminants in the ground can pose a risk to human health by permeating potable water supply pipes. To fulfil their statutory obligation, UK water supply companies require robust evidence from developers to demonstrate either that the ground in which new plastic supply pipes will be laid is free from specific contaminants, or that the proposed remedial strategy will mitigate any existing risk. If these requirements cannot be demonstrated to the satisfaction of the relevant water company, it becomes necessary to specify an alternative pipe material on the whole development or in specific zones.

In 2010, UK Water Industry Research (UKWIR) published *Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites* (Report Ref. No. 10/WM/03/21). This report reviewed previously published industry guidelines and threshold concentrations adopted by individual water supply companies.

The focus of the UKWIR research project was to develop clear and concise procedures, which provide consistency in the pipe selection decision process. It was intended to provide guidance that can be used to ensure compliance with current regulations and to prevent water supply pipe failing prematurely due to the presence of contamination.

The report concluded that in most circumstances only organic contaminants pose a potential risk to plastic pipe materials and Table 3.1 of the report provides threshold concentrations for polyethylene (PE) and polyvinyl chloride (PVC) pipes for the organic contaminants of concern. The report also makes recommendations for the procedures to be adopted in the design of site investigations and sampling strategies, and the assessment of data, to ensure that the ground through which water supply pipes will be laid is adequately characterised.

Risks to water supply pipes have therefore been assessed against the threshold concentrations for PE and PVC pipe specified in Table 3.1 of Report 10/WM/03/21, which have been adopted as the GAC for this linkage and are reproduced in Table A3 below.

Since water supply pipes are typically laid at a minimum depth of 0.75m below finished ground levels, sample results from depths between 0.5m and 1.5m below finished level are generally considered suitable for assessing risks to water supply. Samples outside these depths can be used, providing the stratum is the same as that in which water supply pipes are likely to be

located. The report specifies that sampling should characterise the ground conditions to a minimum of 0.5m below the proposed depth of the pipe.

It should be noted that the assessment provided in this report is a guide and the method of assessment and recommendations should be checked with the relevant water supply company.

Table A3: Generic assessment criteria for water supply pipes

		Pipe material	
		GAC (mg/kg)	
	Parameter group	PE	PVC
1	Extended VOC suite by purge and trap or head space and GC-MS with TIC (Not including compounds within group 1a)	0.5	0.125
1a	<ul style="list-style-type: none"> BTEX + MTBE 	0.1	0.03
2	SVOCs TIC by purge and trap or head space and GC-MS with TIC (aliphatic and aromatic C ₅ -C ₁₀) (Not including compounds within group 2e and 2f)	2	1.4
2e	<ul style="list-style-type: none"> Phenols 	2	0.4
2f	<ul style="list-style-type: none"> Cresols and chlorinated phenols 	2	0.04
3	Mineral oil C ₁₁ -C ₂₀	10	Suitable
4	Mineral oil C ₂₁ -C ₄₀	500	Suitable
5	Corrosive (conductivity, redox and pH)	Suitable	Suitable
Specific suite identified as relevant following site investigation			
2a	Ethers	0.5	1
2b	Nitrobenzene	0.5	0.4
2c	Ketones	0.5	0.02
2d	Aldehydes	0.5	0.02
6	Amines	Not suitable	Suitable

Notes: where indicated as 'suitable', the material is considered resistant to permeation or degradation and no threshold concentration has been specified by UKWIR.

1 RISK ASSESSMENT METHODOLOGY

Risk is a combination of the 'likelihood' of an event occurring and the magnitude of its 'consequences'. Therefore, in order to assess risk, both the likelihood and the consequences of an event must be taken into account. RSK Group Plc has adopted guidance provided in CIRIA C552 for use in the production of risk assessments.

The likelihood of an event can be classified on a four point system using the following terms and definitions based on CIRIA C552:

Highly likely: The event appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution;

Likely: It is probable that an event will occur, or circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term;

Low likelihood: Circumstances are possible under which an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term;

Unlikely: Circumstances are such that it is improbable the event would occur even in the long term.

The severity can be classified using a similar system similarly based on CIRIA C552:

Severe: Short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. Short term risk to an ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000);

Medium: Chronic damage to human health ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000), pollution of sensitive water resources, significant change in an ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000);

Mild: Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures or the environment; and

Minor: Harm, not necessarily significant, but that could result in financial loss or expenditure to resolve. Non-permanent human health effects easily prevented by use of personal protective clothing. Easily repairable damage to buildings, structures and services.

Once the likelihood of an event occurring and its severity have been classified, a risk category can be assigned the table below. **RISK CLASSIFICATION SYSTEM (CIRIA 552)**

		RISK CLASSIFICATION SYSTEM (CIRIA 552)			
		Consequence			
		Severe	Medium	Mild	Minor
Probability	Highly likely	Very high	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/Low	Low
	Low likelihood	Moderate	Moderate/Low	Low	Very Low
	Unlikely	Moderate/Low	Low	Very Low	Very Low

APPENDIX E - MONITORING RECORDS


(i) Gas/Groundwater Monitoring Results

IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks
Round 1	-	Rising	1006	1007	Weather: Cloudy + Ground: Wet + Wind: Light + Air Temp: 10DegC
Round 2	-	Rising	990	991	Weather: Rain + Ground: Wet + Wind: Light + Air Temp: 11DegC
Round 3	-	Fluctuating	1024	1024	Weather: Cloudy + Ground: Dry + Wind: Light + Air Temp: 12DegC
Round 4	-	Rising	1013	1014	Weather: Cloudy + Ground: Dry + Wind: Light + Air Temp: 4DegC

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	1	50	1	7.70	---	2.00 to 7.70	01/11/2018 12:00:00	1007	1007	0.0 _(I)	-	-	-	-	-	-	-
BH1	1	50	1		---	2.00 to 7.70	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
BH1	1	50	1 (2)	7.70	---	2.00 to 7.70	01/11/2018 12:02:00	-	-	-	-	0.0	0.0	20.9	1.6	0	0
BH1	1	50	1 (2)		---	2.00 to 7.70	15 secs	-	-	-	-	0.1	0.0	19.2	-	51	0
BH1	1	50	1 (2)		---	2.00 to 7.70	30 secs	-	-	-	-	0.1	0.1	15.8	-	68	1
BH1	1	50	1 (2)		---	2.00 to 7.70	60 secs	-	-	-	-	0.1	0.1	15.1	-	69	1
BH1	1	50	1 (2)		---	2.00 to 7.70	90 secs	-	-	-	-	0.1	0.1	15.1	-	69	1
BH1	1	50	1 (2)		---	2.00 to 7.70	120 secs	-	-	-	-	0.1	0.1	15.1	-	69	1
BH1	1	50	1 (2)		---	2.00 to 7.70	180 secs	-	-	-	-	0.1	0.0	15.5	-	65	1
BH1	1	50	1 (2)		---	2.00 to 7.70	240 secs	-	-	-	-	0.0	0.0	16.1	-	58	1
BH1	1	50	1 (2)		---	2.00 to 7.70	300 secs	-	-	-	-	0.0	0.0	16.6	-	53	1
BH1	1	50	1 (2)		---	2.00 to 7.70	360 secs	-	-	-	-	0.0	0.0	16.9	-	49	1
BH1	1	50	1 (3)	7.70	7.75	2.00 to 7.70	01/11/2018 12:09:00	-	-	-	2.23	-	-	-	-	-	-
BH1	1	50	2	7.70	---	2.00 to 7.70	07/11/2018 11:39:00	991	991	0.0 _(I)	-	-	-	-	-	-	-
BH1	1	50	2		---	2.00 to 7.70	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
BH1	1	50	2 (2)	7.70	---	2.00 to 7.70	07/11/2018 11:41:00	-	-	-	-	0.0	0.0	20.9	0.7	0	0
BH1	1	50	2 (2)		---	2.00 to 7.70	15 secs	-	-	-	-	0.1	0.6	18.4	-	8	0
BH1	1	50	2 (2)		---	2.00 to 7.70	30 secs	-	-	-	-	0.1	0.8	15.1	-	10	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By <i>J. Evans</i>	Date 17/01/19	Checked By <i>Wanell</i>	Date 17/01/19	Contract Ref: 733272
	Contract: Former Lombard Service Station, Bristol				



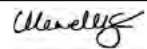


IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	1	50	2 (2)		---	2.00 to 7.70	60 secs	-	-	-	-	0.1	0.9	14.3	-	10	0
BH1	1	50	2 (2)		---	2.00 to 7.70	90 secs	-	-	-	-	0.1	0.9	14.3	-	10	0
BH1	1	50	2 (2)		---	2.00 to 7.70	120 secs	-	-	-	-	0.1	0.9	14.3	-	10	0
BH1	1	50	2 (2)		---	2.00 to 7.70	180 secs	-	-	-	-	0.1	0.8	14.3	-	10	0
BH1	1	50	2 (2)		---	2.00 to 7.70	240 secs	-	-	-	-	0.1	0.8	14.3	-	10	0
BH1	1	50	2 (2)		---	2.00 to 7.70	300 secs	-	-	-	-	0.1	0.8	14.3	-	10	0
BH1	1	50	2 (2)		---	2.00 to 7.70	360 secs	-	-	-	-	0.1	0.8	14.3	-	10	0
BH1	1	50	2 (3)	7.70	7.74	2.00 to 7.70	07/11/2018 11:48:00	-	-	-	2.37	-	-	-	-	-	-
BH1	1	50	3	7.70	---	2.00 to 7.70	16/11/2018 09:33:00	1024	1024	-0.5 _(l)	-	-	-	-	-	-	-
BH1	1	50	3		---	2.00 to 7.70	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
BH1	1	50	3 (2)	7.70	---	2.00 to 7.70	16/11/2018 09:35:00	-	-	-	-	0.0	0.0	20.9	0.3	0	0
BH1	1	50	3 (2)		---	2.00 to 7.70	15 secs	-	-	-	-	0.6	0.3	19.8	-	35	0
BH1	1	50	3 (2)		---	2.00 to 7.70	30 secs	-	-	-	-	0.6	0.3	18.9	-	38	0
BH1	1	50	3 (2)		---	2.00 to 7.70	60 secs	-	-	-	-	0.6	0.3	18.7	-	37	0
BH1	1	50	3 (2)		---	2.00 to 7.70	90 secs	-	-	-	-	0.7	0.4	18.6	-	37	0
BH1	1	50	3 (2)		---	2.00 to 7.70	120 secs	-	-	-	-	0.7	0.4	18.6	-	37	0
BH1	1	50	3 (2)		---	2.00 to 7.70	180 secs	-	-	-	-	0.6	0.3	18.5	-	38	0
BH1	1	50	3 (2)		---	2.00 to 7.70	240 secs	-	-	-	-	0.4	0.2	18.2	-	37	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

	STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By 	Date 17/01/19	Checked By 	Date 17/01/19	Contract Ref: 733272
	Contract: Former Lombard Service Station, Bristol					



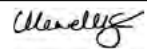


IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	1	50	3 (2)		---	2.00 to 7.70	300 secs	-	-	-	-	0.2	0.1	18.0	-	36	0
BH1	1	50	3 (2)		---	2.00 to 7.70	360 secs	-	-	-	-	0.2	0.1	17.9	-	35	0
BH1	1	50	3 (2)		---	2.00 to 7.70	420 secs	-	-	-	-	0.1	0.1	17.9	-	34	0
BH1	1	50	3 (2)		---	2.00 to 7.70	460 secs	-	-	-	-	0.1	0.1	17.9	-	33	0
BH1	1	50	3 (2)		---	2.00 to 7.70	540 secs	-	-	-	-	0.1	0.0	17.9	-	30	0
BH1	1	50	3 (2)		---	2.00 to 7.70	600 secs	-	-	-	-	0.1	0.0	17.9	-	29	0
BH1	1	50	3 (3)	7.70	7.77	2.00 to 7.70	16/11/2018 09:46:00	-	-	-	1.89	-	-	-	-	-	-
BH1	1	50	4	7.70	---	2.00 to 7.70	13/12/2018 11:59:00	1013	1014	0.0 _(I)	-	-	-	-	-	-	-
BH1	1	50	4		---	2.00 to 7.70	120 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
BH1	1	50	4 (2)	7.70	---	2.00 to 7.70	13/12/2018 12:02:00	-	-	-	-	0.0	0.0	20.9	5.7	0	0
BH1	1	50	4 (2)		---	2.00 to 7.70	15 secs	-	-	-	-	0.1	0.5	20.9	-	21	0
BH1	1	50	4 (2)		---	2.00 to 7.70	30 secs	-	-	-	-	0.1	0.7	17.9	-	25	0
BH1	1	50	4 (2)		---	2.00 to 7.70	60 secs	-	-	-	-	0.1	0.8	16.8	-	24	0
BH1	1	50	4 (2)		---	2.00 to 7.70	90 secs	-	-	-	-	0.1	0.8	16.7	-	22	0
BH1	1	50	4 (2)		---	2.00 to 7.70	120 secs	-	-	-	-	0.1	0.8	16.6	-	21	0
BH1	1	50	4 (2)		---	2.00 to 7.70	180 secs	-	-	-	-	0.1	0.8	16.7	-	19	0
BH1	1	50	4 (2)		---	2.00 to 7.70	240 secs	-	-	-	-	0.1	0.6	17.0	-	16	0
BH1	1	50	4 (2)		---	2.00 to 7.70	300 secs	-	-	-	-	0.1	0.4	17.6	-	14	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

	STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref: 733272
			17/01/19		17/01/19	
Contract: Former Lombard Service Station, Bristol						Page: 3 of 19



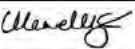


IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	1	50	4 (2)		---	2.00 to 7.70	360 secs	-	-	-	-	0.1	0.3	18.1	-	13	0
BH1	1	50	4 (2)		---	2.00 to 7.70	420 secs	-	-	-	-	0.1	0.2	18.3	-	13	0
BH1	1	50	4 (2)		---	2.00 to 7.70	480 secs	-	-	-	-	0.1	0.1	18.4	-	13	0
BH1	1	50	4 (2)		---	2.00 to 7.70	540 secs	-	-	-	-	0.1	0.1	18.5	-	13	0
BH1	1	50	4 (2)		---	2.00 to 7.70	600 secs	-	-	-	-	0.1	0.1	18.6	-	13	0
BH1	1	50	4 (3)	7.70	7.77	2.00 to 7.70	13/12/2018 12:13:00	-	-	-	1.57	-	-	-	-	-	-
Remarks: Samples taken.																	
BH2	1	50	1	7.30	---	2.30 to 7.30	01/11/2018 12:28:00	1007	1007	0.0 _(I)	-	-	-	-	-	-	-
BH2	1	50	1		---	2.30 to 7.30	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
BH2	1	50	1 (2)	7.30	---	2.30 to 7.30	01/11/2018 12:30:00	-	-	-	-	0.0	0.0	20.9	2.2	0	0
BH2	1	50	1 (2)		---	2.30 to 7.30	15 secs	-	-	-	-	0.1	0.5	10.7	-	279	0
BH2	1	50	1 (2)		---	2.30 to 7.30	30 secs	-	-	-	-	0.0	0.7	3.8	-	343	1
BH2	1	50	1 (2)		---	2.30 to 7.30	60 secs	-	-	-	-	0.0	0.8	1.8	-	332	1
BH2	1	50	1 (2)		---	2.30 to 7.30	90 secs	-	-	-	-	0.0	0.8	1.7	-	326	1
BH2	1	50	1 (2)		---	2.30 to 7.30	120 secs	-	-	-	-	0.0	0.8	1.6	-	325	1
BH2	1	50	1 (2)		---	2.30 to 7.30	180 secs	-	-	-	-	0.0	0.8	1.7	-	332	1
BH2	1	50	1 (2)		---	2.30 to 7.30	240 secs	-	-	-	-	0.0	0.7	1.9	-	342	1
BH2	1	50	1 (2)		---	2.30 to 7.30	300 secs	-	-	-	-	0.0	0.7	2.1	-	350	1

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	 Contract:	17/01/19		17/01/19	733272
Former Lombard Service Station, Bristol					Page: 4 of 19



IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH2	1	50	1 (2)		---	2.30 to 7.30	360 secs	-	-	-	-	0.0	0.7	2.3	-	351	1
BH2	1	50	1 (3)	7.30	7.65	2.30 to 7.30	01/11/2018 12:37:00	-	-	-	2.98	-	-	-	-	-	-
BH2	1	50	2	7.30	---	2.30 to 7.30	07/11/2018 11:56:00	991	991	0.0 _(I)	-	-	-	-	-	-	-
BH2	1	50	2		---	2.30 to 7.30	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
BH2	1	50	2 (2)	7.30	---	2.30 to 7.30	07/11/2018 11:58:00	-	-	-	-	0.0	0.0	20.9	1.4	0	0
BH2	1	50	2 (2)		---	2.30 to 7.30	15 secs	-	-	-	-	0.1	0.9	12.2	-	0	0
BH2	1	50	2 (2)		---	2.30 to 7.30	30 secs	-	-	-	-	0.1	1.2	3.3	-	2	0
BH2	1	50	2 (2)		---	2.30 to 7.30	60 secs	-	-	-	-	0.1	1.3	3.0	-	2	0
BH2	1	50	2 (2)		---	2.30 to 7.30	90 secs	-	-	-	-	0.1	1.3	2.9	-	2	0
BH2	1	50	2 (2)		---	2.30 to 7.30	120 secs	-	-	-	-	0.1	1.3	2.9	-	2	0
BH2	1	50	2 (2)		---	2.30 to 7.30	180 secs	-	-	-	-	0.1	1.3	2.9	-	2	0
BH2	1	50	2 (2)		---	2.30 to 7.30	240 secs	-	-	-	-	0.1	1.2	3.3	-	2	0
BH2	1	50	2 (2)		---	2.30 to 7.30	300 secs	-	-	-	-	0.1	1.2	3.1	-	2	0
BH2	1	50	2 (2)		---	2.30 to 7.30	360 secs	-	-	-	-	0.1	1.3	3.2	-	2	0
BH2	1	50	2 (2)		---	2.30 to 7.30	420 secs	-	-	-	-	0.1	1.3	2.7	-	2	0
BH2	1	50	2 (2)		---	2.30 to 7.30	480 secs	-	-	-	-	0.1	1.2	2.9	-	2	0
BH2	1	50	2 (2)		---	2.30 to 7.30	540 secs	-	-	-	-	0.1	1.3	2.9	-	2	0
BH2	1	50	2 (2)		---	2.30 to 7.30	600 secs	-	-	-	-	0.1	1.3	2.7	-	2	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

<p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	 Contract:	17/01/19	 Former Lombard Service Station, Bristol	17/01/19	733272
					Page: 5 of 19



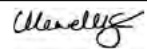


IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH2	1	50	2 (3)	7.30	7.63	2.30 to 7.30	07/11/2018 12:09:00	-	-	-	3.00	-	-	-	-	-	-
BH2	1	50	3	7.30	---	2.30 to 7.30	16/11/2018 10:37:00	1024	1024	0.0 _(I)	-	-	-	-	-	-	-
BH2	1	50	3		---	2.30 to 7.30	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
BH2	1	50	3 (2)	7.30	---	2.30 to 7.30	16/11/2018 10:39:00	-	-	-	-	0.0	0.0	20.9	0.3	0	0
BH2	1	50	3 (2)		---	2.30 to 7.30	15 secs	-	-	-	-	0.1	0.0	20.1	-	0	0
BH2	1	50	3 (2)		---	2.30 to 7.30	30 secs	-	-	-	-	0.0	0.0	18.9	-	1	0
BH2	1	50	3 (2)		---	2.30 to 7.30	60 secs	-	-	-	-	0.0	0.0	18.6	-	1	0
BH2	1	50	3 (2)		---	2.30 to 7.30	90 secs	-	-	-	-	0.0	0.0	18.3	-	1	0
BH2	1	50	3 (2)		---	2.30 to 7.30	120 secs	-	-	-	-	0.0	0.0	18.2	-	1	0
BH2	1	50	3 (2)		---	2.30 to 7.30	180 secs	-	-	-	-	0.0	0.0	18.0	-	1	0
BH2	1	50	3 (2)		---	2.30 to 7.30	240 secs	-	-	-	-	0.0	0.0	17.7	-	1	0
BH2	1	50	3 (2)		---	2.30 to 7.30	300 secs	-	-	-	-	0.0	0.0	17.2	-	1	0
BH2	1	50	3 (3)	7.30	7.66	2.30 to 7.30	16/11/2018 10:45:00	-	-	-	2.81	-	-	-	-	-	-
BH2	1	50	4	7.30	---	2.30 to 7.30	13/12/2018 12:37:00	1014	1014	0.0 _(I)	-	-	-	-	-	-	-
BH2	1	50	4		---	2.30 to 7.30	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
BH2	1	50	4 (2)	7.30	---	2.30 to 7.30	13/12/2018 12:40:00	-	-	-	-	0.0	0.0	20.5	1.4	0	0
BH2	1	50	4 (2)		---	2.30 to 7.30	15 secs	-	-	-	-	0.2	0.2	17.3	-	1	0
BH2	1	50	4 (2)		---	2.30 to 7.30	30 secs	-	-	-	-	0.2	0.3	6.8	-	1	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

	STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By 	Date 17/01/19	Checked By 	Date 17/01/19	Contract Ref: 733272
	Contract: Former Lombard Service Station, Bristol					Page: 6 of 19



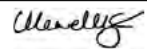


IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH2	1	50	4 (2)		---	2.30 to 7.30	60 secs	-	-	-	-	0.2	0.3	2.6	-	1	0
BH2	1	50	4 (2)		---	2.30 to 7.30	90 secs	-	-	-	-	0.2	0.4	2.2	-	1	0
BH2	1	50	4 (2)		---	2.30 to 7.30	120 secs	-	-	-	-	0.2	0.4	2.1	-	1	0
BH2	1	50	4 (2)		---	2.30 to 7.30	180 secs	-	-	-	-	0.2	0.4	2.1	-	1	0
BH2	1	50	4 (2)		---	2.30 to 7.30	240 secs	-	-	-	-	0.2	0.4	2.2	-	1	0
BH2	1	50	4 (2)		---	2.30 to 7.30	300 secs	-	-	-	-	0.2	0.3	2.8	-	2	0
BH2	1	50	4 (2)		---	2.30 to 7.30	360 secs	-	-	-	-	0.2	0.3	3.2	-	2	0
BH2	1	50	4 (2)		---	2.30 to 7.30	420 secs	-	-	-	-	0.2	0.4	3.4	-	2	0
BH2	1	50	4 (2)		---	2.30 to 7.30	480 secs	-	-	-	-	0.1	0.4	3.6	-	2	0
BH2	1	50	4 (2)		---	2.30 to 7.30	540 secs	-	-	-	-	0.1	0.4	3.7	-	2	0
BH2	1	50	4 (2)		---	2.30 to 7.30	600 secs	-	-	-	-	0.1	0.4	3.8	-	2	0
BH2	1	50	4 (3)	7.30	7.66	2.30 to 7.30	13/12/2018 12:51:00	-	-	-	2.53	-	-	-	-	-	-
Remarks: Samples taken.																	
BH3	1	50	1	7.70	---	1.50 to 7.70	01/11/2018 10:43:00	1006	1006	0.0 _(I)	-	-	-	-	-	-	-
BH3	1	50	1		---	1.50 to 7.70	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
BH3	1	50	1 (2)	7.70	---	1.50 to 7.70	01/11/2018 10:45:00	-	-	-	-	0.0	0.0	20.9	2.7	0	0
BH3	1	50	1 (2)		---	1.50 to 7.70	15 secs	-	-	-	-	2.6	10.6	15.2	-	2	0
BH3	1	50	1 (2)		---	1.50 to 7.70	30 secs	-	-	-	-	2.6	10.6	2.7	-	2	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	 Contract:	17/01/19	 Former Lombard Service Station, Bristol	17/01/19	733272
					Page: 7 of 19




IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH3	1	50	1 (2)		---	1.50 to 7.70	60 secs	-	-	-	-	2.7	10.7	0.8	-	1	0
BH3	1	50	1 (2)		---	1.50 to 7.70	90 secs	-	-	-	-	2.7	10.7	0.7	-	1	0
BH3	1	50	1 (2)		---	1.50 to 7.70	120 secs	-	-	-	-	2.7	10.7	0.6	-	1	0
BH3	1	50	1 (2)		---	1.50 to 7.70	180 secs	-	-	-	-	2.7	10.7	0.5	-	1	0
BH3	1	50	1 (2)		---	1.50 to 7.70	240 secs	-	-	-	-	2.7	10.7	0.5	-	1	0
BH3	1	50	1 (2)		---	1.50 to 7.70	300 secs	-	-	-	-	2.7	10.8	0.4	-	1	0
BH3	1	50	1 (2)		---	1.50 to 7.70	360 secs	-	-	-	-	2.7	10.7	0.3	-	1	0
BH3	1	50	1 (2)		---	1.50 to 7.70	420 secs	-	-	-	-	2.7	10.7	0.3	-	1	0
BH3	1	50	1 (2)		---	1.50 to 7.70	480 secs	-	-	-	-	2.7	10.5	0.4	-	0	0
BH3	1	50	1 (2)		---	1.50 to 7.70	540 secs	-	-	-	-	2.7	10.3	0.5	-	0	0
BH3	1	50	1 (2)		---	1.50 to 7.70	600 secs	-	-	-	-	2.7	10.0	0.5	-	0	0
BH3	1	50	1 (3)	7.70	7.94	1.50 to 7.70	01/11/2018 10:56:00	-	-	-	3.12	-	-	-	-	-	-
BH3	1	50	2	7.70	---	1.50 to 7.70	07/11/2018 09:09:00	990	990	0.0 _(I)	-	-	-	-	-	-	-
BH3	1	50	2		---	1.50 to 7.70	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
BH3	1	50	2 (2)	7.70	---	1.50 to 7.70	07/11/2018 09:11:00	-	-	-	-	0.0	0.0	20.9	0.2	0	0
BH3	1	50	2 (2)		---	1.50 to 7.70	15 secs	-	-	-	-	4.0	11.7	11.1	-	1	0
BH3	1	50	2 (2)		---	1.50 to 7.70	30 secs	-	-	-	-	4.0	11.8	2.4	-	1	0
BH3	1	50	2 (2)		---	1.50 to 7.70	60 secs	-	-	-	-	4.1	11.9	0.6	-	1	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By <i>J. Evans</i>	Date 17/01/19	Checked By <i>Wanell</i>	Date 17/01/19	Contract Ref: 733272
	Contract: Former Lombard Service Station, Bristol				




IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH3	1	50	2 (2)		---	1.50 to 7.70	90 secs	-	-	-	-	4.1	12.0	0.5	-	1	0
BH3	1	50	2 (2)		---	1.50 to 7.70	120 secs	-	-	-	-	4.1	12.1	0.4	-	1	0
BH3	1	50	2 (2)		---	1.50 to 7.70	180 secs	-	-	-	-	4.1	12.2	0.2	-	0	0
BH3	1	50	2 (2)		---	1.50 to 7.70	240 secs	-	-	-	-	4.1	12.3	0.2	-	0	0
BH3	1	50	2 (2)		---	1.50 to 7.70	300 secs	-	-	-	-	4.1	12.4	0.1	-	0	0
BH3	1	50	2 (2)		---	1.50 to 7.70	360 secs	-	-	-	-	4.1	12.5	0.1	-	0	0
BH3	1	50	2 (2)		---	1.50 to 7.70	420 secs	-	-	-	-	4.1	12.5	0.0	-	0	0
BH3	1	50	2 (2)		---	1.50 to 7.70	480 secs	-	-	-	-	4.2	12.6	0.0	-	0	0
BH3	1	50	2 (2)		---	1.50 to 7.70	540 secs	-	-	-	-	4.2	12.5	0.0	-	0	0
BH3	1	50	2 (2)		---	1.50 to 7.70	600 secs	-	-	-	-	4.2	12.2	0.1	-	0	0
BH3	1	50	2 (3)	7.70	7.92	1.50 to 7.70	07/11/2018 09:22:00	-	-	-	3.02	-	-	-	-	-	-
BH3	1	50	3	7.70	---	1.50 to 7.70	16/11/2018 09:00:00	1024	1024	0.0 _(I)	-	-	-	-	-	-	-
BH3	1	50	3		---	1.50 to 7.70	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
BH3	1	50	3 (2)	7.70	---	1.50 to 7.70	16/11/2018 09:02:00	-	-	-	-	0.0	0.0	20.9	1.7	0	0
BH3	1	50	3 (2)		---	1.50 to 7.70	15 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
BH3	1	50	3 (2)		---	1.50 to 7.70	30 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
BH3	1	50	3 (2)		---	1.50 to 7.70	60 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
BH3	1	50	3 (2)		---	1.50 to 7.70	90 secs	-	-	-	-	0.1	0.0	20.8	-	0	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	<i>J. E...</i>	17/01/19	<i>W...</i>	17/01/19	733272
Contract: Former Lombard Service Station, Bristol					Page: 9 of 19




IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH3	1	50	3 (2)		---	1.50 to 7.70	120 secs	-	-	-	-	0.1	0.0	20.8	-	0	0
BH3	1	50	3 (2)		---	1.50 to 7.70	180 secs	-	-	-	-	0.1	0.0	20.8	-	0	0
BH3	1	50	3 (2)		---	1.50 to 7.70	240 secs	-	-	-	-	0.1	0.0	20.8	-	0	0
BH3	1	50	3 (2)		---	1.50 to 7.70	300 secs	-	-	-	-	0.1	0.0	20.8	-	0	0
BH3	1	50	3 (3)	7.70	7.95	1.50 to 7.70	16/11/2018 09:08:00	-	-	-	2.97	-	-	-	-	-	-
BH3	1	50	4	7.70	---	1.50 to 7.70	13/12/2018 09:15:00	1013	1013	0.0 _(I)	-	-	-	-	-	-	-
BH3	1	50	4		---	1.50 to 7.70	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
BH3	1	50	4 (2)	7.70	---	1.50 to 7.70	13/12/2018 09:18:00	-	-	-	-	0.0	0.0	20.9	0.4	0	0
BH3	1	50	4 (2)		---	1.50 to 7.70	15 secs	-	-	-	-	2.7	0.0	20.0	-	0	0
BH3	1	50	4 (2)		---	1.50 to 7.70	30 secs	-	-	-	-	2.8	0.0	15.4	-	0	0
BH3	1	50	4 (2)		---	1.50 to 7.70	60 secs	-	-	-	-	2.8	0.0	13.7	-	0	0
BH3	1	50	4 (2)		---	1.50 to 7.70	90 secs	-	-	-	-	2.8	0.0	13.6	-	0	0
BH3	1	50	4 (2)		---	1.50 to 7.70	120 secs	-	-	-	-	2.8	0.0	13.5	-	0	0
BH3	1	50	4 (2)		---	1.50 to 7.70	180 secs	-	-	-	-	2.8	0.0	13.5	-	0	0
BH3	1	50	4 (2)		---	1.50 to 7.70	240 secs	-	-	-	-	2.8	0.0	13.5	-	0	0
BH3	1	50	4 (2)		---	1.50 to 7.70	300 secs	-	-	-	-	2.8	0.0	13.4	-	0	0
BH3	1	50	4 (3)	7.70	7.93	1.50 to 7.70	13/12/2018 09:24:00	-	-	-	2.72	-	-	-	-	-	-
Remarks: Samples taken.																	

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	<i>J. E...</i>	17/01/19	<i>W...</i>	17/01/19	733272
Contract: Former Lombard Service Station, Bristol					Page: 10 of 19




IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS1	1	40	1	6.00	---	1.50 to 6.00	01/11/2018 13:21:00	1007	1007	0.0 _(I)	-	-	-	-	-	-	-
WS1	1	40	1		---	1.50 to 6.00	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
WS1	1	40	1 (2)	6.00	---	1.50 to 6.00	01/11/2018 13:23:00	-	-	-	-	0.0	0.0	20.9	0.5	0	0
WS1	1	40	1 (2)		---	1.50 to 6.00	15 secs	-	-	-	-	0.6	0.0	20.8	-	0	0
WS1	1	40	1 (2)		---	1.50 to 6.00	30 secs	-	-	-	-	0.6	0.0	20.5	-	0	0
WS1	1	40	1 (2)		---	1.50 to 6.00	60 secs	-	-	-	-	0.7	0.0	20.5	-	0	0
WS1	1	40	1 (2)		---	1.50 to 6.00	90 secs	-	-	-	-	0.7	0.0	20.5	-	0	0
WS1	1	40	1 (2)		---	1.50 to 6.00	120 secs	-	-	-	-	0.7	0.0	20.5	-	0	0
WS1	1	40	1 (2)		---	1.50 to 6.00	180 secs	-	-	-	-	0.7	0.0	20.5	-	0	0
WS1	1	40	1 (2)		---	1.50 to 6.00	240 secs	-	-	-	-	0.7	0.0	20.5	-	0	0
WS1	1	40	1 (2)		---	1.50 to 6.00	300 secs	-	-	-	-	0.7	0.0	20.5	-	0	0
WS1	1	40	1 (3)	6.00	5.32	1.50 to 6.00	01/11/2018 13:29:00	-	-	-	1.92	-	-	-	-	-	-
WS1	1	40	2	6.00	---	1.50 to 6.00	07/11/2018 11:12:00	990	990	0.0 _(I)	-	-	-	-	-	-	-
WS1	1	40	2		---	1.50 to 6.00	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
WS1	1	40	2 (2)	6.00	---	1.50 to 6.00	07/11/2018 11:14:00	-	-	-	-	0.0	0.0	20.9	0.9	0	0
WS1	1	40	2 (2)		---	1.50 to 6.00	15 secs	-	-	-	-	0.4	0.0	20.8	-	0	0
WS1	1	40	2 (2)		---	1.50 to 6.00	30 secs	-	-	-	-	0.4	0.0	20.7	-	0	0
WS1	1	40	2 (2)		---	1.50 to 6.00	60 secs	-	-	-	-	0.4	0.0	20.7	-	0	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	<i>J. E...</i>	17/01/19	<i>W...</i>	17/01/19	733272
Contract: Former Lombard Service Station, Bristol					Page: 11 of 19




IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS1	1	40	2 (2)		---	1.50 to 6.00	90 secs	-	-	-	-	0.4	0.0	20.7	-	0	0
WS1	1	40	2 (2)		---	1.50 to 6.00	120 secs	-	-	-	-	0.4	0.0	20.6	-	0	0
WS1	1	40	2 (2)		---	1.50 to 6.00	180 secs	-	-	-	-	0.4	0.0	20.6	-	0	0
WS1	1	40	2 (2)		---	1.50 to 6.00	240 secs	-	-	-	-	0.4	0.0	20.7	-	0	0
WS1	1	40	2 (2)		---	1.50 to 6.00	300 secs	-	-	-	-	0.4	0.0	20.7	-	0	0
WS1	1	40	2 (3)	6.00	5.31	1.50 to 6.00	07/11/2018 11:20:00	-	-	-	2.32	-	-	-	-	-	-
WS1	1	40	3	6.00	---	1.50 to 6.00	16/11/2018 09:22:00	1024	1024	0.0 _(I)	-	-	-	-	-	-	-
WS1	1	40	3		---	1.50 to 6.00	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
WS1	1	40	3 (2)	6.00	---	1.50 to 6.00	16/11/2018 09:24:00	-	-	-	-	0.0	0.0	20.9	0.9	0	0
WS1	1	40	3 (2)		---	1.50 to 6.00	15 secs	-	-	-	-	0.2	0.0	20.9	-	0	0
WS1	1	40	3 (2)		---	1.50 to 6.00	30 secs	-	-	-	-	0.3	0.0	20.8	-	0	0
WS1	1	40	3 (2)		---	1.50 to 6.00	60 secs	-	-	-	-	0.3	0.0	20.7	-	0	0
WS1	1	40	3 (2)		---	1.50 to 6.00	90 secs	-	-	-	-	0.3	0.0	20.7	-	0	0
WS1	1	40	3 (2)		---	1.50 to 6.00	120 secs	-	-	-	-	0.3	0.0	20.7	-	0	0
WS1	1	40	3 (2)		---	1.50 to 6.00	180 secs	-	-	-	-	0.3	0.0	20.7	-	0	0
WS1	1	40	3 (2)		---	1.50 to 6.00	240 secs	-	-	-	-	0.3	0.0	20.8	-	0	0
WS1	1	40	3 (2)		---	1.50 to 6.00	300 secs	-	-	-	-	0.3	0.0	20.8	-	0	0
WS1	1	40	3 (3)	6.00	5.31	1.50 to 6.00	16/11/2018 09:30:00	-	-	-	1.99	-	-	-	-	-	-

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By <i>J. Evans</i>	Date 17/01/19	Checked By <i>Wanell</i>	Date 17/01/19	Contract Ref: 733272
	Contract: Former Lombard Service Station, Bristol				



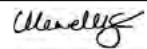


IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS1	1	40	4	6.00	---	1.50 to 6.00	13/12/2018 10:54:00	1014	1014	0.0 _(I)	-	-	-	-	-	-	-
WS1	1	40	4		---	1.50 to 6.00	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
WS1	1	40	4 (2)	6.00	---	1.50 to 6.00	13/12/2018 10:57:00	-	-	-	-	0.0	0.0	20.9	0.2	0	0
WS1	1	40	4 (2)		---	1.50 to 6.00	15 secs	-	-	-	-	0.2	0.0	20.8	-	0	0
WS1	1	40	4 (2)		---	1.50 to 6.00	30 secs	-	-	-	-	0.3	0.0	20.8	-	0	0
WS1	1	40	4 (2)		---	1.50 to 6.00	60 secs	-	-	-	-	0.3	0.0	20.7	-	0	0
WS1	1	40	4 (2)		---	1.50 to 6.00	90 secs	-	-	-	-	0.3	0.0	20.7	-	0	0
WS1	1	40	4 (2)		---	1.50 to 6.00	120 secs	-	-	-	-	0.3	0.0	20.7	-	0	0
WS1	1	40	4 (2)		---	1.50 to 6.00	180 secs	-	-	-	-	0.3	0.0	20.7	-	0	0
WS1	1	40	4 (2)		---	1.50 to 6.00	240 secs	-	-	-	-	0.3	0.0	20.7	-	0	0
WS1	1	40	4 (2)		---	1.50 to 6.00	300 secs	-	-	-	-	0.3	0.0	20.6	-	0	0
WS1	1	40	4 (3)	6.00	5.32	1.50 to 6.00	13/12/2018 11:03:00	-	-	-	1.74	-	-	-	-	-	-
			Remarks: Samples taken.														
WS3	1	40	1	4.00	---	0.50 to 4.00	01/11/2018 11:00:00	1006	1006	0.0 _(I)	-	-	-	-	-	-	-
WS3	1	40	1		---	0.50 to 4.00	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
WS3	1	40	1 (2)	4.00	---	0.50 to 4.00	01/11/2018 11:02:00	-	-	-	-	0.0	0.0	20.9	0.2	0	0
WS3	1	40	1 (2)		---	0.50 to 4.00	15 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
WS3	1	40	1 (2)		---	0.50 to 4.00	30 secs	-	-	-	-	0.1	0.0	20.9	-	0	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	 Contract:	17/01/19		17/01/19	733272
Former Lombard Service Station, Bristol					Page: 13 of 19



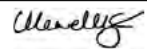


IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS3	1	40	1 (2)		---	0.50 to 4.00	60 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
WS3	1	40	1 (2)		---	0.50 to 4.00	90 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
WS3	1	40	1 (2)		---	0.50 to 4.00	120 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
WS3	1	40	1 (2)		---	0.50 to 4.00	180 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
WS3	1	40	1 (2)		---	0.50 to 4.00	240 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
WS3	1	40	1 (2)		---	0.50 to 4.00	300 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
WS3	1	40	1 (3)	4.00	4.04	0.50 to 4.00	01/11/2018 11:08:00	-	-	-	2.06	-	-	-	-	-	-
WS3	1	40	2	4.00	---	0.50 to 4.00	07/11/2018 10:43:00	990	990	0.0 _(I)	-	-	-	-	-	-	-
WS3	1	40	2		---	0.50 to 4.00	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
WS3	1	40	2 (2)	4.00	---	0.50 to 4.00	07/11/2018 10:45:00	-	-	-	-	0.6	0.0	20.9	0.3	0	0
WS3	1	40	2 (2)		---	0.50 to 4.00	15 secs	-	-	-	-	0.7	0.0	20.7	-	0	0
WS3	1	40	2 (2)		---	0.50 to 4.00	30 secs	-	-	-	-	0.3	0.0	20.5	-	0	0
WS3	1	40	2 (2)		---	0.50 to 4.00	60 secs	-	-	-	-	0.3	0.0	20.4	-	0	0
WS3	1	40	2 (2)		---	0.50 to 4.00	90 secs	-	-	-	-	0.3	0.0	20.3	-	0	0
WS3	1	40	2 (2)		---	0.50 to 4.00	120 secs	-	-	-	-	0.4	0.0	20.2	-	0	0
WS3	1	40	2 (2)		---	0.50 to 4.00	180 secs	-	-	-	-	0.4	0.0	20.2	-	0	0
WS3	1	40	2 (2)		---	0.50 to 4.00	240 secs	-	-	-	-	0.4	0.0	20.2	-	0	0
WS3	1	40	2 (2)		---	0.50 to 4.00	300 secs	-	-	-	-	0.4	0.0	20.1	-	0	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	 Contract:	17/01/19		17/01/19	733272
Former Lombard Service Station, Bristol					Page: 14 of 19




IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS3	1	40	2 (3)	4.00	4.02	0.50 to 4.00	07/11/2018 10:51:00	-	-	-	2.63	-	-	-	-	-	-
WS3	1	40	3	4.00	---	0.50 to 4.00	16/11/2018 09:59:00	1025	1025	0.0 _(I)	-	-	-	-	-	-	-
WS3	1	40	3		---	0.50 to 4.00	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
WS3	1	40	3 (2)	4.00	---	0.50 to 4.00	16/11/2018 10:01:00	-	-	-	-	0.0	0.0	20.9	0.3	0	0
WS3	1	40	3 (2)		---	0.50 to 4.00	15 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
WS3	1	40	3 (2)		---	0.50 to 4.00	30 secs	-	-	-	-	0.1	0.0	20.8	-	0	0
WS3	1	40	3 (2)		---	0.50 to 4.00	60 secs	-	-	-	-	0.1	0.0	20.8	-	0	0
WS3	1	40	3 (2)		---	0.50 to 4.00	90 secs	-	-	-	-	0.2	0.0	20.7	-	0	0
WS3	1	40	3 (2)		---	0.50 to 4.00	120 secs	-	-	-	-	0.2	0.0	20.7	-	0	0
WS3	1	40	3 (2)		---	0.50 to 4.00	180 secs	-	-	-	-	0.2	0.0	20.7	-	0	0
WS3	1	40	3 (2)		---	0.50 to 4.00	240 secs	-	-	-	-	0.2	0.0	20.7	-	0	0
WS3	1	40	3 (2)		---	0.50 to 4.00	300 secs	-	-	-	-	0.2	0.0	20.7	-	0	0
WS3	1	40	3 (3)	4.00	4.05	0.50 to 4.00	16/11/2018 10:07:00	-	-	-	1.50	-	-	-	-	-	-
WS3	1	40	4	4.00	---	0.50 to 4.00	13/12/2018 09:37:00	1014	1014	0.0 _(I)	-	-	-	-	-	-	-
WS3	1	40	4		---	0.50 to 4.00	120 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
WS3	1	40	4 (2)	4.00	---	0.50 to 4.00	13/12/2018 09:41:00	-	-	-	-	0.0	0.0	20.9	0.2	0	0
WS3	1	40	4 (2)		---	0.50 to 4.00	15 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
WS3	1	40	4 (2)		---	0.50 to 4.00	30 secs	-	-	-	-	0.1	0.0	20.8	-	0	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	<i>J. Evans</i>	17/01/19	<i>Wanell</i>	17/01/19	733272
Contract: Former Lombard Service Station, Bristol					Page: 15 of 19




IN-SITU GAS MONITORING RESULTS

	[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS3	1	40	4 (2)		---	0.50 to 4.00	60 secs	-	-	-	-	0.1	0.0	20.8	-	0	0
WS3	1	40	4 (2)		---	0.50 to 4.00	90 secs	-	-	-	-	0.1	0.0	20.8	-	0	0
WS3	1	40	4 (2)		---	0.50 to 4.00	120 secs	-	-	-	-	0.1	0.0	20.8	-	0	0
WS3	1	40	4 (2)		---	0.50 to 4.00	180 secs	-	-	-	-	0.1	0.0	20.8	-	0	0
WS3	1	40	4 (2)		---	0.50 to 4.00	240 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
WS3	1	40	4 (2)		---	0.50 to 4.00	300 secs	-	-	-	-	0.1	0.0	20.9	-	0	0
WS3	1	40	4 (3)	4.00	4.05	0.50 to 4.00	13/12/2018 09:47:00	-	-	-	1.34	-	-	-	-	-	-
Remarks: Samples taken.																	
WS4	1	40	1	2.00	---	0.50 to 2.00	01/11/2018 10:25:00	1006	1006	0.0 _(I)	-	-	-	-	-	-	-
WS4	1	40	1		---	0.50 to 2.00	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
WS4	1	40	1 (2)	2.00	---	0.50 to 2.00	01/11/2018 10:27:00	-	-	-	-	0.0	0.0	20.9	1.7	0	0
WS4	1	40	1 (2)		---	0.50 to 2.00	15 secs	-	-	-	-	0.6	0.0	20.6	-	1	0
WS4	1	40	1 (2)		---	0.50 to 2.00	30 secs	-	-	-	-	0.6	0.0	19.8	-	0	0
WS4	1	40	1 (2)		---	0.50 to 2.00	60 secs	-	-	-	-	0.6	0.0	19.5	-	0	0
WS4	1	40	1 (2)		---	0.50 to 2.00	90 secs	-	-	-	-	0.6	0.0	19.4	-	0	0
WS4	1	40	1 (2)		---	0.50 to 2.00	120 secs	-	-	-	-	0.6	0.0	19.4	-	0	0
WS4	1	40	1 (2)		---	0.50 to 2.00	180 secs	-	-	-	-	0.6	0.0	19.4	-	0	0
WS4	1	40	1 (2)		---	0.50 to 2.00	240 secs	-	-	-	-	0.6	0.0	19.4	-	0	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	<i>J. E...</i>	17/01/19	<i>W...</i>	17/01/19	733272
Contract: Former Lombard Service Station, Bristol					Page: 16 of 19



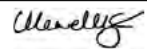


IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS4	1	40	1 (2)		---	0.50 to 2.00	300 secs	-	-	-	-	0.5	0.0	19.4	-	0	0
WS4	1	40	1 (2)		---	0.50 to 2.00	360 secs	-	-	-	-	0.5	0.0	19.4	-	0	0
WS4	1	40	1 (2)		---	0.50 to 2.00	420 secs	-	-	-	-	0.5	0.0	19.4	-	0	0
WS4	1	40	1 (3)	2.00	1.60	0.50 to 2.00	01/11/2018 10:35:00	-	-	-	1.33	-	-	-	-	-	-
WS4	1	40	2	2.00	---	0.50 to 2.00	07/11/2018 08:55:00	990	990	0.0 _(l)	-	-	-	-	-	-	-
WS4	1	40	2		---	0.50 to 2.00	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
WS4	1	40	2 (2)	2.00	---	0.50 to 2.00	07/11/2018 08:57:00	-	-	-	-	0.0	0.0	20.9	1.5	0	0
WS4	1	40	2 (2)		---	0.50 to 2.00	15 secs	-	-	-	-	0.2	0.0	20.6	-	0	0
WS4	1	40	2 (2)		---	0.50 to 2.00	30 secs	-	-	-	-	0.2	0.0	20.1	-	0	0
WS4	1	40	2 (2)		---	0.50 to 2.00	60 secs	-	-	-	-	0.2	0.0	19.8	-	0	0
WS4	1	40	2 (2)		---	0.50 to 2.00	90 secs	-	-	-	-	0.2	0.0	19.7	-	0	0
WS4	1	40	2 (2)		---	0.50 to 2.00	120 secs	-	-	-	-	0.2	0.0	19.7	-	0	0
WS4	1	40	2 (2)		---	0.50 to 2.00	180 secs	-	-	-	-	0.2	0.0	19.8	-	0	0
WS4	1	40	2 (2)		---	0.50 to 2.00	240 secs	-	-	-	-	0.2	0.0	19.8	-	0	0
WS4	1	40	2 (2)		---	0.50 to 2.00	300 secs	-	-	-	-	0.2	0.0	19.8	-	0	0
WS4	1	40	2 (3)	2.00	1.60	0.50 to 2.00	07/11/2018 09:03:00	-	-	-	0.91	-	-	-	-	-	-
WS4	1	40	3	2.00	---	0.50 to 2.00	16/11/2018 09:11:00	1024	1024	0.0 _(l)	-	-	-	-	-	-	-
WS4	1	40	3		---	0.50 to 2.00	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	 Contract:	17/01/19		17/01/19	733272
Former Lombard Service Station, Bristol					Page: 17 of 19



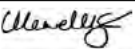


IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS4	1	40	3 (2)	2.00	---	0.50 to 2.00	16/11/2018 09:13:00	-	-	-	-	0.0	0.0	20.9	1.4	0	0
WS4	1	40	3 (2)		---	0.50 to 2.00	15 secs	-	-	-	-	0.2	0.0	20.6	-	0	0
WS4	1	40	3 (2)		---	0.50 to 2.00	30 secs	-	-	-	-	0.3	0.0	19.6	-	0	0
WS4	1	40	3 (2)		---	0.50 to 2.00	60 secs	-	-	-	-	0.3	0.0	19.4	-	0	0
WS4	1	40	3 (2)		---	0.50 to 2.00	90 secs	-	-	-	-	0.3	0.0	19.3	-	0	0
WS4	1	40	3 (2)		---	0.50 to 2.00	120 secs	-	-	-	-	0.3	0.0	19.3	-	0	0
WS4	1	40	3 (2)		---	0.50 to 2.00	180 secs	-	-	-	-	0.3	0.0	19.3	-	0	0
WS4	1	40	3 (2)		---	0.50 to 2.00	240 secs	-	-	-	-	0.3	0.0	19.3	-	0	0
WS4	1	40	3 (2)		---	0.50 to 2.00	300 secs	-	-	-	-	0.3	0.0	19.3	-	0	0
WS4	1	40	3 (3)	2.00	1.60	0.50 to 2.00	16/11/2018 09:19:00	-	-	-	1.28	-	-	-	-	-	-
WS4	1	40	4	2.00	---	0.50 to 2.00	13/12/2018 10:12:00	1014	1014	0.0 _(l)	-	-	-	-	-	-	-
WS4	1	40	4		---	0.50 to 2.00	60 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-
WS4	1	40	4 (2)	2.00	---	0.50 to 2.00	13/12/2018 10:18:00	-	-	-	-	0.0	0.0	20.9	0.7	0	0
WS4	1	40	4 (2)		---	0.50 to 2.00	15 secs	-	-	-	-	1.6	0.0	20.0	-	0	0
WS4	1	40	4 (2)		---	0.50 to 2.00	30 secs	-	-	-	-	1.6	0.0	16.6	-	0	0
WS4	1	40	4 (2)		---	0.50 to 2.00	60 secs	-	-	-	-	1.7	0.0	15.7	-	0	0
WS4	1	40	4 (2)		---	0.50 to 2.00	90 secs	-	-	-	-	1.7	0.0	15.6	-	0	0
WS4	1	40	4 (2)		---	0.50 to 2.00	120 secs	-	-	-	-	1.7	0.0	15.6	-	0	0

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

	STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By 	Date 17/01/19	Checked By 	Date 17/01/19	Contract Ref: 733272
	Contract: Former Lombard Service Station, Bristol					



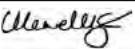


IN-SITU GAS MONITORING RESULTS

[Pressures]	Previous	During	Start	End	Equipment Used & Remarks

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
WS4	1	40	4 (2)		---	0.50 to 2.00	180 secs	-	-	-	-	1.6	0.0	15.5	-	0	0
WS4	1	40	4 (2)		---	0.50 to 2.00	240 secs	-	-	-	-	1.6	0.0	15.5	-	0	0
WS4	1	40	4 (2)		---	0.50 to 2.00	300 secs	-	-	-	-	1.6	0.0	15.5	-	0	0
WS4	1	40	4 (3)	2.00	1.61	0.50 to 2.00	13/12/2018 10:24:00	-	-	-	1.25	-	-	-	-	-	-
Remarks: Samples taken.																	

Key: I = Initial, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

	STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
		 Contract:	17/01/19	 Former Lombard Service Station, Bristol	17/01/19	733272
						Page: 19 of 19



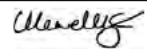


IN-SITU WATER MONITORING RESULTS

	<u>Weather</u>	<u>Ground Conditions</u>	<u>Wind Conditions</u>	<u>Air Temperature (°C)</u>	<u>Equipment Used & Remarks</u>
Round 2	Rain	Wet	Light	11	

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	pH	Redox (mV)	Conductivity (uS/cm)	Temperature (°C)	Dissolved Oxygen (mg/l)	Remarks
BH1	1	50	2 / 1	7.70	7.74	2.00 to 7.70	07/11/2018 12:04	2.37	7.85	128	1525	13.8	1.7	
BH1	1	50	2 / 1				07/11/2018 12:07	2.37	7.76	113	1511	14.0	0.0	
BH1	1	50	2 / 1				07/11/2018 12:10	2.37	7.75	112	1506	14.0	0.0	
BH1	1	50	2 / 1				07/11/2018 12:13	2.37	7.74	104	1501	14.1	0.0	
BH1	1	50	2 / 1				07/11/2018 12:16	2.37	7.73	100	1492	14.2	0.0	
BH2	1	50	2 / 1	7.30	7.63	2.30 to 7.30	07/11/2018 12:57	3.00	7.67	-31	1137	13.2	0.9	
BH2	1	50	2 / 1				07/11/2018 13:00	3.00	7.49	-42	1120	13.4	0.0	
BH2	1	50	2 / 1				07/11/2018 13:03	3.00	7.48	-47	1118	13.4	0.0	
BH2	1	50	2 / 1				07/11/2018 13:06	3.00	7.41	-47	1116	13.4	0.0	
BH2	1	50	2 / 1				07/11/2018 13:09	3.00	7.37	-55	1112	13.5	0.0	
BH3	1	50	2 / 1	7.70	7.93	1.50 to 7.70	07/11/2018 10:20	3.03	6.88	155	1276	14.2	0.1	
BH3	1	50	2 / 1				07/11/2018 10:23	3.03	6.90	155	1252	14.2	0.0	
BH3	1	50	2 / 1				07/11/2018 10:26	3.03	6.91	156	1244	14.3	0.0	
BH3	1	50	2 / 1				07/11/2018 10:29	3.03	6.92	150	1272	14.3	0.0	
BH3	1	50	2 / 1				07/11/2018 10:32	3.03	6.95	145	1268	14.3	0.0	

Key: NDA denotes 'no data available'.



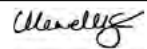

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	 Contract:	17/01/19		17/01/19	733272
Former Lombard Service Station, Bristol					Page: 1 of 2



IN-SITU WATER MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	pH	Redox (mV)	Conductivity (uS/cm)	Temperature (°C)	Dissolved Oxygen (mg/l)	Remarks
WS1	1	40	2 / 1	6.00	5.31	1.50 to 6.00	07/11/2018 12:24	2.32	7.84	328	1459	12.6	1.2	General Remarks: Slightly cloudy, no odour.
WS1	1	40	2 / 1				07/11/2018 12:25	2.32	7.76	333	1054	13.2	1.3	
WS1	1	40	2 / 1				07/11/2018 13:05	2.32	7.30	329	2023	13.2	0.6	
WS1	1	40	2 / 1				07/11/2018 13:08	2.32	7.30	303	1986	13.9	0.3	
WS1	1	40	2 / 1				07/11/2018 13:11	2.32	7.28	283	1922	14.2	0.5	
WS1	1	40	2 / 1				07/11/2018 13:14	2.32	7.23	273	1947	14.2	0.3	
WS3	1	40	2 / 1	4.00	4.02	0.50 to 4.00	07/11/2018 11:20	2.63	7.22	149	1978	13.5	1.1	
WS3	1	40	2 / 1				07/11/2018 11:23	2.63	7.19	161	1671	14.4	0.5	
WS3	1	40	2 / 1				07/11/2018 11:26	2.63	7.17	172	1641	14.5	0.4	
WS3	1	40	2 / 1				07/11/2018 11:29	2.63	7.11	161	1783	14.3	0.5	
WS3	1	40	2 / 1				07/11/2018 11:32	2.63	7.15	157	1622	14.1	0.7	
WS4	1	40	2 / 1	2.00	1.60	0.50 to 2.00	07/11/2018 09:43	0.91	8.04	336	515	12.7	6.7	General Remarks: Cloudy appearance, no odour.
WS4	1	40	2 / 1				07/11/2018 09:46	0.91	8.24	326	380	12.8	7.0	
WS4	1	40	2 / 1				07/11/2018 09:49	0.91	8.29	321	380	12.8	7.2	
WS4	1	40	2 / 1				07/11/2018 09:52	0.91	8.32	319	378	12.8	7.2	
WS4	1	40	2 / 1				07/11/2018 09:55	0.91	8.34	318	378	12.7	7.1	
WS4	1	40	2 / 1				07/11/2018 09:58	0.91	8.38	316	374	12.7	7.1	

Key: NDA denotes 'no data available'.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:	
	 Contract:	17/01/19		17/01/19	733272	
Former Lombard Service Station, Bristol					Page: 2 of 2	

APPENDIX F - CALIBRATION CERTIFICATES

- (i) SPT Calibration Records
- (ii) Gas Analyser Calibration Records
- (iii) Photo ionisation Detector (PID) Calibration Records

SPT Calibration Report

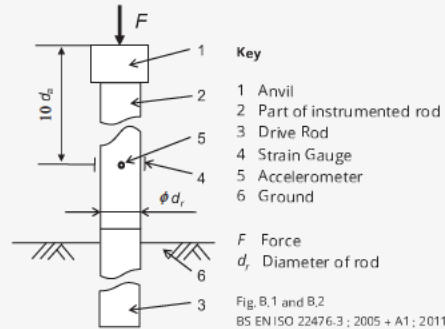
Hammer Energy Measurement Report

Type of Hammer SPT HAMMER
Client STRUCTURAL SOILS
Test No EQU2108

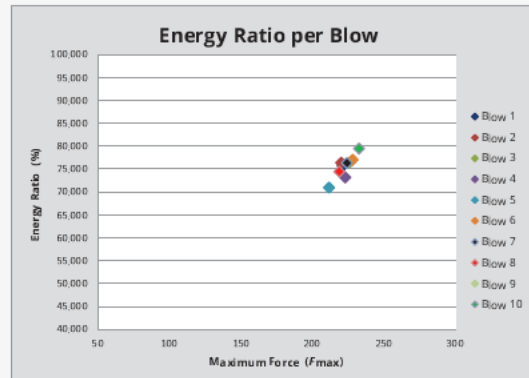
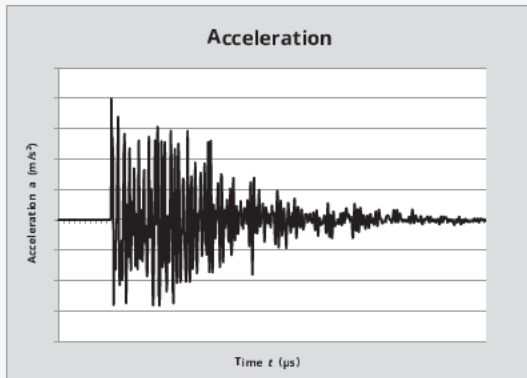
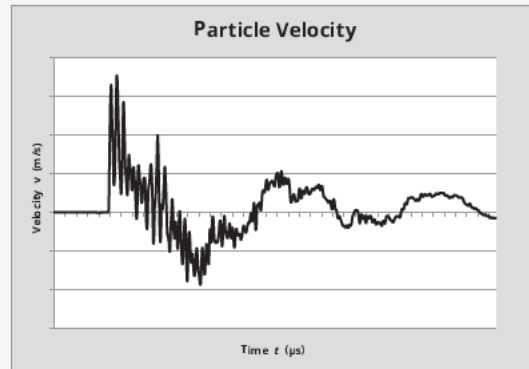
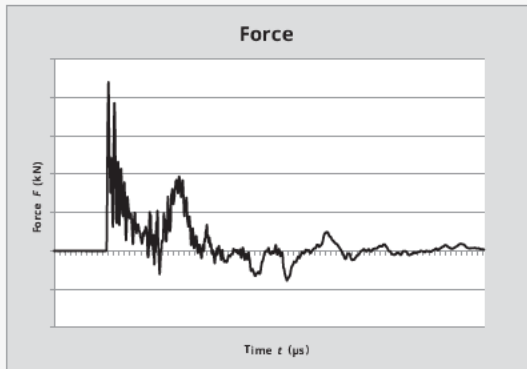
Test Depth (m) 8.70
Mass of hammer $m = 63.5\text{kg}$
Falling height $h = 0.76\text{m}$
 $E_{\text{theor}} = m \times g \times h = 473\text{J}$

Characteristics of the instrumented rod

Diameter $d_r = 0.052\text{ m}$
Length of instrumented rod 0.558 m
Area $A = 11.61\text{ cm}^2$
Modulus $E_o = 206843\text{ MPa}$



DATE OF TEST	VALID UNTIL	HAMMER ID
28/06/2018	28/06/2019	EQU085



Observations:
1.

$E_{\text{meas}} = 0.356\text{ kN-m}$
 $E_{\text{theor}} = 0.473\text{ kN-m}$

Energy Ratio = $\frac{E_{\text{meas}}}{E_{\text{theor}}}$ **75.30%**
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Equipe SPT Analyzer Operators: AF

Prepared by: *[Signature]* Checked by: *[Signature]* Date: 05/07/2018

SPT Calibration Report

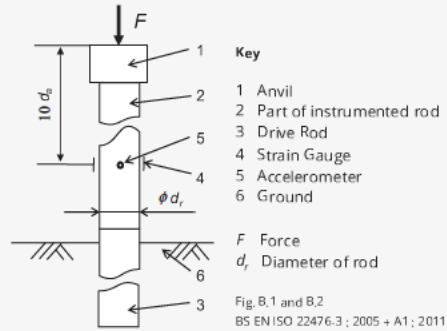
Hammer Energy Measurement Report

Type of Hammer: TERRIER
Client: STRUCTURAL SOILS
Test No: EQU2028

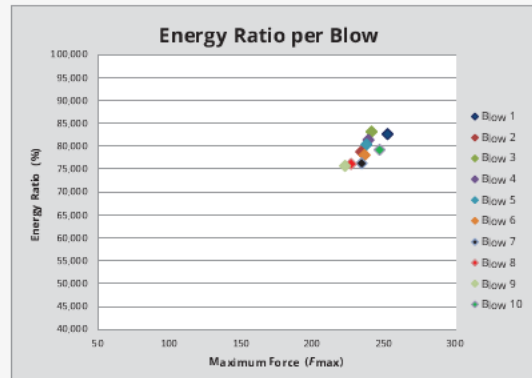
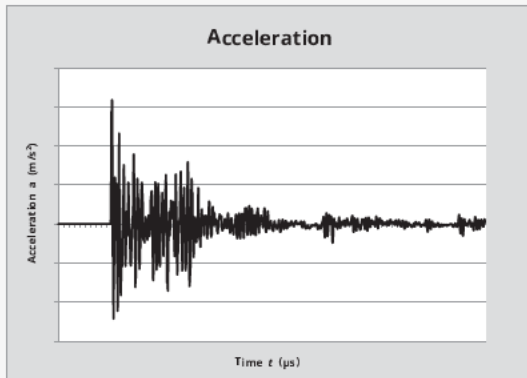
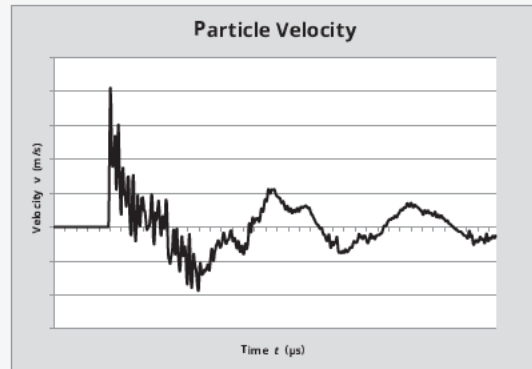
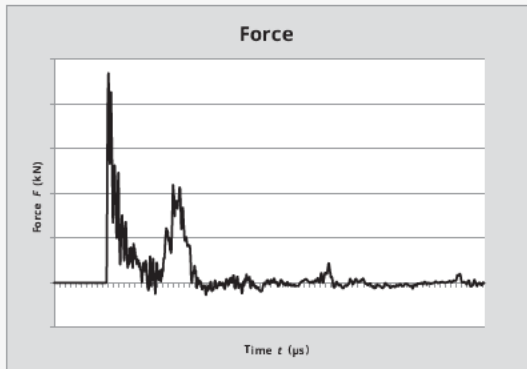
Test Depth (m): 8.70
Mass of hammer: $m = 63.5\text{kg}$
Falling height: $h = 0.76\text{m}$
 $E_{\text{theor}} = m \times g \times h = 473\text{J}$

Characteristics of the instrumented rod

Diameter: $d_r = 0.052\text{ m}$
Length of instrumented rod: 0.558 m
Area: $A = 11.61\text{ cm}^2$
Modulus: $E_o = 206843\text{ MPa}$



DATE OF TEST	VALID UNTIL	HAMMER ID
23/01/2018	23/01/2019	DT15187



Observations:
1.

$E_{\text{meas}} = 0.376\text{ kN-m}$
 $E_{\text{theor}} = 0.473\text{ kN-m}$

Energy Ratio = $\frac{E_{\text{meas}}}{E_{\text{theor}}}$ **79.44%**
© Copyright 2018

Equipe SPT Analyzer Operators: JML

Prepared by: *[Signature]* Checked by: *[Signature]* Date: 23/01/2018

ISSUED BY: GEOTECHNICAL INSTRUMENTS (UK) LTD

Customer Name: Structural Soils Limited

Model: GA5000

Part Number: GA5KB0B0-101

Serial Number: G503249

Date of Service: 28-Aug-2018

Service Engineer: Mustafa Ghalaboun

Calibration Engineer: Suk Balrey

Verification / Approved By: Jeremy Dunn

Signature:

Reason for Return (inc. Customer Comments):

Returned for full service and calibration

Service Comments/Feedback:

This instrument was tested against known certified gas values and the user calibration was seen to be worse than the factory calibration for the following channels: CO2 . Common reasons for this are an out of date or poor user calibration. Regular user calibrations carried out in accordance with our operating manual will help to optimise performance. For further information on user calibration please visit the FAQ section of our website.

Thank you for returning your gas analyser to the Geotech Service Centre for full service and calibration. We are pleased to inform you that the analyser was received and fully assessed by one of our experienced Service Engineers and no significant faults or issues were observed during the assessment. Our extensive service was carried out, and any necessary components replaced. The analyser has successfully passed all of our rigorous testing and quality checks and has been calibrated using our bespoke, state of the art calibration facility. For further information about how to get the best use from your instrument please visit our YouTube channel <http://www.youtube.com/GeotechTV> and on our Website <http://www.geotechuk.com>

The O2 electrochemical sensor has been replaced due to it being over 3 years old in accordance with the manufacturer's recommendations, and also as a proactive measure based on our experience of the typical lifetime of this type of sensor.

We have replaced the battery because it is over 2 years old. This is in accordance to the battery cell manufacturer's recommendation.

If you require any further assistance with your instrument please email our Technical Support Team at technical@geotech.co.uk or call us on +44 1926 338111 (Monday to Thursday 08.30 - 17.00 & Friday 08.30 - 15.30) UK time zone.

Next Service Due: 21-Feb-2019

17025

Our ISO accreditation for our customised auto-calibration facilities

5

Number of days we aim to complete your service within

50

Number of checks instruments are subject to when serviced

65

Number of countries from which we service instruments/ accessories each year

7,384

Number of calibrations completed in last 12 months

340

Minimum number of service instruments we process each month

25

Cost (in £) of fully insured analyser collection for our UK customers

ISSUED BY: GEOTECHNICAL INSTRUMENTS (UK) LTD

17025

Our ISO accreditation for our customised auto-calibration facilities

5

Number of days we aim to complete your service within

50

Number of checks instruments are subject to when serviced

65

Number of countries from which we service instruments/accessories each year

7,384

Number of calibrations completed in last 12 months

340

Minimum number of service instruments we process each month

25

Cost (in £) of fully insured analyser collection for our UK customers

ISSUED BY: GEOTECHNICAL INSTRUMENTS (UK) LTD

Customer: Structural Soils Limited
Spring Lodge 172 Chester Road Helsby
Frodsham Cheshire WA6 0AR UNITED KINGDOM

Description: Gas Analyser

Model: GA5000

Serial Number: G503249

UKAS Accredited results:

Results after adjustment :

Methane (CH ₄)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	5.0	0.41
15.0	15.0	0.64
50.0	49.1	0.94

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.43
15.0	14.9	0.70
50.0	50.0	1.1

Oxygen (O ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
21.0	21.1	0.31

The inwards assessment was carried out 02-Aug-2018.

The maximum adjustment is larger than the inwards assessment uncertainty.

Inwards assessment data is available if requested.

All concentrations are molar.

CH₄, CO₂ readings recorded at : 33.2 °C ± 2.5 °C

O₂ readings recorded at : 24.2 °C ± 2.5 °C

Barometric Pressure : 1011 mbar ± 4 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:99 IGC Instance:99

Page 1 of 2 | LP015GIUKAS-2.4

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	Instrument Reading
1011	1010

Additional Gas Cells		
Gas	Certified Gas (ppm)	Instrument Reading (ppm)
CO	507	507
H ₂ S	50.9	51

Internal Flow	
Applied (l/hr)	Instrument Reading (l/hr)
5.0	5.0
10.0	10.0

Date of Issue : 28-Aug-2018

Approved by Signatory

Jeremy Dunn

Laboratory Inspection



This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:99 IGC Instance:99

Page 2 of 2 | LP015GIUKAS-2.4

CALIBRATION CERTIFICATE



Date of Calibration: - 15th June 2018

Certificate Number: - 242812

Calibrated by: - J Boyce

Signed: - 

Customer: - Structural Soils

Description: - Tiger

Manufacturer: - ION Science Ltd

Type Number: - N/A

Serial Number: - T-107655

Service Due date: - June 2019

This instrument has been factory calibrated to fully documented procedures in accordance with our ISO 9001:2008 Quality Management System.

Measurement standards are derived from volumetric and time sources which have been calibrated at an accredited laboratory traceable to National or International standards. The following list indicates the serial numbers of equipment used during the calibration procedure.

BAR02	C9081/A11352			
-------	--------------	--	--	--

¹ Gas mixtures prepared using equipment traceable to N.P.L. standards against Suppliers Certificate No

The instrument has been calibrated at a temperature of $19.9^{\circ}\text{C} \pm 0.25^{\circ}\text{C}$ and a barometric pressure of $1013.1 \text{ mbar} \pm 2 \text{ mbar}$.

ION Science hereby certify that on the day of calibration the instrument was working according to the manufacturer's original sales specification as checked by the calibration procedure, unless otherwise stated.

Copies of this certificate may only be reproduced in full.

Calibrations are valid as certified only on date of Calibration. For correct instrument operation please see the User Manual.

RESULTS ON RECEIPT

Applied Concentration	Instrument Indication
102.0 ppm Isobutylene	105.7 ppm Isobutylene

RESULTS AFTER ADJUSTMENT

Applied Concentration	Instrument Indication
102.0 ppm Isobutylene	102.3 ppm Isobutylene

The estimated applied gas uncertainty is $\pm 2.0\%$

Comments: - Main PCB replaced prior to calibration.

PD-FM-086-07

Unrivalled Gas Detection.

ION Science Ltd, The Hive, Butts Lane, Fowlmere, Cambs, SG8 7SL, UK

T +44 (0)1763 208503

E info@ionscience.com

W ionscience.com

APPENDIX G - DESK STUDY DATA

- (i) Landmark Environmental Data sheets
- (ii) Historical Mapping
- (iii) Petroleum License Search

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

180883921_1_1

Customer Reference:

733272/AW

National Grid Reference:

358600, 171800

Slice:

A

Site Area (Ha):

0.05

Search Buffer (m):

1000

Site Details:

Lombard Service Station
Brook Road
Southville
BRISTOL
BS3 1AJ

Client Details:

S Pond
Structural Soils Ltd
The Old School House
Stillhouse Lane, Bedminster
Bristol
BS3 4EB

Prepared For:

Sand Lane Construction Ltd

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	43
Hazardous Substances	46
Geological	47
Industrial Land Use	51
Sensitive Land Use	-
Data Currency	97
Data Suppliers	103
Useful Contacts	104

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1		Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		11	13	31
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 15		1	5	10
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 17		Yes		
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes	pg 17				1
Registered Radioactive Substances	pg 17			13	
River Quality	pg 19			1	1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 20				1
Water Abstractions	pg 20				19 (*38)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 34	Yes	n/a	n/a	n/a
Drift Deposits	pg 34	1	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 34	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 34	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 34	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 35		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 36		11	12	27

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 43				4
Local Authority Landfill Coverage	pg 43	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 43		1	1	2
Potentially Infilled Land (Water)	pg 44				4
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 44				3
Registered Waste Treatment or Disposal Sites	pg 45				2
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 46				1
Planning Hazardous Substance Consents	pg 46				1
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 47	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 47	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 49				3
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 49	Yes	n/a	n/a	n/a
Mining Instability	pg 49	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 49				1
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 50		Yes	n/a	n/a
Potential for Compress ible Ground Stability Hazards	pg 50	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 50	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 50	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 50	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 51	2	33	81	183
Fuel Station Entries	pg 76			2	4
Points of Interest - Commercial Services	pg 76	1	9	34	54
Points of Interest - Education and Health	pg 84		1	5	1
Points of Interest - Manufacturing and Production	pg 85		2	32	49
Points of Interest - Public Infrastructure	pg 92		2	7	18
Points of Interest - Recreational and Environmental	pg 94			12	11
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	37	1	358599 171850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	40	1	358550 171800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	82	1	358600 171700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	187	1	358599 172000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	194	1	358450 171650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	237	1	358599 172050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	285	1	358650 171500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (S)	345	1	358700 171450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	382	1	358600 171400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	384	1	358650 171400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	404	1	359000 171900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	413	1	358900 172100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (S)	432	1	358600 171350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	438	1	359000 172000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A17SE (NW)	480	1	358250 172150
1	Discharge Consents Operator: Asda Superstore Property Type: MAKING OF FOOD PRODUCTS/DAIRY Location: Asda Superstore, East Street, Bedminster, Bristol, Bs3 4jy Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 100161 Permit Version: 1 Effective Date: 24 h March 1997 Issued Date: 24 h March 1997 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Site Drainage Discharge Environment: Freshwater Stream/River Receiving Water: River Malago Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	71	2	358660 171855

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>Discharge Consents</p> <p>Operator: Asda Superstore Property Type: SHOP INCL GARDEN CENTRE/RETAIL TRADE(NOT MOTOR VEHICLE) Location: Asda Superstore (Bedminster), Regent/New Charlotte Sts, Bedminster, Bristol, Bs3 4jy Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 010294 Permit Version: 1 Effective Date: 1st July 1987 Issued Date: Not Supplied Revocation Date: 1st October 1996 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Malago, Culverted R Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 10m</p>	A13NE (NE)	74	2	358660 171860
2	<p>Discharge Consents</p> <p>Operator: Asda Superstore Property Type: SHOP INCL GARDEN CENTRE/RETAIL TRADE(NOT MOTOR VEHICLE) Location: Asda Superstore (Bedminster), Regent/New Charlotte Sts, Bedminster, Bristol, Bs3 4jy Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 010294 Permit Version: 1 Effective Date: 1st July 1987 Issued Date: Not Supplied Revocation Date: 1st October 1996 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Malago, Culverted R Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 10m</p>	A13NE (NE)	156	2	358750 171870
2	<p>Discharge Consents</p> <p>Operator: Asda Superstore Property Type: MAKING OF FOOD PRODUCTS/DAIRY Location: Asda Superstore, East Street, Bedminster, Bristol, Bs3 4jy Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 100161 Permit Version: 1 Effective Date: 24 h March 1997 Issued Date: 24 h March 1997 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: River Malago Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A13NE (NE)	159	2	358755 171865
2	<p>Discharge Consents</p> <p>Operator: Asda Superstore Property Type: Retail Distribution Location: Asda Superstore (Bedminster), Regent/New Charlotte Sts, Bedminster, Bristol, Bs3 4jy Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 010294 Permit Version: 1 Effective Date: 1st July 1987 Issued Date: Not Supplied Revocation Date: 1st October 1996 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Malago, Culverted R Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m</p>	A13NE (E)	162	2	358760 171860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Cumberland Road S S O(Bristol), Bristol, Avon Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 010176 Permit Version: 1 Effective Date: 1st February 1986 Issued Date: Not Supplied Revocation Date: 31st December 1993 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Avon,River(Tidal) Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6) Positional Accuracy: Located by supplier to within 100m</p>	A13NW (N)	238	2	358540 172045
3	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Broad Quay Cso, Broad Quay, City Centre, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 100456 Permit Version: 1 Effective Date: 9th February 1998 Issued Date: 9th February 1998 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Avon Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A13NW (N)	243	2	358570 172055
3	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Cumberland Road S S O(Bristol), Bristol, Avon Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 010113 Permit Version: 1 Effective Date: 22nd January 1985 Issued Date: Not Supplied Revocation Date: 14 h February 1996 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Avon Status: Consent revoked: Discharge ceased (Section 37(1)) Positional Accuracy: Located by supplier to within 100m</p>	A13NW (N)	243	2	358540 172050
3	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Broad Quay Outfall, Bristol, Broad Quay, Southville, Bristol, Bs1 4da Authority: Environment Agency, South West Region Catchment Area: Frome (Bristol) Reference: 103054 Permit Version: 1 Effective Date: 22nd December 2005 Issued Date: 27 h July 2005 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Avon(S) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A13NW (N)	248	2	358570 172060

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Cumberland Cso, Near Swing Bridge, Cumberland Road, Bristol Central Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 101080 Permit Version: 1 Effective Date: 25 h April 2000 Issued Date: 4th May 2000 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: (S) Culverted River Frome Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A13NW (N)	248	2	358570 172060
3	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Cumberland Cso, Cumberland Road, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 021595 Permit Version: 1 Effective Date: 15 h October 1987 Issued Date: Not Supplied Revocation Date: 25 h April 2000 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Bristol Avon Status: Deemed Consent - 1986 Variation Positional Accuracy: Located by supplier to within 100m</p>	A13NW (N)	248	2	358570 172060
3	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Clare Street Cso, Junction Wi h Broad Quay, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 101081 Permit Version: 1 Effective Date: 25 h April 2000 Issued Date: 4th May 2000 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: (S) Culverted River Frome Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A13NW (N)	268	2	358570 172080
4	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Off Coronation Road, Southville, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 021601 Permit Version: 1 Effective Date: 15 h October 1987 Issued Date: Not Supplied Revocation Date: 7th January 2015 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Avon (E) Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 100m</p>	A13NE (NE)	308	2	358810 172040

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Outside 1 Coronation Road, Bristol, Bs3 1aa Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011274 Permit Version: 1 Effective Date: 12 h September 1989 Issued Date: Not Supplied Revocation Date: 26 h July 2004 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Malago Status: Application refused - 1961 Rivers (Prevention of Pollution) Act Positional Accuracy: Located by supplier to within 100m</p>	A13NE (NE)	370	2	358910 172020
5	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Coronation Road, Southville, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 021593 Permit Version: 1 Effective Date: 15 h October 1987 Issued Date: Not Supplied Revocation Date: 25 h April 2000 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Bristol Avon Status: Deemed Consent - 1986 Variation Positional Accuracy: Located by supplier to within 100m</p>	A13NE (NE)	392	2	358930 172030
6	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: East Street Cso, Malago, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011270 Permit Version: 1 Effective Date: 12 h September 1989 Issued Date: Not Supplied Revocation Date: 31st May 2005 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Malago Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m</p>	A8NW (SW)	415	2	358330 171460
7	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Commercial Road Cso, Near Bedminster Bridge, Bristol, Bs1 6tg Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 102830 Permit Version: 1 Effective Date: 1st April 2005 Issued Date: 16 h March 2005 Revocation Date: 30 h March 2017 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Avon (E) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A14NW (NE)	420	2	358950 172050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Commercial Road Cso, Near Bedminster Bridge, Bristol, Bs1 6tg Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 102830 Permit Version: 2 Effective Date: 31st March 2017 Issued Date: 15 h March 2017 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Saline Estuary Environment: Receiving Water: River Avon (Estuarine) Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A14NW (NE)	421	2	358950 172053
7	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Commercial Road Cso, Near Bedminster Bridge, Bristol, Bs1 6tg Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 101096 Permit Version: 1 Effective Date: 25 h April 2000 Issued Date: 5th May 2000 Revocation Date: 31st March 2005 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Saline Estuary Environment: Receiving Water: (E) River Avon Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m</p>	A14NW (NE)	426	2	358950 172060
7	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bedminster Bridge Sso, Commercial Road, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 021592 Permit Version: 1 Effective Date: 15 h October 1987 Issued Date: Not Supplied Revocation Date: 25 h April 2000 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Bristol Avon Status: Deemed Consent - 1986 Variation Positional Accuracy: Located by supplier to within 100m</p>	A14NW (NE)	426	2	358950 172060
7	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bedminster Bridge Sso, Commercial Road, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 010175 Permit Version: 1 Effective Date: 1st February 1986 Issued Date: Not Supplied Revocation Date: 31st December 1993 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Avon,River(Tidal) Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6) Positional Accuracy: Located by supplier to within 100m</p>	A14NW (NE)	428	2	358960 172050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Commercial Road, Near Wapping House, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011218 Permit Version: 1 Effective Date: 12 h September 1989 Issued Date: Not Supplied Revocation Date: 25 h April 2000 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Bristol Avon/Floating Harbour Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 100m</p>	A14NW (NE)	434	2	358960 172060
8	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bedminster Storm Overflow Jcn North St & Merrywood Rd, Bedminster, Bristol, Avon, Bs3 1hw Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 021514 Permit Version: 1 Effective Date: 23rd August 1971 Issued Date: Not Supplied Revocation Date: 31st March 2002 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Avon (S) Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A12SE (SW)	421	2	358240 171550
9	<p>Discharge Consents</p> <p>Operator: Lloyds Bank Plc Property Type: CONSTRUCTION OF BUILDINGS Location: Lloyds Bank Development, Canons Marsh, Bristol Authority: Environment Agency, South West Region Catchment Area: Frome (Bristol) Reference: 010502 Permit Version: 1 Effective Date: 18 h June 1990 Issued Date: Not Supplied Revocation Date: 1st October 1996 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Avon Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m</p>	A18SW (NW)	499	2	358380 172265
9	<p>Discharge Consents</p> <p>Operator: Lloyds Bank Plc Property Type: CONSTRUCTION OF BUILDINGS Location: Lloyds Bank Development, Canons Marsh, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 010451 Permit Version: 1 Effective Date: 18 h June 1990 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Avon Status: New Consent, by Application (Water Resources Act 1991, Section 113 & Schedule 12) Positional Accuracy: Located by supplier to within 10m</p>	A18SW (NW)	504	2	358380 172270

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Pembroke Road Cso, O/S No. 19 Pembroke Road, Malago, Bristol, Bs3 1pp Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011269 Permit Version: 1 Effective Date: 12 h September 1989 Issued Date: Not Supplied Revocation Date: 15 h March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Malago Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m</p>	A12NE (W)	508	2	358090 171890
11	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Corporation Rd Storm Overflow, (Malago Interceptor), Bristol, Avon Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 021518 Permit Version: 1 Effective Date: 19 h March 1973 Issued Date: 28 h August 1985 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Bristol Avon (S) Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	570	2	358100 172100
11	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Cso Opp. 198 Bedminster Road, Malagol, Bristol, Bs3 5nq Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 103305 Permit Version: 1 Effective Date: 16 h March 2007 Issued Date: 16 h March 2007 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Avon(S) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NE (NW)	597	2	358080 172120
11	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Myrtle Street Cso Myrtle Street Car Park, R/O 13 Exmoor Street, Malago, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 103306 Permit Version: 1 Effective Date: 16 h March 2007 Issued Date: 16 h March 2007 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Avon(E) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NE (NW)	597	2	358080 172120

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Pembroke Road Cso, O/S No. 19 Pembroke Road, Malago, Bristol, Bs3 1pp Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 103307 Permit Version: 1 Effective Date: 16 h March 2007 Issued Date: 16 h March 2007 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Avon(E) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NE (NW)	597	2	358080 172120
12	<p>Discharge Consents</p> <p>Operator: Lloyds Bank Plc Property Type: CONSTRUCTION OF BUILDINGS Location: Lloyds Bank Development, Canons Marsh, Bristol Authority: Environment Agency, South West Region Catchment Area: Frome (Bristol) Reference: 010502 Permit Version: 1 Effective Date: 18 h June 1990 Issued Date: Not Supplied Revocation Date: 1st October 1996 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Avon Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m</p>	A18SW (N)	578	2	358480 172380
13	<p>Discharge Consents</p> <p>Operator: Lloyds Bank Plc Property Type: CONSTRUCTION OF BUILDINGS Location: Lloyds Bank Development, Canons Marsh, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 010451 Permit Version: 1 Effective Date: 18 h June 1990 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Avon Status: New Consent, by Application (Water Resources Act 1991, Section 113 & Schedule 12) Positional Accuracy: Located by supplier to within 10m</p>	A18SW (NW)	607	2	358350 172370
14	<p>Discharge Consents</p> <p>Operator: Clerical Medical Investment Group Ltd Property Type: Undefined Or Other Location: Land Off Cannons Way, Adj To Lloyds Tsb Building, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 102566 Permit Version: 1 Effective Date: 27 h April 2004 Issued Date: 8th June 2004 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Cooling Water Discharge: Saline Estuary Environment: Receiving Water: Bristol Floating Harbour Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A17SE (NW)	625	2	358200 172300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Cso Junc Camden Rd/Allington Rd, Bedminster, Bristol, Bs3 1qa Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011819 Permit Version: 1 Effective Date: 12 h September 1989 Issued Date: Not Supplied Revocation Date: 15 h May 2006 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Avon Status: Application refused - 1961 Rivers (Prevention of Pollution) Act Positional Accuracy: Located by supplier to within 100m</p>	A12NE (W)	643	2	357990 172040
16	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: East Street Cso, Malago, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 102898 Permit Version: 1 Effective Date: 1st June 2005 Issued Date: 1st June 2005 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Avon(E) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A12NE (NW)	680	2	357980 172110
17	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Spring Street, Opp B R Services Depot, Bristol, Bs3 4ag Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011276 Permit Version: 1 Effective Date: 12 h September 1989 Issued Date: Not Supplied Revocation Date: 26 h July 2004 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Malago Status: Application refused - 1961 Rivers (Prevention of Pollution) Act Positional Accuracy: Located by supplier to within 100m</p>	A14NE (E)	752	2	359360 171820
18	<p>Discharge Consents</p> <p>Operator: Bristol 2000 Property Type: Undefined Or Other Location: Wildscreen World , Canons Marsh , BRISTOL Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 100596/2/1 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 15 h June 1998 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge: Tidal Waters Environment: Receiving Water: Floating Harbour, Licence Status: Lapsed, Revoked Or Cancelled Status: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A18NW (N)	794	2	358530 172605

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	<p>Discharge Consents</p> <p>Operator: Mr Ian Cunningham Property Type: MAKING OF MOTOR VEHICLES+TRAILERS/CARS/CARAVANS Location: Wildscreen World, Canons Marsh, Bristol, Bs1 Authority: Environment Agency, South West Region Catchment Area: Frome (Bristol) Reference: 100596 Permit Version: 1 Effective Date: 15 h June 1998 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Trade Boiler Blowdown Effluent: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Floating Harbour Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	799	2	358530 172610
19	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: St Johns Lane Cso, Lower Knowle, Bristol, Bs3 5hn Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 101671 Permit Version: 1 Effective Date: 31st March 2002 Issued Date: 29 h November 2001 Revocation Date: 21st April 2013 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: The Malago (S) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	827	2	358500 170960
20	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Myrtle Street Cso Myrtle Street Car Park, R/O 13 Exmoor Street, Malago, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011267 Permit Version: 1 Effective Date: 12 h September 1989 Issued Date: Not Supplied Revocation Date: 15 h March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Malago Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m</p>	A7NW (SW)	835	2	357830 171440
21	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Sso Access From York Road, Totterdown, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 021590 Permit Version: 1 Effective Date: 15 h October 1987 Issued Date: Not Supplied Revocation Date: 15 h May 2006 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Saline Estuary Environment: Receiving Water: River Avon (E) Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m</p>	A14NE (E)	836	2	359420 172000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: York Road, Junc St Lukes Road, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011280 Permit Version: 1 Effective Date: 12 h September 1989 Issued Date: Not Supplied Revocation Date: 15 h May 2006 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Unknown Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m</p>	A14NE (E)	853	2	359440 171990
22	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Cumberland Road, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 021596 Permit Version: 1 Effective Date: 15 h October 1987 Issued Date: Not Supplied Revocation Date: 7th January 2015 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Avon (E) Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 100m</p>	A17SW (NW)	842	2	357820 172150
22	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: MAKING OF OTHER TRANSPORT EQUIP/SHIPS/TRAINS/BIKES Location: Albion Dockyard, By Cumberland Road, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 021597 Permit Version: 1 Effective Date: 15 h October 1987 Issued Date: Not Supplied Revocation Date: 25 h April 2000 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Bristol Avon Status: Deemed Consent: Transitional Provisions (Section 40) Positional Accuracy: Located by supplier to within 100m</p>	A17SW (NW)	870	2	357790 172150
22	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: MAKING OF OTHER TRANSPORT EQUIP/SHIPS/TRAINS/BIKES Location: Albion Dockyard, By Cumberland Road, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 021598 Permit Version: 1 Effective Date: 15 h October 1987 Issued Date: Not Supplied Revocation Date: 25 h April 2000 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Bristol Avon Status: Deemed Consent - 1986 Variation Positional Accuracy: Located by supplier to within 100m</p>	A17SW (NW)	879	2	357780 172150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: St Johns Lane Cso, Lower Knowle, Bristol, Bs3 5hn Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011273 Permit Version: 1 Effective Date: 12 h September 1989 Issued Date: Not Supplied Revocation Date: 31st March 2002 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Malago Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	847	2	358850 170970
24	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Broad Quay Cso, Broad Quay, City Centre, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011212 Permit Version: 1 Effective Date: 12 h September 1989 Issued Date: Not Supplied Revocation Date: 25 h April 2000 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Bristol Avon/Floating Harbour Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 100m</p>	A18NE (N)	889	2	358650 172700
25	<p>Discharge Consents</p> <p>Operator: The Serviced Apartment Company Ltd Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Purifier House & Building 1 Cannons Marsh, Anchor Road, Bristol, Avon Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 103905 Permit Version: 1 Effective Date: 9th January 2008 Issued Date: 9th January 2008 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: The Floating Harbour Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A17NE (NW)	892	2	358000 172480
26	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bedminster Rd Cycle Track Cso, Near 14/15 Lower Knoyle, Malago, Bristol, Bs3 5pe Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 101670 Permit Version: 1 Effective Date: 31st March 2002 Issued Date: 29 h November 2001 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: The Malago (S) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	898	2	358490 170890

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bedminster Rd Cycle Track Cso, Near 14/15 Lower Knoyle, Malago, Bristol, Bs3 5pe Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011817 Permit Version: 1 Effective Date: 12 h September 1989 Issued Date: Not Supplied Revocation Date: 31st March 2002 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Avon Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	908	2	358490 170880
27	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Anchor Road, Opp Cathedral Garage, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011210 Permit Version: 1 Effective Date: 12 h September 1989 Issued Date: Not Supplied Revocation Date: 25 h April 2000 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Bristol Avon/Floating Harbour Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 100m</p>	A17NE (NW)	955	2	358010 172570
28	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: St Johns Lane Cso, Lower Knowle, Bristol, Bs3 5hn Authority: Environment Agency, South West Region Catchment Area: Not Supplied Reference: 101671 Permit Version: 2 Effective Date: 22nd April 2013 Issued Date: 22nd April 2013 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: The Malago (S) Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	960	2	358491 170828
28	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: St Johns Lane Storm Overflow, St Johns Lane South Side, Bedminster, Bristol Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 021444 Permit Version: 1 Effective Date: 13 h November 1973 Issued Date: 13 h November 1973 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Bristol Avon (S) Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	987	2	358500 170800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: St Lukes Road, Junc Hill Avenue, Bristol, Bs3 4rx Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011278 Permit Version: 2 Effective Date: 28 h September 2010 Issued Date: 28 h September 2010 Revocation Date: 17 h April 2014 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Malago Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A14SE (E)	995	2	359580 171570
29	<p>Discharge Consents</p> <p>Operator: Wessex Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: St Lukes Road, Junc Hill Avenue, Bristol, Bs3 4rx Authority: Environment Agency, South West Region Catchment Area: Tidal Bristol Avon Reference: 011278 Permit Version: 1 Effective Date: 12 h September 1989 Issued Date: Not Supplied Revocation Date: 27 h September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Malago Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 100m</p>	A14SE (E)	995	2	359580 171570
30	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Johnson Cleaners Uk Ltd Location: Unit 2 Asda, East Street, Bedminster, Bristol, Bs3 4jy Authority: Bristol City Council, Environmental Health Department Permit Reference: EP251 Dated: 31st October 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location</p>	A13SE (E)	148	3	358756 171777
31	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Stafford Street Garage Location: 6-16 Stafford Street, BRISTOL, Avon, BS3 4DA Authority: Bristol City Council, Environmental Health Department Permit Reference: Ep75 Dated: 31st March 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Permitted Positional Accuracy: Automatically positioned to the address</p>	A13SE (S)	260	3	358623 171523
32	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Uk Carbody Ltd Location: 6 Whitehouse Lane, Bedminster, Bristol, Bs3 4dn Authority: Bristol City Council, Environmental Health Department Permit Reference: EP232 Dated: 31st March 2008 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles Status: Permitted Positional Accuracy: Manually positioned to the address or location</p>	A13SE (SE)	322	3	358822 171542
33	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Wiltshire (Bristol) Limited Location: Philip Street, BEDMINSTER, Avon, BS3 4DS Authority: Bristol City Council, Environmental Health Department Permit Reference: Ep76 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: Part B - General Coating Process (No Specific Reference) Status: Authorisation revoked Positional Accuracy: Manually positioned to the road within the address or location</p>	A13SE (E)	329	3	358919 171675

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Westend Service StationElf Location: 79 Coronation Road, BRISTOL, Avon, BS3 1AT Authority: Bristol City Council, Environmental Health Department Permit Reference: Ep164 Dated: 8th January 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorisation revoked Positional Accuracy: Automatically positioned to the address</p>	A13NW (NW)	357	3	358302 172021
35	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Pring & St Hill Ltd Location: Malago Road, Bedminster, BRISTOL, Avon, BS3 4JH Authority: Bristol City Council, Environmental Health Department Permit Reference: EP112 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles Status: Not Supplied Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	465	3	358575 171318
36	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: The Keep It Clean Co Location: 6 Redcliff Hill, Bristol, Bs1 6tb Authority: Bristol City Council, Environmental Health Department Permit Reference: EP243 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location</p>	A14NW (NE)	503	3	358992 172132
36	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Keep It Clean Location: 6 Waring House, Redcliff Hill, Bristol, Bs1 6tb Authority: Bristol City Council, Environmental Health Department Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Application exempt from APC Positional Accuracy: Manually positioned to the address or location</p>	A14NW (NE)	503	3	358992 172132
37	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Tr Demolition Uk International Ltd Location: Davron Court, Whitehouse Lane, Bedminster, Bristol, Bs3 4bl Authority: Bristol City Council, Environmental Health Department Permit Reference: EP234 Dated: 2nd December 2004 Process Type: Local Authority Pollution Prevention and Control Description: PG3/16 Mobile screening and crushing processes Status: Permitted Positional Accuracy: Manually positioned to the address or location</p>	A14NW (E)	553	3	359160 171839
38	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Tr Demolition (UK-International) Ltd Location: Whitehouse Place, Bristol, Bs3 4bl Authority: Bristol City Council, Environmental Health Department Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: Part B process (no specific reference) Status: Permitted Positional Accuracy: Manually positioned to the road within the address or location</p>	A14NW (E)	571	3	359176 171853
38	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Ap Autocare Location: Whitehouse Place, Bedminster, BRISTOL, Avon, BS3 4BL Authority: Bristol City Council, Environmental Health Department Permit Reference: Ep222 Dated: 1st May 2001 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Permitted Positional Accuracy: Manually positioned to the address or location</p>	A14NW (E)	609	3	359212 171872

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: The Keep It Clean Co Location: 6 Waring House, Redcliffe Hill, Bristol, Bs1 6tb Authority: Bristol City Council, Environmental Health Department Permit Reference: EP241 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location</p>	A19SW (NE)	683	3	358993 172372
40	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Templegate Peugeot Location: Spring Street, Bedminster, BRISTOL, Avon, BS3 4PZ Authority: Bristol City Council, Environmental Health Department Permit Reference: EP131 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles Status: Application exempt from APC Positional Accuracy: Manually positioned to the address or location</p>	A14NE (E)	746	3	359349 171884
41	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Crago Motors Location: Exmoor Street, BRISTOL, Avon, BS3 1HD Authority: Bristol City Council, Environmental Health Department Permit Reference: Ep086 Dated: 18 h May 1993 Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Application Withdrawn Positional Accuracy: Manually positioned to the address or location</p>	A7NW (SW)	818	3	357845 171448
42	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Drg Malago Ltd. Location: Malago Works, Argus Road, BRISTOL, Avon, BS3 3PB Authority: Bristol City Council, Environmental Health Department Permit Reference: Ep066 Dated: 27 h May 1994 Process Type: Local Authority Air Pollution Control Description: Part B - General Coating Process (No Specific Reference) Status: Authorised Positional Accuracy: Manually positioned to the road within the address or location</p>	A7SE (SW)	870	3	358158 171028
43	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: York Road Service Station Location: York Road, Bedminster, BRISTOL, Avon, BS3 4AB Authority: Bristol City Council, Environmental Health Department Permit Reference: EP134 Dated: 22nd January 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	996	3	359568 172068
	Nearest Surface Water Feature	A13SE (SE)	186	-	358714 171629
44	<p>Prosecutions Relating to Authorised Processes</p> <p>Location: Sheene Road, Bedminster, BRISTOL, Avon, BS3 4EG Prosecution Text: EA News Release 21/07/1997 (Case 2 of 4), Illegally dumping waste on four sites in the south-west and failing to obtain registration as a carrier of waste. Given a six month prison sentence. Prosecution Act: EPA90 Hearing Date: 21st July 1997 Verdict: Guilty Fine: 0 Costs: 0 Positional Accuracy: Manually positioned to the road within the address or location</p>	A8NW (S)	613	2	358400 171200
45	<p>Registered Radioactive Substances</p> <p>Name: University Hospitals Bristol Nhs Foundation Trust Location: Bristol General Hospital, Guinea Street, BRISTOL, Bristol, BS1 6SY Authority: Environment Agency, South West Region Permit Reference: AC2608 Dated: 31st March 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Unknown</p>	A13NE (NE)	380	2	358845 172105

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	<p>Registered Radioactive Substances</p> <p>Name: University Hospitals Bristol Nhs Foundation Trust Location: Bristol General Hospital,Guinea Street,, BRISTOL, Avon, BS1 6SY Authority: Environment Agency, South West Region Permit Reference: CC8419 Dated: 27 h May 2009 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registra ion under the Act of multiple open sources which are also the subject of authorisations Status: Application has been authorised and any conditions apply to the operator Positional Accuracy: Manually posi ioned to the address or location</p>	A13NE (NE)	383	2	358844 172109
45	<p>Registered Radioactive Substances</p> <p>Name: University Hospitals Bristol Nhs Foundation Trust Location: Bristol General Hospital,Guinea Street,, BRISTOL, Avon, BS1 6SY Authority: Environment Agency, South West Region Permit Reference: CC8427 Dated: 27 h May 2009 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Application has been authorised and any conditions apply to the operator Positional Accuracy: Manually posi ioned to the address or location</p>	A13NE (NE)	383	2	358844 172109
45	<p>Registered Radioactive Substances</p> <p>Name: United Bristol Healthcare Nhs Trust Location: Bristol General Hospital, Guinea Street, BRISTOL, Avon, BS1 6SY Authority: Environment Agency, South West Region Permit Reference: AE9930 Dated: 24 h July 1992 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an au horisa ion dated pre April 1991 Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown</p>	A13NE (NE)	383	2	358850 172105
45	<p>Registered Radioactive Substances</p> <p>Name: University Hospitals Bristol Nhs Foundation Trust Location: Bristol General Hospital, Guinea Street, Bristol, BS1 6SY Authority: Environment Agency, South West Region Permit Reference: CB0579 Dated: 17 h January 2007 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	384	2	358845 172110
45	<p>Registered Radioactive Substances</p> <p>Name: University Hospitals Bristol Nhs Foundation Trust Location: Bristol General Hospital, Guinea Street, Bristol, BS1 6SY Authority: Environment Agency, South West Region Permit Reference: CB0595 Dated: 16 h January 2007 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registra ion under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	384	2	358845 172110
45	<p>Registered Radioactive Substances</p> <p>Name: University Hospitals Bristol Nhs Foundation Trust Location: Bristol General Hospital, Guinea Street, BRISTOL, Avon, BS1 6SY Authority: Environment Agency, South West Region Permit Reference: Bx7533 Dated: 27 h June 2004 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Substantial variation to a registra ion under the Act of an open source which is also he subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	384	2	358845 172110

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	<p>Registered Radioactive Substances</p> <p>Name: University Hospitals Bristol Nhs Foundation Trust Location: Bristol General Hospital, Guinea Street, BRISTOL, Avon, BS1 6SY Authority: Environment Agency, South West Region Permit Reference: Bw6426 Dated: 1st December 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	384	2	358845 172110
45	<p>Registered Radioactive Substances</p> <p>Name: University Hospitals Bristol Nhs Foundation Trust Location: Guinea Street, BRISTOL, Avon, BS1 6SY Authority: Environment Agency, South West Region Permit Reference: Bj5317 Dated: 3rd January 2001 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	384	2	358845 172110
45	<p>Registered Radioactive Substances</p> <p>Name: University Hospitals Bristol Nhs Foundation Trust Location: Bristol General Hospital, Guinea Street, BRISTOL, Avon, BS1 6SY Authority: Environment Agency, South West Region Permit Reference: Bi0386 Dated: 9th March 2000 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	384	2	358845 172110
45	<p>Registered Radioactive Substances</p> <p>Name: United Bristol Healthcare Nhs Trust Location: Bristol Royal Infirmary, (Including St Michael S Hospital), Upper Maudlin Street, BRISTOL, BS1 6SY Authority: Environment Agency, South West Region Permit Reference: AH1897 Dated: 31st March 1991 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	384	2	358845 172110
45	<p>Registered Radioactive Substances</p> <p>Name: University Hospitals Bristol Nhs Foundation Trust Location: Bristol General Hospital, Guinea Street, BRISTOL, Avon, BS1 6SY Authority: Environment Agency, South West Region Permit Reference: AC2632 Dated: 31st March 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown</p>	A13NE (NE)	387	2	358850 172110
45	<p>Registered Radioactive Substances</p> <p>Name: University Hospitals Bristol Nhs Foundation Trust Location: Bristol General Hospital, Guinea Street, BRISTOL, Avon, BS1 6SY Authority: Environment Agency, South West Region Permit Reference: A19435 Dated: 6th October 1994 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown</p>	A13NE (NE)	391	2	358850 172115
	<p>River Quality</p> <p>Name: Floating Harbour GQA Grade: River Quality B Reach: Conf With Bristol Frome-Conf With Avon Estimated Distance (km): 2.1 Flow Rate: Flow less than 40 cumecs Flow Type: River Year: 2000</p>	A18SW (N)	487	2	358429 172272

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>River Quality</p> <p>Name: Floating Harbour GQA Grade: River Quality B Reach: Temple Meads-Conf With Bristol Frome Estimated Distance (km): 2.4 Flow Rate: Flow less than 40 cumecs Flow Type: River Year: 2000</p>	A18SW (N)	542	2	358589 172355
46	<p>Substantiated Pollution Incident Register</p> <p>Authority: Environment Agency - South West Region, Wessex Area Incident Date: 18 h June 2015 Incident Reference: 1346501 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Pollutant Not Identified: Not Identified</p>	A8SW (S)	741	2	358471 171051
47	<p>Water Abstractions</p> <p>Operator: Lloyds Bank Plc Licence Number: 17/53/001/S/427 Permit Version: 100 Location: Floating Harbour (Lloyds Bank 2) Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 22nd June 1990 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A18SW (NW)	508	2	358370 172270
47	<p>Water Abstractions</p> <p>Operator: Lloyds Bank Plc Licence Number: 17/53/001/S/427 Permit Version: 100 Location: Floating Harbour (Lloyds Bank) Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Two Intakes; Bristol Floatgharbr Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 22nd June 1990 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A18SW (NW)	513	2	358340 172260
48	<p>Water Abstractions</p> <p>Operator: Scottish Widows Limited Licence Number: Sw/053/0002/009 Permit Version: 2 Location: Floating Harbour - Bristol Harbourside Authority: Environment Agency, South West Region Abstraction: Private Water Supply: Heat Pump Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 26 h June 2018 Permit End Date: Not Supplied Positional Accuracy: Manually corrected supplier location</p>	A17SE (NW)	625	2	358200 172300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	<p>Water Abstractions</p> <p>Operator: Scottish Widows Limited Licence Number: Sw/053/0002/009 Permit Version: 2 Location: Floating Harbour - Bristol Harbourside Authority: Environment Agency, South West Region Abstraction: Private Water Supply: Heat Pump Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 26 h June 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	646	2	358179 172309
48	<p>Water Abstractions</p> <p>Operator: Scottish Widows Limited Licence Number: Sw/053/0002/009 Permit Version: 1 Location: Floating Harbour - Bristol Harbourside Authority: Environment Agency, South West Region Abstraction: Private Water Supply: Heat Pump Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 11 h January 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	646	2	358179 172309
48	<p>Water Abstractions</p> <p>Operator: Clerical Medical Investment Group Ltd Licence Number: 17/53/001/S/466 Permit Version: 103 Location: Floating Harbour - Bristol Harbourside Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 31st August 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	646	2	358180 172310
48	<p>Water Abstractions</p> <p>Operator: Clerical Medical Investment Group Ltd Licence Number: 17/53/001/S/466 Permit Version: 103 Location: Floating Harbour - Bristol Harbourside Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 31st August 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	646	2	358180 172310

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	<p>Water Abstractions</p> <p>Operator: Crest Nicholson (Sw) Ltd Licence Number: 17/53/001/S/466 Permit Version: 102 Location: Floating Harbour - Bristol Harbourside Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	646	2	358180 172310
48	<p>Water Abstractions</p> <p>Operator: Crest Nicholson (Sw) Ltd Licence Number: 17/53/001/S/466 Permit Version: 102 Location: Floating Harbour - Bristol Harbourside Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	646	2	358180 172310
48	<p>Water Abstractions</p> <p>Operator: Crest Nicholson (Sw) Ltd Licence Number: 17/53/001/S/466 Permit Version: 101 Location: Floating Harbour - Bristol Harbourside Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 16 h March 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	646	2	358180 172310
48	<p>Water Abstractions</p> <p>Operator: Crest Nicholson (Sw) Ltd Licence Number: 17/53/001/S/466 Permit Version: 101 Location: Floating Harbour - Bristol Harbourside Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 16 h March 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	646	2	358180 172310

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	<p>Water Abstractions</p> <p>Operator: Bristol City Council Licence Number: 175301S391 Permit Version: Not Supplied Location: Redcliff Wharf, Redcliffe, BRISTOL, Somerset Authority: Environment Agency, South West Region Abstraction: Refuge Taps (Not Known) Abstraction Type: Not Supplied Source: Tidal Daily Rate (m3): 20 Yearly Rate (m3): 5318 Details: Expired: 04-Aug-1992; Water Supply - Other; Floating Harbour Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A19SW (NE)	710	2	359000 172400
50	<p>Water Abstractions</p> <p>Operator: The Blue Reef Leisure Company Limited Licence Number: 17/53/001/S/458 Permit Version: 102 Location: Floating Harbour River Avon Authority: Environment Agency, South West Region Abstraction: Construction: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 23rd March 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	799	2	358530 172610
50	<p>Water Abstractions</p> <p>Operator: The Blue Reef Leisure Company Limited Licence Number: 17/53/001/S/458 Permit Version: 102 Location: Floating Harbour River Avon Authority: Environment Agency, South West Region Abstraction: Construction: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 23rd March 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	799	2	358530 172610
50	<p>Water Abstractions</p> <p>Operator: At-Bristol Limited Licence Number: 17/53/001/S/458 Permit Version: 101 Location: Floating Harbour River Avon Authority: Environment Agency, South West Region Abstraction: Construction: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st July 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	799	2	358530 172610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	<p>Water Abstractions</p> <p>Operator: At-Bristol Limited Licence Number: 17/53/001/S/458 Permit Version: 101 Location: Floating Harbour River Avon Authority: Environment Agency, South West Region Abstraction: Construction: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st July 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	799	2	358530 172610
50	<p>Water Abstractions</p> <p>Operator: Bristol 2000 Licence Number: 17/53/001/S/458 Permit Version: 100 Location: Floating Harbour River Avon Authority: Environment Agency, South West Region Abstraction: Construction: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 25 h May 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	799	2	358530 172610
50	<p>Water Abstractions</p> <p>Operator: Bristol 2000 Licence Number: 17/53/001/S/458 Permit Version: 100 Location: Floating Harbour River Avon Authority: Environment Agency, South West Region Abstraction: Construction: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 25 h May 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	799	2	358530 172610
51	<p>Water Abstractions</p> <p>Operator: Serviced Apartment Company Ltd Licence Number: 17/53/001/S/472 Permit Version: 101 Location: Floating Harbour Bristol- Serving Purifier Hse & Building 1 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: N/A Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 7th January 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	912	2	357940 172450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: The Trustees Of Ss Great Britain Trust Licence Number: 17/53/001/S/468/R01 Permit Version: 1 Location: Bristol Floating Harbour - Dock Feed Authority: Environment Agency, South West Region Abstraction: Holiday sites, Camp Sites & Tourist Attractions: Lake & Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A17SW (NW)	1063	2	357738 172445
	<p>Water Abstractions</p> <p>Operator: The Trustees Of Ss Great Britain Trust Licence Number: 17/53/001/S/468/R01 Permit Version: 1 Location: Bristol Floating Harbour - Dock Feed Authority: Environment Agency, South West Region Abstraction: Holiday Sites, Camp Sites & Tourist Attractions: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A17SW (NW)	1063	2	357738 172445
	<p>Water Abstractions</p> <p>Operator: Ss Great Britain Trust Licence Number: 17/53/001/S/468 Permit Version: 101 Location: Bristol Floating Harbour - Dock Feed Authority: Environment Agency, South West Region Abstraction: Holiday sites, Camp Sites & Tourist Attractions: Lake & Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 21st September 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A17SW (NW)	1066	2	357730 172440
	<p>Water Abstractions</p> <p>Operator: Ss Great Britain Trust Licence Number: 17/53/001/S/468 Permit Version: 101 Location: Bristol Floating Harbour - Dock Feed Authority: Environment Agency, South West Region Abstraction: Holiday Sites, Camp Sites & Tourist Attractions: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 21st September 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A17SW (NW)	1066	2	357730 172440

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: J G Bristol Ltd Licence Number: 17/53/001/G/102 Permit Version: 103 Location: Borehole Bath Street Bristol Authority: Environment Agency, South West Region Abstraction: Breweries/Wine: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 17 h October 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A24SW (NE)	1288	2	359120 172990
	<p>Water Abstractions</p> <p>Operator: J G Bristol Ltd Licence Number: 17/53/001/G/102 Permit Version: 102 Location: Borehole Bath Street Bristol Authority: Environment Agency, South West Region Abstraction: Breweries/Wine: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19 h April 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A24SW (NE)	1288	2	359120 172990
	<p>Water Abstractions</p> <p>Operator: Scottish & Newcastle Plc Licence Number: 17/53/001/G/102 Permit Version: 101 Location: Borehole Bath Street Bristol Authority: Environment Agency, South West Region Abstraction: Breweries/Wine: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st October 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A24SW (NE)	1288	2	359120 172990
	<p>Water Abstractions</p> <p>Operator: Scottish & Newcastle Plc Licence Number: 17/53/001/S/102 Permit Version: 101 Location: Floating Harbour Bath Street Bristol Authority: Environment Agency, South West Region Abstraction: Breweries/Wine: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Floating Harbour Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st October 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A24SW (NE)	1301	2	359130 173000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Jacobs Wells Spring Water Licence Number: 17/53/001/S/428 Permit Version: 100 Location: Jacobs Well Authority: Environment Agency, South West Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Jacobs Well Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19 h January 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A17NW (NW)	1331	2	357700 172800
	<p>Water Abstractions</p> <p>Operator: Antomarst Limited Licence Number: Sw/053/0002/007 Permit Version: 2 Location: Jacobs Well Authority: Environment Agency, South West Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Jacobs Well, Jacobs Wells Road, Bristol Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st July 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A22SW (NW)	1381	2	357697 172864
	<p>Water Abstractions</p> <p>Operator: Jacobs Wells Water Limited Licence Number: Sw/053/0002/007 Permit Version: 1 Location: Jacobs Well Authority: Environment Agency, South West Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Jacobs Well, Jacobs Wells Road, Bristol Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 10 h September 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A22SW (NW)	1381	2	357697 172864
	<p>Water Abstractions</p> <p>Operator: Jacobs Wells Water Limited Licence Number: Sw/053/0002/002 Permit Version: 2 Location: Jacobs Well Authority: Environment Agency, South West Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A22SW (NW)	1381	2	357697 172864

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Chk Holdings Licence Number: Sw/053/0002/002 Permit Version: 1 Location: Jacobs Well Authority: Environment Agency, South West Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 31st March 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A22SW (NW)	1381	2	357697 172864
	<p>Water Abstractions</p> <p>Operator: Eugenia Springs Limited Licence Number: 17/53/001/S/428 Permit Version: 101 Location: Jacobs Well Authority: Environment Agency, South West Region Abstraction: Food And Drink: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A22SW (NW)	1382	2	357690 172860
	<p>Water Abstractions</p> <p>Operator: Dolan Corrugated Containers Licence Number: 175301S082 Permit Version: Not Supplied Location: Avonside Paper Mills, St Philips, BRISTOL, Somerset, BS2 Authority: Environment Agency, South West Region Abstraction: Paper Making Abstraction Type: Not Supplied Source: Tidal Daily Rate (m3): 327 Yearly Rate (m3): 90922 Details: Expired: 17-Jun-1993; Floating Harbour Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A20NW (NE)	1432	2	359800 172600
	<p>Water Abstractions</p> <p>Operator: Castlemore (Temple Quay 2) Ltd Licence Number: 17/53/001/S/470 Permit Version: 102 Location: Floating Harbour Bristol- Point B Serving Building Nd3 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: N/A Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 11 h November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1437	2	359752 172677

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Castlemore Securities Ltd Licence Number: 17/53/001/S/470 Permit Version: 101 Location: Floating Harbour Bristol- Point B Serving Building Nd3 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: N/A Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 10 h November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1437	2	359752 172677
	<p>Water Abstractions</p> <p>Operator: Castlemore (Temple Quay 2) Ltd Licence Number: 17/53/001/S/470 Permit Version: 102 Location: Floating Harbour Bristol- Point A Serving Building Nd3 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: N/A Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 11 h November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1438	2	359754 172676
	<p>Water Abstractions</p> <p>Operator: Castlemore Securities Ltd Licence Number: 17/53/001/S/470 Permit Version: 101 Location: Floating Harbour Bristol- Point A Serving Building Nd3 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: N/A Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 10 h November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1438	2	359754 172676
	<p>Water Abstractions</p> <p>Operator: The National Farmers Union Mutual Insurance Society Limited Licence Number: 17/53/001/S/471/R01 Permit Version: 1 Location: Floating Harbour Bristol- Point B Serving Building Nd4 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Heat Pump Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Floating Harbour, Bristol Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 26 h May 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1439	2	359756 172674

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: The National Farmers Union Mutual Insurance Society Limited Licence Number: 17/53/001/S/471 Permit Version: 104 Location: Floating Harbour Bristol- Point B Serving Building Nd4 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Heat Pump Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Floating Harbour, Bristol Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 6th March 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1439	2	359756 172674
	<p>Water Abstractions</p> <p>Operator: The National Farmers Union Mutual Insurance Society Limited Licence Number: 17/53/001/S/471 Permit Version: 103 Location: Floating Harbour Bristol- Point B Serving Building Nd4 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: N/A Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 14 h March 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1439	2	359756 172674
	<p>Water Abstractions</p> <p>Operator: Castlemore (Temple Quay 2) Limited Licence Number: 17/53/001/S/471 Permit Version: 102 Location: Floating Harbour Bristol- Point B Serving Building Nd4 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: N/A Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 11 h November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1439	2	359756 172674
	<p>Water Abstractions</p> <p>Operator: Castlemore Securities Ltd Licence Number: 17/53/001/S/471 Permit Version: 101 Location: Floating Harbour Bristol- Point B Serving Building Nd4 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: N/A Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 10 h November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1439	2	359756 172674

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: The National Farmers Union Mutual Insurance Society Limited Licence Number: 17/53/001/S/471/R01 Permit Version: 1 Location: Floating Harbour Bristol- Point A Serving Building Nd4 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Heat Pump Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Floating Harbour, Bristol Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 26 h May 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1440	2	359758 172673
	<p>Water Abstractions</p> <p>Operator: The National Farmers Union Mutual Insurance Society Limited Licence Number: 17/53/001/S/471 Permit Version: 104 Location: Floating Harbour Bristol- Point A Serving Building Nd4 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Heat Pump Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Floating Harbour, Bristol Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 6th March 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1440	2	359758 172673
	<p>Water Abstractions</p> <p>Operator: The National Farmers Union Mutual Insurance Society Limited Licence Number: 17/53/001/S/471 Permit Version: 103 Location: Floating Harbour Bristol- Point A Serving Building Nd4 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: N/A Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 14 h March 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1440	2	359758 172673
	<p>Water Abstractions</p> <p>Operator: Castlemore (Temple Quay 2) Limited Licence Number: 17/53/001/S/471 Permit Version: 102 Location: Floating Harbour Bristol- Point A Serving Building Nd4 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: N/A Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 11 h November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1440	2	359758 172673

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Castlemore Securities Ltd Licence Number: 17/53/001/S/471 Permit Version: 101 Location: Floating Harbour Bristol- Point A Serving Building Nd4 Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: N/A Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 10 h November 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1440	2	359758 172673
	<p>Water Abstractions</p> <p>Operator: Dolan Corrugated Containers Licence Number: 175301G082 Permit Version: Not Supplied Location: Avonside Paper Mills, St Philips, BRISTOL, Somerset, BS2 Authority: Environment Agency, South West Region Abstraction: Paper Making Abstraction Type: Not Supplied Source: Borehole Daily Rate (m3): 327 Yearly Rate (m3): 90922 Details: Upper Sandstone; Process Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A20NW (NE)	1490	2	359800 172700
	<p>Water Abstractions</p> <p>Operator: Chanson Foods Licence Number: Sw/053/0002/001/R01 Permit Version: 1 Location: Abstraction Point A - Feeder Canal, Floating Harbour Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1511	2	359927 172544
	<p>Water Abstractions</p> <p>Operator: Chanson Foods Licence Number: Sw/053/0002/001 Permit Version: 1 Location: Abstraction Point A - Feeder Canal, Floating Harbour Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 11 h April 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A20NW (NE)	1511	2	359927 172544

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Rheemco Ltd Licence Number: 175301S003 Permit Version: Not Supplied Location: st Vincent's Works, Silverthorne Lane, BRISTOL , BS2 0QF Authority: Environment Agency, South West Region Abstraction: Metal Goods Abstraction Type: Not Supplied Source: Tidal Daily Rate (m3): 91 Yearly Rate (m3): 22730 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A20SE (E)	1700	2	360200 172400
	<p>Water Abstractions</p> <p>Operator: Mr C Mant Licence Number: 175301S441 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, South West Region Abstraction: Industrial Processing (Miscellaneous) Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 1 Yearly Rate (m3): 260 Details: Feeder Canal Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A20NE (NE)	1737	2	360200 172500
	<p>Water Abstractions</p> <p>Operator: Rheemco Ltd Licence Number: 175301S003 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, South West Region Abstraction: Metal Goods Abstraction Type: Not Supplied Source: Tidal Daily Rate (m3): 91 Yearly Rate (m3): 22730 Details: Feeder Canal Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(E)	1792	2	360300 172395
	<p>Water Abstractions</p> <p>Operator: Bristol Rubbish Clearance 1994 Ltd Licence Number: 17/53/001/S/456 Permit Version: 100 Location: River Avon At Albert Quay Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: River Avon Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 24 h March 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(E)	1823	2	360430 171730

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Trib Of Western Avon At Townsend Farm Licence Number: 13/43/021/S/131 Permit Version: 100 Location: River Avon At Albert Quay Authority: Environment Agency, South West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Tidal Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 24 h March 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(E)	1823	2	360430 171730
	<p>Water Abstractions</p> <p>Operator: Neptune Plating Ltd Licence Number: 17/53/001/G/454 Permit Version: 100 Location: Barton Manor Authority: Environment Agency, South West Region Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Lower Coal Series Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 7th December 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A25SE (NE)	1910	2	360100 173000
	<p>Groundwater Vulnerability</p> <p>Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 37 Southern Cotswolds Scale: 1:100,000</p>	A13SW (E)	0	2	358599 171796
	<p>Drift Deposits</p> <p>Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 37 Southern Cotswolds Scale: 1:100,000</p>	A13SW (E)	0	2	358599 171796
	<p>Bedrock Aquifer Designations</p> <p>Aquifer Designation: Secondary Aquifer - A</p>	A13SW (E)	0	1	358599 171796
	<p>Superficial Aquifer Designations</p> <p>Aquifer Designation: Unproductive Strata</p>	A13SW (E)	0	1	358599 171796
	<p>Extreme Flooding from Rivers or Sea without Defences</p> <p>Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied</p>	A13SW (E)	0	2	358599 171796
	<p>Extreme Flooding from Rivers or Sea without Defences</p> <p>Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied</p>	A13NW (W)	1	2	358588 171798
	<p>Extreme Flooding from Rivers or Sea without Defences</p> <p>Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied</p>	A13SE (S)	60	2	358615 171722
	<p>Extreme Flooding from Rivers or Sea without Defences</p> <p>Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied</p>	A13SE (SE)	150	2	358735 171703
	<p>Extreme Flooding from Rivers or Sea without Defences</p> <p>Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied</p>	A13SE (SE)	154	2	358697 171657

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	164	2	358730 171673
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	183	2	358720 171637
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (N)	194	2	358562 172005
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13NW (N)	199	2	358562 172010
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (N)	205	2	358640 172012
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (N)	212	2	358670 172012
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	249	2	358450 172017
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (N)	250	2	358560 172061
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	16	2	358620 171771
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	186	2	358714 171629
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	191	2	358717 171625
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	193	2	358720 171624
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (N)	194	2	358562 172005
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13NW (N)	199	2	358562 172010
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	205	2	358732 171620
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	205	2	358737 171623

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (N)	205	2	358640 172012
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (N)	212	2	358670 172012
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	213	2	358747 171621
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	220	2	358755 171618
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	227	2	358765 171618
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	234	2	358772 171616
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (SE)	241	2	358782 171615
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	249	2	358450 172017
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (N)	250	2	358560 172061
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 522.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Malago Catchment Name: Avon Bristol Primacy: 1	A13NE (NE)	125	4	358665 171920
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Malago Catchment Name: Avon Bristol Primacy: 1	A13SE (SE)	187	4	358714 171627
54	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 23.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Malago Catchment Name: Avon Bristol Primacy: 1	A13NE (N)	216	4	358663 172018

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 618.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Avon Catchment Name: Avon Bristol Primacy: 1	A13NW (N)	231	4	358558 172041
56	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 394.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Avon Catchment Name: Avon Bristol Primacy: 1	A13NE (N)	236	4	358656 172040
57	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 53.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Avon (Tetbury Branch) Catchment Name: Avon Bristol Primacy: 1	A13NE (N)	236	4	358656 172040
58	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 8.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	A13NW (N)	237	4	358585 172050
59	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 33.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Avon Catchment Name: Avon Bristol Primacy: 1	A13NW (N)	237	4	358585 172050
60	OS Water Network Lines Watercourse Form: Foreshore Watercourse Length: 6.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 2	A13NW (N)	246	4	358585 172059
61	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 48.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 2	A13NE (N)	248	4	358617 172060
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Malago Catchment Name: Avon Bristol Primacy: 1	A13SE (SE)	250	4	358784 171605
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1130.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 2	A13NW (N)	252	4	358584 172065

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Malago Catchment Name: Avon Bristol Primacy: 1	A13SE (SE)	258	4	358781 171591
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 2	A13NE (N)	287	4	358648 172095
66	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 182.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 2	A13NE (N)	310	4	358672 172113
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 123.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Malago Catchment Name: Avon Bristol Primacy: 1	A13SE (SE)	332	4	358765 171490
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1245.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 2	A13SW (SW)	391	4	358283 171541
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Malago Catchment Name: Avon Bristol Primacy: 1	A8NE (S)	403	4	358699 171389
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.9 Watercourse Level: Underground Permanent: True Watercourse Name: The Malago Catchment Name: Avon Bristol Primacy: 1	A8NE (S)	456	4	358629 171326
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 2	A18SE (NE)	470	4	358792 172241
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1352.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Floating Harbour Catchment Name: Avon Bristol Primacy: 1	A18SW (NW)	472	4	358380 172234

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 393.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Avon Catchment Name: Avon Bristol Primacy: 1	A14NW (NE)	478	4	359040 172009
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 315.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Malago Catchment Name: Avon Bristol Primacy: 1	A8NE (S)	482	4	358651 171302
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 168.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Floating Harbour Catchment Name: Avon Bristol Primacy: 1	A18SE (N)	517	4	358606 172330
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 230.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 1	A18SW (N)	519	4	358533 172329
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Floating Harbour Catchment Name: Avon Bristol Primacy: 2	A18SE (N)	539	4	358699 172342
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 2	A18SE (N)	542	4	358798 172317
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 191.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Floating Harbour Catchment Name: Avon Bristol Primacy: 1	A18SE (N)	548	4	358677 172355
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Floating Harbour Catchment Name: Avon Bristol Primacy: 2	A18SE (N)	562	4	358794 172339
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 137.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Floating Harbour Catchment Name: Avon Bristol Primacy: 1	A18SE (N)	582	4	358825 172349

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 5.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 2	A12NE (NW)	682	4	357981 172117
83	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 12.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 2	A12NE (NW)	685	4	357981 172122
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 1	A18SE (NE)	687	4	358934 172413
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Floating Harbour Catchment Name: Avon Bristol Primacy: 1	A18SE (NE)	687	4	358934 172413
86	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 1096.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Avon Catchment Name: Avon Bristol Primacy: 1	A17SE (NW)	692	4	357979 172135
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 164.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 2	A18NW (N)	724	4	358553 172536
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 131.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 1	A18NW (N)	724	4	358553 172536
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Floating Harbour Catchment Name: Avon Bristol Primacy: 2	A19SW (NE)	737	4	358960 172456
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Floating Harbour Catchment Name: Avon Bristol Primacy: 1	A19SW (NE)	737	4	358960 172456

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Malago Catchment Name: Avon Bristol Primacy: 1	A8SW (S)	739	4	358472 171053
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 721.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Floating Harbour Catchment Name: Avon Bristol Primacy: 1	A19NW (NE)	762	4	358957 172485
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Malago Catchment Name: Avon Bristol Primacy: 1	A8SW (S)	798	4	358485 170992
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1248.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: The Malago Catchment Name: Avon Bristol Primacy: 1	A8SW (S)	828	4	358495 170961
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 1	A8SW (S)	828	4	358497 170960
96	OS Water Network Lines Watercourse Form: Tidal river Watercourse Length: 310.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Avon Catchment Name: Avon Bristol Primacy: 1	A14NE (E)	832	4	359412 172017
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 1	A18NW (N)	851	4	358562 172663
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 1	A18NW (N)	907	4	358567 172720
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 2	A18NW (N)	907	4	358567 172720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	<p>OS Water Network Lines</p> <p>Watercourse Form: Inland river Watercourse Length: 126.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 1</p>	A8SE (S)	955	4	358620 170827
101	<p>OS Water Network Lines</p> <p>Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Avon Bristol Primacy: 2</p>	A23SW (N)	1000	4	358575 172813

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 27260 Location: 11 Whitehouse Place , Bedminster, Bristol, Avon, BS3 5AN Operator Name: Bradley R G Operator Location: Not Supplied Authority: Environment Agency - South West Region, Wessex Area Site Category: End of Life Vehicles Licence Status: Revoked Issued: 11 h November 1997 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: 30 h January 2014 Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A14SW (E)	598	2	359200 171700
103	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 27212 Location: Land / Premises At, Farris Lane, Prince Street, Bristol, Avon, BS1 4PZ Operator Name: Harris & Co Operator Location: Not Supplied Authority: Environment Agency - South West Region, Wessex Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Issued Issued: 27 h September 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	677	2	358590 172490
104	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 27283 Location: 94-96 Cumberland Road , Bristol, Avon, BS1 6UG Operator Name: Geraghty J J Operator Location: Not Supplied Authority: Environment Agency - South West Region, Wessex Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Surrendered Issued: 16 h October 1992 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 6th July 2000 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A17SW (NW)	793	2	357900 172200
105	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 27277 Location: Stenners Yard, St Johns Lane, Bedminster, Bristol, Avon, BS3 5AZ Operator Name: Abacus Bristol Ltd Operator Location: Not Supplied Authority: Environment Agency - South West Region, Wessex Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Surrendered Issued: 8th December 1997 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 23rd December 2005 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	987	2	358500 170800
	<p>Local Authority Landfill Coverage</p> <p>Name: Bristol City Unitary Authority - Has no landfill data to supply</p>		0	5	358599 171796
106	<p>Potentially Infilled Land (Non-Water)</p> <p>Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1887</p>	A13SW (W)	195	-	358406 171724
107	<p>Potentially Infilled Land (Non-Water)</p> <p>Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996</p>	A8NW (S)	482	-	358487 171312

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A8NW (S)	550	-	358570 171233
109	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A8SW (S)	802	-	358348 171018
110	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1996	A8SW (S)	730	-	358485 171060
111	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1920	A8SE (S)	853	-	358900 170980
112	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A8SE (S)	871	-	358773 170927
113	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1996	A23SW (N)	999	-	358588 172812
114	Registered Waste Transfer Sites Licence Holder: Harris & Co Licence Reference: L/BL/P/250 Site Location: Farris Lane, Prince Street, BRISTOL, Avon, BS1 4PZ Operator Location: As Site Address Authority: Environment Agency - South West Region, North Wessex Area Site Category: Transfer Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 27 h September 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually posi ioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Gen. Ferrous Metals Gen. Non-Ferrous Metals Paper Plastics Textiles Prohibited Waste: Liable To Cause Environmental Hazards Liquid Wastes Sludge Wastes Waste N.O.S.	A18NE (N)	677	2	358600 172490
115	Registered Waste Transfer Sites Licence Holder: Ocean Reprographics Ltd Licence Reference: L/BL/T/255A Site Location: Victoria Grove, Bedminster, BRISTOL, Avon, BS3 4AN Operator Location: As Site Address Authority: Environment Agency - South West Region, North Wessex Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site exempt from licenceExempt Dated: 8th October 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually posi ioned to the road wi hin the address or location Boundary Quality: Not Supplied Authorised Waste: Max.Storage In Licence Photographic Developer - Alkaline Photographic Fixer - Inorganic Acids Photographic Fixer - Organic Acids Prohibited Waste: Waste N.O.S.	A14NE (E)	698	2	359300 171890

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: Abacus Bristol Ltd Licence Reference: L/BL/P/340 Site Location: Stenners Yard, St Johns Lane, Bedminster, BRISTOL, Avon, BS3 5AZ Operator Location: 812 Whitchurch Lane, Whitchurch, BRISTOL, Avon, BS14 0RJ Authority: Environment Agency - South West Region, North Wessex Area Site Category: Transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is known Dated: 8th December 1997 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Construction And Demolition Wastes Excavation Waste Large Bulky Household Items Max.Storage In Licence Max.Waste Permitted By Licence Prohibited Waste: Devon Cat.B: General Waste Spec.Waste (Epa'90:S62/1996 Regs) Waste N.O.S. Waste Of Hazardous Nature Waste Of Toxic Nature</p>	A8SW (S)	933	2	358550 170850
117	<p>Registered Waste Treatment or Disposal Sites</p> <p>Licence Holder: R G Bradley Of Atex Breakers Licence Reference: L/BL/P/341 Site Location: 11 Whitehouse Place, Bedminster, BRISTOL, Avon, BS3 5AN Operator Location: As Site Address Authority: Environment Agency - South West Region, North Wessex Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site exempt from licence Dated: 11 h November 1997 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: General Ferrous Metals General Non-Ferrous Metals Max.Storage In Licence Max.Waste Permitted By Licence Prohibited Waste: Scrap Motor Vehicles Liquid/Sludge N.O.S. Waste N.O.S.</p>	A14NW (E)	594	2	359200 171850
118	<p>Registered Waste Treatment or Disposal Sites</p> <p>Licence Holder: J J Geraghty t/a Bristol Rubbish Clearance Licence Reference: L/BL/T/257 Site Location: 94-96 Cumberland Road, BRISTOL, Avon, BS1 6UG Operator Location: As Site Address Authority: Environment Agency - South West Region, North Wessex Area Site Category: Storage - with transfer Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence has completion certificate Dated: 16 h October 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Bulky Household Clearance Waste Construction And Demolition Wastes Excavation Waste Prohibited Waste: Bonded Asbestos Waste Liquid Wastes Poisonous, Noxious, Polluting Wastes Waste N.O.S.</p>	A17SE (NW)	736	2	357960 172190

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	<p>Notification of Installations Handling Hazardous Substances (NIHHS)</p> <p>Name: British Gas TransCo Location: Canons Marsh Gas Holder, Brandon Yard, Anchor Road, BRISTOL, Avon, BS1 6UN Status: Not Active Positional Accuracy: Automatically positioned to postcode unit of the address</p>	A17NE (NW)	848	6	358103 172506
120	<p>Planning Hazardous Substance Consents</p> <p>Name: British Gas Plc Location: Holder Station, Canons Marsh, Bristol, Avon, Bs1 6un Authority: Bristol City Council, Planning Department Application Ref: Hsdc/11 Hazardous: Part C, Flammable Substance (Not in Parts A&B), Gas or gases flammable in air, when held as a gas, where amount held is >= 15tonnes Substance: air, when held as a gas, where amount held is >= 15tonnes Maximum Quantity: 82.42 Application date: 21st September 1992 Decision: Deemed consent granted between June 1992 and November 1992Granted Positional Accuracy: Manually positioned to the address or location</p>	A17NE (NW)	848	7	358103 172506

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13SW (E)	0	1	358599 171796
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (E)	0	1	358599 171796
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	90	1	358500 171796
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	310	1	358800 171539
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	317	1	358753 171500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	350	1	358789 171483
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A9NW (SE)	503	1	358959 171421

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9NW (SE)	512	1	359000 171452
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 35 - 45 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: <100 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9NW (SE)	537	1	358987 171401
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 35 - 45 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9NW (SE)	539	1	359000 171412
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 35 - 45 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A9NW (SE)	659	1	359178 171451
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 15 - 25 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel 15 - 30 mg/kg</p> <p>Concentration:</p>	A9SW (SE)	873	1	359000 171002
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service</p> <p>Soil Sample Type: Sediment</p> <p>Arsenic 25 - 35 mg/kg</p> <p>Concentration:</p> <p>Cadmium <1.8 mg/kg</p> <p>Concentration:</p> <p>Chromium 90 - 120 mg/kg</p> <p>Concentration:</p> <p>Lead Concentration: 100 - 200 mg/kg</p> <p>Nickel 30 - 45 mg/kg</p> <p>Concentration:</p>	A14SE (E)	922	1	359530 171788

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>BGS Estimated Soil Chemistry</p> <p>Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:</p>	A14SE (E)	964	1	359572 171765
121	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Malagoo Vale Works Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 227911 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m</p>	A8NW (S)	532	1	358448 171270
122	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Malagoo Vale Works Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 227910 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m</p>	A7SE (SW)	778	1	358235 171091
123	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Malagoo Vale Works Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 227909 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m</p>	A7SE (S)	927	1	358255 170919
	<p>BGS Measured Urban Soil Chemistry</p> <p>No data available</p>				
	<p>BGS Urban Soil Chemistry Averages</p> <p>No data available</p>				
	<p>Coal Mining Affected Areas</p> <p>Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.</p>	A13SW (E)	0	8	358599 171796
	<p>Mining Instability</p> <p>Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied</p>	A13SW (E)	0	-	358599 171796
	<p>Man-Made Mining Cavities</p> <p>Easting: 358900 Northing: 172300 Distance: 572 Quadrant Reference: A18 Quadrant Reference: SE Bearing Ref: NE Cavity Type: Adit Entry Pillar and Stall Sand Mines Commodity: Sandstone Solid Geology Detail: Redcliffe Sandstone Formation Superficial Geology: No Details Detail:</p>	A18SE (NE)	572	9	358900 172300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	358599 171796
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	40	1	358551 171819
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	358599 171796
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	97	1	358553 171902
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	208	1	358619 172019
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	358599 171796
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	358599 171796
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	208	1	358619 172019
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	245	1	358715 172028
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	358599 171796
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	97	1	358553 171902
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	208	1	358619 172019
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	358599 171796
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	40	1	358551 171819
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	358599 171796
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (E)	0	1	358599 171796

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	<p>Contemporary Trade Directory Entries</p> <p>Name: Lombard Service Station Location: Brook Road, Southville, Bristol, BS3 1AJ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (N)	0	-	358603 171808
124	<p>Contemporary Trade Directory Entries</p> <p>Name: Lombard Service Station Location: Brook Road, Southville, Bristol, BS3 1AJ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (N)	0	-	358603 171808
125	<p>Contemporary Trade Directory Entries</p> <p>Name: Done & Dusted Location: 11, Alpha Road, Bristol, Avon, BS3 1DH Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NW (NW)	99	-	358508 171864
125	<p>Contemporary Trade Directory Entries</p> <p>Name: Alpha Pest Control Location: 3, Alpha Road, Bristol, BS3 1DH Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NW (NW)	119	-	358520 171907
126	<p>Contemporary Trade Directory Entries</p> <p>Name: Johnsons The Cleaners Location: East Street, Bedminster, Bristol, BS3 4JY Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13NE (E)	128	-	358736 171809
126	<p>Contemporary Trade Directory Entries</p> <p>Name: Asda Petrol Location: East Street, Bedminster, Bristol, BS3 4JY Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13NE (E)	129	-	358736 171809
126	<p>Contemporary Trade Directory Entries</p> <p>Name: Beggars Ltd Location: East Street, Bedminster, Bristol, BS3 4JY Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (E)	129	-	358736 171809
127	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Autogas Location: Green Building, Lucky Lane, Bristol, BS3 1BD Classification: Autogas Suppliers & Installers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A13NE (N)	130	-	358610 171942
128	<p>Contemporary Trade Directory Entries</p> <p>Name: Bedminster Photo Co Location: 40, East Street, Bedminster, Bristol, BS3 4HD Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	136	-	358668 171660
128	<p>Contemporary Trade Directory Entries</p> <p>Name: The Photo Co (Bedminster) Location: 40, East Street, Bedminster, Bristol, BS3 4HD Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	136	-	358668 171660
129	<p>Contemporary Trade Directory Entries</p> <p>Name: Advanced Photo Ltd Location: Unit 4-5 East St, Bedminster, Bristol, BS3 4HH Classification: Photographic Processors Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A13SE (SE)	146	-	358734 171708
129	<p>Contemporary Trade Directory Entries</p> <p>Name: A J Automotive Location: Unit 1, Windmill Farm Business Centre, Bartley St, Bristol, Avon, BS3 4DB Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A13SE (SE)	180	-	358766 171695

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	<p>Contemporary Trade Directory Entries</p> <p>Name: Reynolds Blinds Location: 25-25a, East Street, Bedminster, Bristol, BS3 4HH Classification: Roller Shutter Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	161	-	358726 171672
130	<p>Contemporary Trade Directory Entries</p> <p>Name: Avon Chemicals Location: Unit 21, Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Classification: Chemicals & Allied Products Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	181	-	358717 171638
130	<p>Contemporary Trade Directory Entries</p> <p>Name: Sd Autos Location: Unit 5-6, Windmill Farm Business Centre, Bartley Street, Bristol, Avon, BS3 4DB Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A13SE (SE)	186	-	358753 171666
130	<p>Contemporary Trade Directory Entries</p> <p>Name: Bubble 1 Location: Unit 20, Windmill Farm Business Centre, Bartley St, Bristol, Avon, BS3 4DB Classification: Catering Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A13SE (SE)	187	-	358725 171636
130	<p>Contemporary Trade Directory Entries</p> <p>Name: T D Garage Services Location: Unit 20, Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	188	-	358726 171636
130	<p>Contemporary Trade Directory Entries</p> <p>Name: Exclusive Foods Location: Unit 18, Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Classification: Food Products - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	198	-	358739 171634
130	<p>Contemporary Trade Directory Entries</p> <p>Name: H C Slingsby Plc Location: Unit 17, Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Classification: Trolley, Truck & Barrow Makers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	206	-	358748 171630
130	<p>Contemporary Trade Directory Entries</p> <p>Name: Premier Autogas Location: Unit 17, Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Classification: Car Customisation & Conversion Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	206	-	358748 171630
130	<p>Contemporary Trade Directory Entries</p> <p>Name: M S M Motors Location: Unit 16, Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	214	-	358756 171627
130	<p>Contemporary Trade Directory Entries</p> <p>Name: Trump Cards Ltd Location: Unit 16, Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Classification: Greeting Card Publishers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	214	-	358756 171627
130	<p>Contemporary Trade Directory Entries</p> <p>Name: The Naked Kitchen Ltd Location: Unit 15, Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Classification: Food Products - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	221	-	358764 171625

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	<p>Contemporary Trade Directory Entries</p> <p>Name: Tri-Call Refrigeration Location: Unit 15, Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Classification: Refrigeration Equipment - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	221	-	358764 171625
131	<p>Contemporary Trade Directory Entries</p> <p>Name: Prestige Road Mark Ltd Location: 44-45, Coronation Road, Southville, Bristol, BS3 1AR Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (N)	171	-	358653 171974
132	<p>Contemporary Trade Directory Entries</p> <p>Name: Supasnaps Location: 67, East Street, Bedminster, Bristol, BS3 4HB Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (S)	178	-	358622 171604
133	<p>Contemporary Trade Directory Entries</p> <p>Name: Marshall Tyres Location: 6, Philip Street, Bedminster, Bristol, BS3 4EA Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	193	-	358797 171746
134	<p>Contemporary Trade Directory Entries</p> <p>Name: Klick Location: 93, East Street, Bedminster, Bristol, Avon, BS3 4EX Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	213	-	358553 171573
134	<p>Contemporary Trade Directory Entries</p> <p>Name: G P S Group Location: 1-2, Leicester Street, Bristol, BS3 4DE Classification: Electrical Engineers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	221	-	358589 171561
135	<p>Contemporary Trade Directory Entries</p> <p>Name: Britair Southwest Ltd Location: Unit 9, Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	220	-	358793 171663
135	<p>Contemporary Trade Directory Entries</p> <p>Name: Quista Business Supplies Ltd Location: Unit 9, Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Classification: Office Furniture & Equipment Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	221	-	358797 171668
136	<p>Contemporary Trade Directory Entries</p> <p>Name: Charman'S Joinery Location: Unit B, Charmans Buildings, Dean Lane, Bristol, BS3 1DD Classification: Joinery Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13NW (NW)	223	-	358396 171919
137	<p>Contemporary Trade Directory Entries</p> <p>Name: All Cars Bargains Location: 27, Nelson Parade, Bristol, BS3 4HY Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (E)	244	-	358842 171870
137	<p>Contemporary Trade Directory Entries</p> <p>Name: S M Lopres i Ice Cream Location: 70, Bedminster Parade, Bristol, BS3 4HL Classification: Ice Cream Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13NE (E)	250	-	358857 171823
137	<p>Contemporary Trade Directory Entries</p> <p>Name: D F Services Location: 66-68, Bedminster Parade, Bristol, BS3 4HL Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (E)	258	-	358864 171832

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	<p>Contemporary Trade Directory Entries</p> <p>Name: Swift Sure Print Location: 54-56, Bedminster Parade, Bristol, BS3 4HS Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (E)	277	-	358879 171855
137	<p>Contemporary Trade Directory Entries</p> <p>Name: Bedminster Domestic Appliances Ltd Location: 52, Bedminster Parade, Bristol, BS3 4HS Classification: Washing Machines - Servicing & Repairs Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13NE (E)	282	-	358883 171862
137	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Blue Crystal Glassworks Ltd Location: 50, Bedminster Parade, Bristol, BS3 4HS Classification: China & Glassware Manufacturers & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (E)	286	-	358887 171866
138	<p>Contemporary Trade Directory Entries</p> <p>Name: Bright House Location: 114-116, East Street, Bedminster, Bristol, BS3 4EY Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	245	-	358490 171559
138	<p>Contemporary Trade Directory Entries</p> <p>Name: Pets Palace Location: 126, East Street, Bedminster, Bristol, BS3 4ET Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	276	-	358462 171539
139	<p>Contemporary Trade Directory Entries</p> <p>Name: Ami Design Ltd Location: 25, Warden Road, BRISTOL, BS3 1BU Classification: Engineering Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	262	-	358406 171598
139	<p>Contemporary Trade Directory Entries</p> <p>Name: The Albany Panel Beating Co Location: 6 Albany Buildings, Dean Lane, Bristol, BS3 1BT Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	293	-	358378 171581
140	<p>Contemporary Trade Directory Entries</p> <p>Name: Stafford Street Garage Location: 6-16, Stafford Street, Bristol, BS3 4DA Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (S)	267	-	358629 171516
140	<p>Contemporary Trade Directory Entries</p> <p>Name: Impress Location: 18-32, Stafford Street, Bristol, BS3 4DA Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (S)	279	-	358638 171504
141	<p>Contemporary Trade Directory Entries</p> <p>Name: South Western Plastics Ltd Location: The Old Jail, Willway Street, Bristol, BS3 4BG Classification: Coating Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	278	-	358883 171738
141	<p>Contemporary Trade Directory Entries</p> <p>Name: Birdie Golf Location: 8a, Willway Street, Bristol, BS3 4BG Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	295	-	358898 171727
141	<p>Contemporary Trade Directory Entries</p> <p>Name: South Western Plastics Ltd Location: The Old Jail, Willway Street, Bristol, BS3 4BG Classification: Coating Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	295	-	358898 171727

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	<p>Contemporary Trade Directory Entries</p> <p>Name: Workbrands Location: Ferodo House, Willway Street, Bristol, Avon, BS3 4BG Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A13SE (E)	295	-	358898 171727
142	<p>Contemporary Trade Directory Entries</p> <p>Name: A M Reprographics Location: Unit 4, St. Catherines Trading Estate, Whitehouse Lane, Bristol, Avon, BS3 4DJ Classification: Copying & Duplicating Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	294	-	358748 171524
142	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Blue Glass Bedminster Location: Unit 5, St. Catherines Industrial Estate, Whitehouse Lane, Bristol, BS3 4DJ Classification: Glass Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	299	-	358758 171524
143	<p>Contemporary Trade Directory Entries</p> <p>Name: Minuteman Press Location: 15-19, Nelson Parade, Bristol, BS3 4HY Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	297	-	358882 171919
143	<p>Contemporary Trade Directory Entries</p> <p>Name: Minuteman Press Ltd Location: 15-19, Nelson Parade, Bristol, Avon, BS3 4HY Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	297	-	358882 171919
143	<p>Contemporary Trade Directory Entries</p> <p>Name: Impress Prime Location: 15-19, Nelson Parade, Bristol, BS3 4HY Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	297	-	358882 171919
143	<p>Contemporary Trade Directory Entries</p> <p>Name: Skyburst The Firework Co Location: 11, Nelson Parade, Bristol, BS3 4JA Classification: Firework Technicians, Manufacturers & Distribution Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	311	-	358892 171931
143	<p>Contemporary Trade Directory Entries</p> <p>Name: Skyburst Illuminations Ltd Location: 11, Nelson Parade, Bristol, Avon, BS3 4JA Classification: Firework Stockists Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	311	-	358892 171931
143	<p>Contemporary Trade Directory Entries</p> <p>Name: Skyburst The Firework Company Location: 11, Nelson Parade, Bristol, BS3 4JA Classification: Firework Stockists Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	311	-	358892 171931
144	<p>Contemporary Trade Directory Entries</p> <p>Name: A D Vice Location: Philip Street, Bedminster, Bristol, BS3 4EA Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	317	-	358895 171648
145	<p>Contemporary Trade Directory Entries</p> <p>Name: Family Cars Location: 6, Whitehouse Lane, BRISTOL, BS3 4DW Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	323	-	358824 171541

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
145	<p>Contemporary Trade Directory Entries</p> <p>Name: Cabot Motors Ltd Location: Clarke Street, Bristol, BS3 4DX Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	325	-	358791 171513
145	<p>Contemporary Trade Directory Entries</p> <p>Name: F Kelly Location: Whitehouse La, Bristol, BS3 4DN Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A13SE (SE)	354	-	358846 171520
145	<p>Contemporary Trade Directory Entries</p> <p>Name: Whitehouse Tyre Sales Location: 85-93, Whitehouse Lane, Bristol, BS3 4DN Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	368	-	358846 171501
146	<p>Contemporary Trade Directory Entries</p> <p>Name: Reclaimers Reclamation Location: The Mill Building, Cumberland Rd, Bristol, Avon, BS1 6XG Classification: Reclaiming - Waste Products Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A13NW (N)	328	-	358523 172134
147	<p>Contemporary Trade Directory Entries</p> <p>Name: Chessington Tyres Ltd Location: Unit 1/2, St. Catherines Industrial Estate, Whitehouse Lane, Bristol, BS3 4DJ Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	337	-	358741 171473
148	<p>Contemporary Trade Directory Entries</p> <p>Name: Shine Cleaning Bristol Ltd Location: 1, West End, Bristol, BS3 1AU Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NW (NW)	345	-	358305 172004
148	<p>Contemporary Trade Directory Entries</p> <p>Name: Shine Cleaning Bristol Ltd Location: 1, West End, Bristol, BS3 1AU Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NW (NW)	345	-	358305 172004
148	<p>Contemporary Trade Directory Entries</p> <p>Name: West End Service Station Location: 79, Coronation Road, Southville, Bristol, BS3 1AT Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NW (NW)	357	-	358302 172021
149	<p>Contemporary Trade Directory Entries</p> <p>Name: Go Fast Print Location: 15, Willway Street, Bristol, BS3 4BG Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	351	-	358947 171691
149	<p>Contemporary Trade Directory Entries</p> <p>Name: Doveton Press Ltd Location: 15, Willway Street, Bristol, BS3 4BG Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	351	-	358947 171691
150	<p>Contemporary Trade Directory Entries</p> <p>Name: Andrew Wheeler Location: 3, Wapping Road, Bristol, BS1 4RH Classification: Picture & Picture Frame Renovating & Restoring Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18SE (N)	361	-	358643 172171
151	<p>Contemporary Trade Directory Entries</p> <p>Name: Avon Exhaust Centre Location: 2, North Street, Bedminster, Bristol, BS3 1HT Classification: Exhaust & Shock Absorber Centres Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	366	-	358289 171576

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
151	<p>Contemporary Trade Directory Entries</p> <p>Name: Avon Exhaust Centre Location: 2, North Street, Bedminster, Bristol, Avon, BS3 1HT Classification: Exhaust & Shock Absorber Centres Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	366	-	358289 171576
151	<p>Contemporary Trade Directory Entries</p> <p>Name: Mjj Autos Ltd Location: Booth Rd, Bristol, Avon, BS3 1BP Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A13SW (SW)	372	-	358270 171595
151	<p>Contemporary Trade Directory Entries</p> <p>Name: Assimilate Systems Location: Booth Road, Bedminster, Bristol, BS3 1BP Classification: Engineering Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	372	-	358270 171595
152	<p>Contemporary Trade Directory Entries</p> <p>Name: A B C Engineering Supplies Ltd Location: 95-101, Whitehouse Lane, Bristol, BS3 4DN Classification: Fasteners & Fixing Devices Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	369	-	358829 171487
152	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Wire Rope Products Ltd Location: 95-101, Whitehouse Lane, Bristol, BS3 4DN Classification: Lifting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	369	-	358829 171487
152	<p>Contemporary Trade Directory Entries</p> <p>Name: S & S Autobodies Ltd Location: 111-115, Whitehouse Lane, Bristol, BS3 4DN Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	373	-	358807 171466
152	<p>Contemporary Trade Directory Entries</p> <p>Name: V M S Location: 111-115, Whitehouse Lane, Bristol, BS3 4DN Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	373	-	358807 171466
152	<p>Contemporary Trade Directory Entries</p> <p>Name: Carcraft Servicing & Mechanical Repairs Location: 103-109, Whitehouse Lane, Bristol, BS3 4DN Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	373	-	358807 171466
152	<p>Contemporary Trade Directory Entries</p> <p>Name: A 1 Cutting Formes Location: 117, Whitehouse Lane, Bristol, BS3 4DN Classification: Builders' Tools & Equipment Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NE (SE)	376	-	358794 171455
152	<p>Contemporary Trade Directory Entries</p> <p>Name: Alltow Recovery Location: 131-135, Whitehouse Lane, Bristol, BS3 4DN Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NE (SE)	376	-	358768 171442
152	<p>Contemporary Trade Directory Entries</p> <p>Name: Rogers Garage Services Location: 131-135, Whitehouse Lane, Bristol, BS3 4DN Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NE (SE)	376	-	358768 171442
152	<p>Contemporary Trade Directory Entries</p> <p>Name: K G Tyres Location: 119, Whitehouse Lane, Bristol, BS3 4DN Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NE (SE)	377	-	358788 171451

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
152	<p>Contemporary Trade Directory Entries</p> <p>Name: Whitehouse Discount Warehouse Location: 121, Whitehouse Lane, BRISTOL, BS3 4DN Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NE (SE)	377	-	358780 171447
153	<p>Contemporary Trade Directory Entries</p> <p>Name: Mildon Transport Ltd Location: 79-81, Whitehouse Lane, Bristol, BS3 4DN Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	375	-	358865 171510
153	<p>Contemporary Trade Directory Entries</p> <p>Name: Uk Carbody Ltd Location: 79-81, Whitehouse Lane, Bristol, BS3 4DN Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	375	-	358865 171510
153	<p>Contemporary Trade Directory Entries</p> <p>Name: M J Autos Location: 83, Whitehouse Lane, Bristol, BS3 4DN Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	377	-	358860 171502
153	<p>Contemporary Trade Directory Entries</p> <p>Name: Serjeant Commercials Location: 67-77, Whitehouse Lane, Bristol, BS3 4DN Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	379	-	358880 171518
153	<p>Contemporary Trade Directory Entries</p> <p>Name: Serjeant Commercial Vehicle Repairs Ltd Location: 67-77, Whitehouse Lane, Bristol, BS3 4DN Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	379	-	358880 171518
154	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol General Hospital Location: Bristol General Hospital, Guinea Street, Bristol, BS1 6SY Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	384	-	358845 172110
155	<p>Contemporary Trade Directory Entries</p> <p>Name: Chiltern Technical Systems Ltd Location: Morley Rd, Southville, Bristol, BS3 1DT Classification: Thermometers & Thermostats Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SE (W)	392	-	358201 171746
156	<p>Contemporary Trade Directory Entries</p> <p>Name: Cameron Engineering Location: St. Johns Street, Bedminster, Bristol, Avon, BS3 4NH Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	394	-	358396 171440
157	<p>Contemporary Trade Directory Entries</p> <p>Name: W J Farvis & Sons Ltd Location: Temple Works, Morley Road, Southville, Bristol, BS3 1DT Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	399	-	358208 171670
158	<p>Contemporary Trade Directory Entries</p> <p>Name: Moto-Tech Fleet Servicing Location: 43-55, Whitehouse Lane, Bristol, BS3 4DW Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (SE)	400	-	358940 171559
158	<p>Contemporary Trade Directory Entries</p> <p>Name: Whitehouse Bodyworks Ltd Location: 27-41, Whitehouse Lane, Bristol, BS3 4DW Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (SE)	421	-	358976 171579

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	<p>Contemporary Trade Directory Entries</p> <p>Name: Whitehouse Bodyworks Location: 27-41, Whitehouse Lane, Bristol, BS3 4DW Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (SE)	421	-	358976 171579
158	<p>Contemporary Trade Directory Entries</p> <p>Name: Vehicle Clinic Location: 27-33, Whitehouse Lane, Bristol, BS3 4DW Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SW (SE)	424	-	358981 171581
159	<p>Contemporary Trade Directory Entries</p> <p>Name: Assured Preservation & Maintenance Ltd Location: 16, North Street, Bedminster, Bristol, BS3 1HW Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	426	-	358232 171552
159	<p>Contemporary Trade Directory Entries</p> <p>Name: Wyatt & Ackerman Location: 30, North Street, Bedminster, Bristol, BS3 1HW Classification: Paper & Cardboard Products & Packaging - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	461	-	358198 171542
160	<p>Contemporary Trade Directory Entries</p> <p>Name: West House Transport Location: 20, Whitehouse Street, Bristol, BS3 4AY Classification: Distribution Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	429	-	359025 171678
160	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Hand Made Glass Location: 16 Whitehouse St, Bristol, BS3 4AY Classification: Stained Glass Designers & Producers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	434	-	359040 171740
160	<p>Contemporary Trade Directory Entries</p> <p>Name: Rollcall Supplies Location: 8, Willway Street, Bristol, BS3 4BG Classification: Cleaning Materials & Equipment Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	441	-	359048 171745
160	<p>Contemporary Trade Directory Entries</p> <p>Name: M M Creative Services Ltd Location: 8, Willway Street, Bristol, BS3 4BG Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	441	-	359048 171745
160	<p>Contemporary Trade Directory Entries</p> <p>Name: Creative Glass Guild Location: 16, Whitehouse Street, Bristol, BS3 4AY Classification: Stained Glass Designers & Producers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	441	-	359048 171745
160	<p>Contemporary Trade Directory Entries</p> <p>Name: Creative Glass Studios Location: 16, Whitehouse Street, Bristol, BS3 4AY Classification: Stained Glass Designers & Producers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	441	-	359048 171745
160	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Clutch & Brake Centre Location: 18, Whitehouse Street, Bristol, BS3 4AY Classification: Brake & Clutch Service Centres Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	453	-	359054 171705
161	<p>Contemporary Trade Directory Entries</p> <p>Name: The Floor Maintenance Advice Centre Location: St. Lukes Hall, William Street, Bedminster, Bristol, BS3 4BW Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	443	-	359046 171859

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Cars Location: 13, Sargent Street, Bristol, BS3 4BE Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	456	-	359064 171780
162	<p>Contemporary Trade Directory Entries</p> <p>Name: The Window Factory Location: 14, Whitehouse Street, Bristol, Avon, BS3 4AY Classification: Window Frame Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	463	-	359071 171766
163	<p>Contemporary Trade Directory Entries</p> <p>Name: 1st Class Location: 3, Merrywood Close, Bristol, BS3 1EA Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	459	-	358157 171634
164	<p>Contemporary Trade Directory Entries</p> <p>Name: Industrial Shot Blast & Spraying Location: Malago Road, Bristol, Avon, BS3 4JH Classification: Metal Finishing Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	465	-	358575 171318
165	<p>Contemporary Trade Directory Entries</p> <p>Name: G R C Leathers Location: 11, Waring House, Redcliff Hill, Bristol, Avon, BS1 6TB Classification: Leather Garments & Products Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (NE)	479	-	358981 172107
165	<p>Contemporary Trade Directory Entries</p> <p>Name: Avon Services Ltd Location: 8/9, Waring House, Redcliff Hill, Bristol, BS1 6TB Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (NE)	493	-	358988 172122
165	<p>Contemporary Trade Directory Entries</p> <p>Name: Argent Photographic Services Ltd Location: 7, Waring House, Redcliff Hill, Bristol, BS1 6TB Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (NE)	499	-	358991 172127
165	<p>Contemporary Trade Directory Entries</p> <p>Name: Keep It Clean Location: 6, Waring House, Redcliff Hill, Bristol, BS1 6TB Classification: Dry Cleaners Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14NW (NE)	503	-	358993 172131
165	<p>Contemporary Trade Directory Entries</p> <p>Name: Denture Repairs While-You-Wait Service Location: 5 Waring House, Redcliff Hill, Bristol, BS1 6TB Classification: Medical & Dental Laboratories Status: Active Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	508	-	358994 172138
166	<p>Contemporary Trade Directory Entries</p> <p>Name: Drake & Scull Engineering Ltd Location: 10, Whitehouse Street, Bristol, BS3 4AU Classification: Mechanical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	482	-	359090 171825
167	<p>Contemporary Trade Directory Entries</p> <p>Name: Scrap A Car Bristol Location: 1-9, Whitehouse Lane, Bristol, BS3 4DJ Classification: Car Component Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	488	-	359070 171625
167	<p>Contemporary Trade Directory Entries</p> <p>Name: Avon Combined Electrical Services Ltd Location: 1-9, Whitehouse Lane, Bristol, BS3 4DJ Classification: Mechanical Engineers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	491	-	359071 171621

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
168	<p>Contemporary Trade Directory Entries</p> <p>Name: Clean-A-Carpet Location: 40, Doudney Court, Bedminster, Bristol, BS3 4AP Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	507	-	359109 171874
168	<p>Contemporary Trade Directory Entries</p> <p>Name: Clean-A-Carpet Location: 40, Doudney Court, Bedminster, Bristol, BS3 4AP Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	507	-	359109 171874
168	<p>Contemporary Trade Directory Entries</p> <p>Name: O S I (Europe) Ltd Location: 23 Whitehouse St, Bristol, BS3 4AR Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A14NW (E)	534	-	359140 171842
168	<p>Contemporary Trade Directory Entries</p> <p>Name: Ap Location: Whitehouse Pl, Bristol, Avon, BS3 4BL Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A14NW (E)	558	-	359163 171854
169	<p>Contemporary Trade Directory Entries</p> <p>Name: Ocs Ltd Location: 39, Whitehouse Street, Bristol, BS3 4AY Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	509	-	359111 171711
169	<p>Contemporary Trade Directory Entries</p> <p>Name: Cannon Textiles Care Location: 35, Whitehouse Street, Bristol, BS3 4AY Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	518	-	359125 171758
170	<p>Contemporary Trade Directory Entries</p> <p>Name: Bedminster Motor Co Location: 4-12, West Street, Bedminster, Bristol, BS3 3LG Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	510	-	358296 171367
170	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Denture Repairs Ltd Location: 18, West Street, Bedminster, Bristol, Avon, BS3 3LG Classification: Medical & Dental Laboratories Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	525	-	358283 171358
171	<p>Contemporary Trade Directory Entries</p> <p>Name: Mr Clutch Location: Unit 6b, Malago Road, Bristol, BS3 4JQ Classification: Brake & Clutch Service Centres Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	512	-	358480 171283
171	<p>Contemporary Trade Directory Entries</p> <p>Name: Mr Clutch Location: Unit 7, Malago Road, Bristol, BS3 4JQ Classification: Brake & Clutch Service Centres Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	518	-	358472 171278
172	<p>Contemporary Trade Directory Entries</p> <p>Name: George Carr & Sons Saws Ltd Location: 37-47, North Street, Bedminster, Bristol, BS3 1EW Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	518	-	358163 171490
172	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Boiler Co Location: 50, North Street, Bedminster, Bristol, BS3 1HJ Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	536	-	358127 171514

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
173	<p>Contemporary Trade Directory Entries</p> <p>Name: Woodside Press Ltd Location: 22a, Islington Road, Bristol, BS3 1QB Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (W)	527	-	358096 171992
174	<p>Contemporary Trade Directory Entries</p> <p>Name: Breeze Carpet Cleaners Ltd Location: Flat 6, 56-58, North Street, Bristol, BS3 1HJ Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	552	-	358112 171508
175	<p>Contemporary Trade Directory Entries</p> <p>Name: Adams & Thompson (Contractors) Ltd Location: Taylors House, 4-10, Whitehouse Place, Bristol, BS3 4BL Classification: Tank Cleaning & Repairing Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	558	-	359161 171870
175	<p>Contemporary Trade Directory Entries</p> <p>Name: Atex Location: 11, Whitehouse Place, Bristol, BS3 4BL Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	560	-	359164 171865
175	<p>Contemporary Trade Directory Entries</p> <p>Name: Chemical Solutions (Uk) Ltd Location: Taylor Ho, Whitehouse Pl, Bristol, BS48 3AT Classification: Chemical Recycling & Disposal Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A14NW (E)	582	-	359187 171852
175	<p>Contemporary Trade Directory Entries</p> <p>Name: Denart Engineering Location: 14, Whitehouse Place, Bristol, BS3 4BL Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	587	-	359186 171902
175	<p>Contemporary Trade Directory Entries</p> <p>Name: G R B Auto Services Location: 14-16, Whitehouse Place, Bristol, Avon, BS3 4BL Classification: Mechanical Engineers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A14NW (E)	589	-	359191 171880
175	<p>Contemporary Trade Directory Entries</p> <p>Name: A P Autocare Ltd Location: 14-16, Whitehouse Place, Bristol, BS3 4BL Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	610	-	359214 171871
176	<p>Contemporary Trade Directory Entries</p> <p>Name: Eastman & Co Timber Ltd Location: Princess Street, Bedminster, Bristol, BS3 4AG Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	559	-	359167 171799
176	<p>Contemporary Trade Directory Entries</p> <p>Name: Premier Car Warehouse Location: Princess Street, Bedminster, Bristol, BS3 4AG Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	591	-	359199 171825
176	<p>Contemporary Trade Directory Entries</p> <p>Name: Teacrate Rentals Location: Princess House, Princess Street, Bedminster, Bristol, BS3 4AG Classification: Pallets, Crates & Packing Cases Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (E)	591	-	359199 171825
177	<p>Contemporary Trade Directory Entries</p> <p>Name: Kwik Fit Location: Unit 3, Malago Road, Bristol, BS3 4JQ Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	565	-	358429 171241

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	<p>Contemporary Trade Directory Entries</p> <p>Name: Jamjar Print Ltd Location: Unit 1, Princess Street, Bedminster, Bristol, BS3 4AG Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	567	-	359169 171706
179	<p>Contemporary Trade Directory Entries</p> <p>Name: Debut Sport Location: Unit 2, Sheene Road, Bristol, Avon, BS3 4EG Classification: Sports Equipment Manufacturers & Distributors Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A8NW (SW)	581	-	358324 171267
179	<p>Contemporary Trade Directory Entries</p> <p>Name: C & S Workshops Location: Sheene Rd, Bristol, BS3 4EG Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A8NW (SW)	589	-	358348 171246
179	<p>Contemporary Trade Directory Entries</p> <p>Name: D T M Petrol & Diesel Injection Specialists Ltd Location: Unit 1, Sheene Court Industrial Estate, Sheene Road, Bristol, Avon, BS3 4EG Classification: Fuel Injection Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	600	-	358348 171234
179	<p>Contemporary Trade Directory Entries</p> <p>Name: Porschtech Location: Unit 1, Sheene Road, BRISTOL, BS3 4EG Classification: Car Dealers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A8NW (SW)	612	-	358328 171230
179	<p>Contemporary Trade Directory Entries</p> <p>Name: Elite Auto Services Location: Unit 3, Sheene Court Industrial Estate, Sheene Road, Bristol, BS3 4EG Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	615	-	358312 171234
179	<p>Contemporary Trade Directory Entries</p> <p>Name: Gb Motorcross Ltd Location: Unit 3, Sheene Court Industrial Estate, Sheene Road, Bristol, BS3 4EG Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	616	-	358312 171234
179	<p>Contemporary Trade Directory Entries</p> <p>Name: Elite Automotive Services Ltd Location: Unit 3, Sheene Road, Bristol, BS3 4EG Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	623	-	358322 171220
179	<p>Contemporary Trade Directory Entries</p> <p>Name: Artworks Solutions Ltd Location: Unit 4, Sheene Court Industrial Estate, Sheene Road, Bristol, Avon, BS3 4EG Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A8NW (SW)	627	-	358301 171227
179	<p>Contemporary Trade Directory Entries</p> <p>Name: Insight Print Media Location: Unit 4, Sheene Road, Bristol, BS3 4EG Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	627	-	358301 171227
179	<p>Contemporary Trade Directory Entries</p> <p>Name: C & N Pork Supplies Ltd Location: Unit 5/6, Sheene Court Industrial Estate, Sheene Road, Bristol, BS3 4EG Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	651	-	358290 171206
180	<p>Contemporary Trade Directory Entries</p> <p>Name: A B S Location: 5, Orwell Street, Bristol, BS3 4LN Classification: Vehicle Inspection Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	586	-	359023 171368

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
181	<p>Contemporary Trade Directory Entries</p> <p>Name: Bedminster & Bristol Scrap Location: 12 Whitehouse Pl, Bristol, Avon, BS3 4BL Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A14NW (E)	592	-	359197 171853
182	<p>Contemporary Trade Directory Entries</p> <p>Name: Avon Pet & Garden Centre Location: 73, North Street, Bedminster, Bristol, Avon, BS3 1ES Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	612	-	358068 171465
183	<p>Contemporary Trade Directory Entries</p> <p>Name: Carpet Co Location: 75, North Street, Bedminster, Bristol, Avon, BS3 1ES Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	617	-	358064 171462
183	<p>Contemporary Trade Directory Entries</p> <p>Name: Progressive Cleaning Ltd Location: 80, North Street, Bedminster, Bristol, BS3 1HJ Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	628	-	358038 171486
183	<p>Contemporary Trade Directory Entries</p> <p>Name: Stafford'S Dry Cleaners Location: 82, North Street, Bedminster, Bristol, BS3 1HF Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	644	-	358020 171484
184	<p>Contemporary Trade Directory Entries</p> <p>Name: Jamieson Auto Engineers Location: 39-41, West Street, Bedminster, Bristol, BS3 3NS Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	619	-	358231 171279
184	<p>Contemporary Trade Directory Entries</p> <p>Name: 54 West Street Ltd Location: Bedminster, Bristol, Avon, BS3 3LH Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A7NE (SW)	624	-	358205 171292
184	<p>Contemporary Trade Directory Entries</p> <p>Name: Alusage Brunel Ltd Location: 54, West Street, Bedminster, Bristol, BS3 3LH Classification: Aluminium Fabricators Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	630	-	358188 171298
184	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Automart Location: 36-54, West Street, Bedminster, Bristol, BS3 3LH Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	630	-	358188 171298
184	<p>Contemporary Trade Directory Entries</p> <p>Name: West Street Mot & Service Centre Ltd Location: 54, West Street, Bedminster, Bristol, BS3 3LH Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	630	-	358188 171298
185	<p>Contemporary Trade Directory Entries</p> <p>Name: Vee W Services Location: Unit 2, Princess Street, Bedminster, Bristol, BS3 4AG Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	619	-	359226 171746
185	<p>Contemporary Trade Directory Entries</p> <p>Name: George Bence & Sons Ltd Location: Princess St, Bedminster, Bristol, Avon, BS3 4AG Classification: Builders' Merchants Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A14SW (E)	621	-	359229 171788

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
185	<p>Contemporary Trade Directory Entries</p> <p>Name: Azimuth Print Ltd Location: Unit 2a, Princess Street, Bedminster, Bristol, BS3 4AG Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	630	-	359237 171752
185	<p>Contemporary Trade Directory Entries</p> <p>Name: Dynamic Packaging Ltd Location: Princess Street, Bedminster, Bristol, BS3 4AG Classification: Case Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	662	-	359270 171766
185	<p>Contemporary Trade Directory Entries</p> <p>Name: Projects Distribution Location: Princess Street, Bedminster, BRISTOL, BS3 4BN Classification: Sports Equipment Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SE (E)	680	-	359288 171776
185	<p>Contemporary Trade Directory Entries</p> <p>Name: S B A Ltd Location: Princess Street, Bedminster, Bristol, BS3 4BN Classification: Hose, Tubing & Fittings Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14SE (E)	680	-	359288 171776
186	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Bumper Repairs Location: Camden Rd, Bristol, Avon, BS3 1QA Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A12NE (W)	627	-	357991 171994
186	<p>Contemporary Trade Directory Entries</p> <p>Name: K S Bodyworks Location: Camden Road, Bristol, BS3 1QA Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NE (W)	651	-	357980 172036
187	<p>Contemporary Trade Directory Entries</p> <p>Name: Hinton Garage Location: Unit D, Malago Vale Trading Estate, St. Johns Lane, Bristol, BS3 5BQ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	634	-	358509 171154
187	<p>Contemporary Trade Directory Entries</p> <p>Name: Hinton Rescue Location: Unit D, Malago Vale Trading Estate, St. Johns Lane, Bristol, Avon, BS3 5BQ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	634	-	358509 171154
188	<p>Contemporary Trade Directory Entries</p> <p>Name: Marsh Lane Bodyworks Location: 53-55, British Road, Bristol, BS3 3BT Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	634	-	358168 171310
188	<p>Contemporary Trade Directory Entries</p> <p>Name: Marsh Lane Bodyworks Location: 53-55, British Road, Bristol, BS3 3BT Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	634	-	358168 171310
189	<p>Contemporary Trade Directory Entries</p> <p>Name: Brooks Radio Systems Location: Hebron House, Sion Road, Bristol, Avon, BS3 3BD Classification: Radio Communication Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A7NE (SW)	650	-	358096 171361
189	<p>Contemporary Trade Directory Entries</p> <p>Name: Phineas Products Ltd Location: Unit 1, Hebron House, Sion Road, Bristol, BS3 3BD Classification: Shop Fittings Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	650	-	358096 171361

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
189	<p>Contemporary Trade Directory Entries</p> <p>Name: Out Of Hand Ltd Location: Hebron House, Sion Road, Bristol, BS3 3BD Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	652	-	358096 171358
190	<p>Contemporary Trade Directory Entries</p> <p>Name: Well Mother Suzanne Yates Location: 24, Dunkerry Road, Bristol, BS3 4LB Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NE (S)	664	-	358812 171150
191	<p>Contemporary Trade Directory Entries</p> <p>Name: Safe Options Location: 4-5, The Grove, Bristol, BS1 4QZ Classification: Safes & Vaults - Suppliers & Installers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18SE (N)	673	-	358844 172439
191	<p>Contemporary Trade Directory Entries</p> <p>Name: Monks Consultants Location: 30, Queen Square, Bristol, Avon, BS1 4ND Classification: Gas Suppliers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A18SE (N)	676	-	358813 172453
192	<p>Contemporary Trade Directory Entries</p> <p>Name: Bedminster Motor Services Location: Unit C, Malago Vale Trading Estate, St. Johns Lane, Bristol, BS3 5BQ Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	674	-	358472 171119
193	<p>Contemporary Trade Directory Entries</p> <p>Name: Modal Electronics Location: Mariner House, 62, Prince Street, Bristol, BS1 4QD Classification: Musical Instrument - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	675	-	358608 172488
193	<p>Contemporary Trade Directory Entries</p> <p>Name: Harris & Co Location: Farris Lane, Bristol, BS1 4PZ Classification: Cleaning Materials & Equipment Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18NW (N)	679	-	358598 172492
194	<p>Contemporary Trade Directory Entries</p> <p>Name: V E W Services Ltd Spring Street Location: Unit 1 Victoria Grove, Bristol, Avon, BS3 4AN Classification: Garage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality</p>	A14NE (E)	675	-	359280 171864
194	<p>Contemporary Trade Directory Entries</p> <p>Name: Paul O'Brien Roofing & Building Location: Unit 5 Victoria Grove, Bristol, Avon, BS3 4AN Classification: Electricity Generating & Distributing Equipment Status: Active Positional Accuracy: Manually positioned within the geographical locality</p>	A14NE (E)	700	-	359304 171868
194	<p>Contemporary Trade Directory Entries</p> <p>Name: C T Garages Location: Victoria Grove, Bristol, BS3 4AN Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	713	-	359317 171872
194	<p>Contemporary Trade Directory Entries</p> <p>Name: Robins & Day Location: Spring Street, Bedminster, Bristol, BS3 4PZ Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	746	-	359349 171884
195	<p>Contemporary Trade Directory Entries</p> <p>Name: Anthony'S Motors Location: 92-100, North Street, Bedminster, Bristol, BS3 1HF Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	679	-	357971 171507

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
195	<p>Contemporary Trade Directory Entries</p> <p>Name: Autopoint Location: 92-100, North Street, Bedminster, Bristol, BS3 1HF Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	684	-	357970 171497
196	<p>Contemporary Trade Directory Entries</p> <p>Name: Forward Bird Control Location: Redcliff Hill, Bristol, Avon, BS1 6SJ Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A19SW (NE)	681	-	359062 172315
197	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Classic Boat Co Location: Redcliffe Wharf, Redcliffe Way, Bristol, BS1 6SR Classification: Boatbuilders & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	689	-	358993 172380
198	<p>Contemporary Trade Directory Entries</p> <p>Name: Cleevewood Motors Location: 70, West Street, Bedminster, Bristol, BS3 3LL Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	693	-	358157 171243
199	<p>Contemporary Trade Directory Entries</p> <p>Name: Avon Services Location: Unit 3, Bedminster Trade Park, Sheene Way, Bedminster, Bristol, BS3 4TA Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	722	-	358272 171135
199	<p>Contemporary Trade Directory Entries</p> <p>Name: Avon Services Ltd Location: Unit 3, Bedminster Trade Park, Sheene Way, Bedminster, Bristol, BS3 4TA Classification: Cleaning Materials & Equipment Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	722	-	358272 171135
200	<p>Contemporary Trade Directory Entries</p> <p>Name: Dr D S Kessler - Gaywood House Surgery Location: Gaywood House, North Street, Bedminster, Bristol, BS3 3AZ Classification: Do It Yourself Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	731	-	357979 171383
201	<p>Contemporary Trade Directory Entries</p> <p>Name: Willett & Son Ltd Location: 51, Queen Square, Bristol, BS1 4LJ Classification: Agricultural Merchants Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	731	-	358668 172540
201	<p>Contemporary Trade Directory Entries</p> <p>Name: Willett & Son (Bristol) Ltd Location: 51, Queen Square, Bristol, BS1 4LJ Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	731	-	358668 172540
201	<p>Contemporary Trade Directory Entries</p> <p>Name: Proctors Fertilisers Location: 51, Queen Square, Bristol, BS1 4LH Classification: Fertilisers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	731	-	358668 172540
202	<p>Contemporary Trade Directory Entries</p> <p>Name: Chaplin Fabrications Location: Iron Masters, Cotswold Rd, Bristol, Avon, BS3 4NS Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A8SW (S)	739	-	358570 171044
203	<p>Contemporary Trade Directory Entries</p> <p>Name: Clinton Car Sales Location: Clinton Road, Bristol, BS3 5PB Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	747	-	358394 171062

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
203	<p>Contemporary Trade Directory Entries</p> <p>Name: N W Cooling Ltd Location: 25, Clinton Road, BRISTOL, BS3 5PB Classification: Air Conditioning & Refrigeration Contractors Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	792	-	358379 171019
204	<p>Contemporary Trade Directory Entries</p> <p>Name: John Knight Location: 120-140 North St, Bedminster, Bristol, Avon, BS3 1HF Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	753	-	357916 171449
205	<p>Contemporary Trade Directory Entries</p> <p>Name: D N A Defence Location: Queen Square House, 18-21, Queen Square, Bristol, BS1 4NH Classification: Laboratories Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	755	-	358873 172516
206	<p>Contemporary Trade Directory Entries</p> <p>Name: Square Systems Ltd Location: 10, Vicarage Road, Southville, Bristol, Avon, BS3 1PD Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	758	-	357844 171656
207	<p>Contemporary Trade Directory Entries</p> <p>Name: Selco Location: Unit 1, Sheene Way, Bedminster, BRISTOL, BS3 4SZ Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8SW (SW)	770	-	358279 171079
208	<p>Contemporary Trade Directory Entries</p> <p>Name: Bedminster Domestic Appliances Location: 86-90, West Street, Bedminster, Bristol, BS3 3LL Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	772	-	358126 171166
209	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Commercial Vehicles Location: 130-140, North Street, Bedminster, Bristol, BS3 1HF Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	774	-	357892 171450
209	<p>Contemporary Trade Directory Entries</p> <p>Name: South Bristol Cars Location: 130-140, North Street, Bedminster, Bristol, BS3 1HF Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	774	-	357892 171450
209	<p>Contemporary Trade Directory Entries</p> <p>Name: Crago Motors Location: Exmoor Street, Bristol, BS3 1HD Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	815	-	357848 171448
210	<p>Contemporary Trade Directory Entries</p> <p>Name: Waghorn Guitars Location: 1, Mill Avenue, Bristol, BS1 4AJ Classification: Musical Instrument - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	782	-	358888 172539
210	<p>Contemporary Trade Directory Entries</p> <p>Name: Alphagraphics Location: 13, Queen Square, Bristol, Avon, BS1 4NT Classification: Printers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A18NE (N)	815	-	358886 172575
210	<p>Contemporary Trade Directory Entries</p> <p>Name: Alphagraphics Location: 13, Queen Square, BRISTOL, BS1 4NT Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	815	-	358886 172575

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
210	<p>Contemporary Trade Directory Entries</p> <p>Name: Hobs Reprographics Plc Location: King William House, 13, Queen Square, Bristol, BS1 4NT Classification: Copying & Duplicating Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	815	-	358886 172575
210	<p>Contemporary Trade Directory Entries</p> <p>Name: Anexsys Bristol Location: King William House, 13, Queen Square, Bristol, BS1 4NT Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	827	-	358875 172592
211	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Reclamation Location: 3, Park Road, Southville, Bristol, BS3 1PU Classification: Paint & Varnish Stripping Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	785	-	357844 172049
212	<p>Contemporary Trade Directory Entries</p> <p>Name: The Caring Cartridge Location: 7-9, Spring Street Place, Bristol, Avon, BS3 4AF Classification: Recycling Centres Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	786	-	359387 171901
213	<p>Contemporary Trade Directory Entries</p> <p>Name: Ikon Construction Location: Windsor House, Greville Rd, Bristol, Avon, BS3 1LL Classification: Concrete Contractors Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A12SW (W)	795	-	357833 171544
214	<p>Contemporary Trade Directory Entries</p> <p>Name: Capital Preservations Location: 20, Dunford Road, Bristol, BS3 4PW Classification: Woodworm Control Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A9SW (SE)	802	-	358948 171056
215	<p>Contemporary Trade Directory Entries</p> <p>Name: Pro-Wipe Ltd Location: Huller Ho, Redcliff Backs, Bristol, BS1 6HX Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A19NW (NE)	812	-	359020 172508
216	<p>Contemporary Trade Directory Entries</p> <p>Name: S & H Services Ltd Location: 13, Raleigh Road, Bristol, BS3 1QP Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	814	-	357786 171932
217	<p>Contemporary Trade Directory Entries</p> <p>Name: A T Sack Fillers Location: The Mission, Brendon Road, Bristol, BS3 4PX Classification: Packaging & Wrapping Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	815	-	358858 171006
218	<p>Contemporary Trade Directory Entries</p> <p>Name: Beaulley Motor Services Ltd Location: Unit 1, Cooperage Lane, Bristol, BS3 1PL Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	837	-	357778 172008
218	<p>Contemporary Trade Directory Entries</p> <p>Name: Brijport Brian Location: Unit 1, Cooperage Lane, Bristol, BS3 1PL Classification: Machine Tool Accessories & Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	837	-	357778 172008
218	<p>Contemporary Trade Directory Entries</p> <p>Name: Beaulley Motor Services Location: Unit 1, Cooperage Lane, Bristol, BS3 1PL Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	839	-	357777 172015

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
218	Contemporary Trade Directory Entries Name: Beasley Motor Services Location: Unit 1, Cooperage Lane, Bristol, BS3 1PL Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	839	-	357777 172015
218	Contemporary Trade Directory Entries Name: Karman Autocare Location: Unit 3, Cooperage Lane, Bristol, Avon, BS3 1PL Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	862	-	357752 172005
218	Contemporary Trade Directory Entries Name: Skyburst Illuminations Location: Unit 4, Cooperage Lane, Bristol, BS3 1PL Classification: Firework Stockists Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	862	-	357752 172005
219	Contemporary Trade Directory Entries Name: Total Care Cleaning Ltd Location: 252, St. Johns Lane, Bristol, Avon, BS3 5AU Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	842	-	358914 170998
219	Contemporary Trade Directory Entries Name: Linda Bracey Total Cleaning Ltd Location: 252, St. Johns Lane, Bristol, Avon, BS3 5AU Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	842	-	358914 170998
220	Contemporary Trade Directory Entries Name: Njf Location: 5, Birch Road, Southville, Bristol, BS3 1PE Classification: Woodburning Stoves Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	856	-	357735 171845
221	Contemporary Trade Directory Entries Name: Unipage Ltd Location: 4, Queen Square, Bristol, BS1 4JQ Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	860	-	358814 172645
222	Contemporary Trade Directory Entries Name: Pacific Plastics Location: Greville Road Works, Greville Road, Bristol, BS3 1LL Classification: Plastics - Injection Moulding Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A12SW (W)	866	-	357755 171557
223	Contemporary Trade Directory Entries Name: Westway Municipal Vehicle Hire Location: Flat 1, The Atrium, 60, Redcliff Street, Bristol, Avon, BS1 6LS Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	872	-	359123 172512
224	Contemporary Trade Directory Entries Name: V R G O Location: 1, Canons Road, Bristol, BS1 5TX Classification: Computer Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	874	-	358528 172685
225	Contemporary Trade Directory Entries Name: Your Choice Location: 210, St. Johns Lane, Bristol, BS3 5AU Classification: Window Frames - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	876	-	359016 171007
226	Contemporary Trade Directory Entries Name: D L Smythe Location: 28 Gas Ferry Rd, Bristol, BS1 6UN Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	877	-	357856 172290

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
226	<p>Contemporary Trade Directory Entries</p> <p>Name: Christopher Berry Location: Gas Ferry Road, Bristol, Avon, BS1 6UN Classification: Boatbuilders & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SW (NW)	899	-	357835 172298
227	<p>Contemporary Trade Directory Entries</p> <p>Name: Pest Solutions Ltd Location: Broad Quay House, Broad Quay, Bristol, BS1 4DJ Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	884	-	358622 172697
227	<p>Contemporary Trade Directory Entries</p> <p>Name: Uk Cleaning Location: Broad Quay House, Broad Quay, Bristol, BS1 4DJ Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	884	-	358622 172697
227	<p>Contemporary Trade Directory Entries</p> <p>Name: Carbon Gold Location: Broad Quay House, Broad Quay, Bristol, Avon, BS1 4DJ Classification: Carbon Products Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	884	-	358622 172697
227	<p>Contemporary Trade Directory Entries</p> <p>Name: Uk Cleaning Location: Broad Quay House, Broad Quay, Bristol, Avon, BS1 4DJ Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	884	-	358622 172697
227	<p>Contemporary Trade Directory Entries</p> <p>Name: Pest Solutions Ltd Location: Broad Quay House, Broad Quay, Bristol, BS1 4DJ Classification: Pest & Vermin Control Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	884	-	358622 172697
227	<p>Contemporary Trade Directory Entries</p> <p>Name: Cycle Therapist Location: Broad Quay House, Broad Quay, Bristol, Avon, BS1 4DJ Classification: Motor Cycle Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A18NE (N)	884	-	358622 172697
228	<p>Contemporary Trade Directory Entries</p> <p>Name: Printech Location: Unit 5B, Cooperage Lane, Bristol, BS3 1PL Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	889	-	357724 172005
228	<p>Contemporary Trade Directory Entries</p> <p>Name: Simply Car Services Location: Unit 5, Cooperage La, Bristol, BS3 1PL Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A12NW (W)	889	-	357724 172004
228	<p>Contemporary Trade Directory Entries</p> <p>Name: Karly Cars Location: Unit 5, Cooperage Lane, Bristol, Avon, BS3 1PL Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	889	-	357724 172005
229	<p>Contemporary Trade Directory Entries</p> <p>Name: Bell Tools Location: 311, St. Johns Lane, Bristol, BS3 5AZ Classification: Builders' Tools & Equipment Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	896	-	358809 170909
230	<p>Contemporary Trade Directory Entries</p> <p>Name: Roy Coomber Location: 1, Upton Road, Bristol, BS3 1LW Classification: Stained Glass Designers & Producers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	896	-	357693 171815

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
230	<p>Contemporary Trade Directory Entries</p> <p>Name: J A C Imports Location: Unit G,1 Upton Rd, Bristol, Avon, BS3 1LW Classification: Lingerie & Hosiery Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A12NW (W)	897	-	357693 171814
231	<p>Contemporary Trade Directory Entries</p> <p>Name: Dick Lovett Ltd Location: Portwall Lane, Bristol, Avon, BS1 6NG Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	901	-	359243 172447
231	<p>Contemporary Trade Directory Entries</p> <p>Name: Dick Lovett Location: Portwall Lane, Bristol, Avon, BS1 6NG Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	901	-	359243 172447
231	<p>Contemporary Trade Directory Entries</p> <p>Name: Affordable Cleaning Location: 71, St. Thomas Street, Bristol, BS1 6JZ Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	912	-	359244 172462
231	<p>Contemporary Trade Directory Entries</p> <p>Name: Mailboxes E T C Location: 71, St. Thomas Street, Bristol, BS1 6JZ Classification: Freight Forwarders Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	912	-	359244 172462
232	<p>Contemporary Trade Directory Entries</p> <p>Name: Newavon Arms Location: 28, Bedminster Road, Bristol, BS3 5PD Classification: Gunsmiths Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	902	-	358392 170903
233	<p>Contemporary Trade Directory Entries</p> <p>Name: Eurotex Ltd Location: Buchanans Wharf South, Ferry St, Bristol, Avon, BS1 6HJ Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A19NW (NE)	904	-	359007 172620
234	<p>Contemporary Trade Directory Entries</p> <p>Name: Hulley & Kirkwood Location: Venturers House, Prince Street Roundabout, Bristol, Avon, BS1 4PB Classification: Mechanical Engineers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A18NE (N)	912	-	358687 172720
235	<p>Contemporary Trade Directory Entries</p> <p>Name: Puppet Place Location: Unit 18, Albion Dockside Estate, Hanover Place, Bristol, BS1 6UT Classification: Powder Coatings Status: Active Positional Accuracy: Automatically positioned to the address</p>	A17SW (NW)	915	-	357774 172222
236	<p>Contemporary Trade Directory Entries</p> <p>Name: Technical Support Services Location: 29, Ruby Street, Bristol, BS3 3DX Classification: Electronic Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	915	-	357874 171215
237	<p>Contemporary Trade Directory Entries</p> <p>Name: Network Rail Location: Redcliffe Way, Bristol, BS1 6NL Classification: Railways Status: Active Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	916	-	359344 172352
238	<p>Contemporary Trade Directory Entries</p> <p>Name: K Ager Location: 10, Agate Street, Bristol, BS3 3AG Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	918	-	357764 171385

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
239	<p>Contemporary Trade Directory Entries</p> <p>Name: Bargain Parking Location: 44 Redcliff Street, Bristol, Avon, BS1 6LL Classification: Car Painters & Sprayers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A19NW (NE)	932	-	359113 172591
239	<p>Contemporary Trade Directory Entries</p> <p>Name: Kwik Fit Location: 46, Redcliff Street, Bristol, BS1 6LL Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19NW (NE)	932	-	359113 172591
239	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Blue Glass Ltd Location: 5, Three Queens Lane, Bristol, BS1 6LG Classification: Glass Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19NW (NE)	958	-	359144 172602
240	<p>Contemporary Trade Directory Entries</p> <p>Name: Smarts Car Sales Location: 171-178, Coronation Road, Southville, Bristol, Avon, BS3 1RF Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	932	-	357688 172043
240	<p>Contemporary Trade Directory Entries</p> <p>Name: Smarts Car Sales Location: Coronation Rd, Southville, Bristol, Avon, BS3 1RF Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A12NW (W)	975	-	357648 172057
241	<p>Contemporary Trade Directory Entries</p> <p>Name: Contour Catering Equipment Location: 26, St. Thomas Street, Bristol, BS1 6JZ Classification: Catering Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19NW (NE)	950	-	359183 172565
242	<p>Contemporary Trade Directory Entries</p> <p>Name: Robins & Day Location: Clarence Road, Bristol, Avon, BS1 6PR Classification: Car Dealers Status: Active Positional Accuracy: Manually positioned within the geographical locality</p>	A19SE (E)	952	-	359490 172164
242	<p>Contemporary Trade Directory Entries</p> <p>Name: Robins & Day Express Fit Location: Clarence Road, Bristol, Avon, BS1 6PR Classification: Exhaust & Shock Absorber Centres Status: Active Positional Accuracy: Manually positioned within the geographical locality</p>	A19SE (E)	952	-	359490 172164
243	<p>Contemporary Trade Directory Entries</p> <p>Name: Templegate Electrical Supplies Ltd Location: Unit 5, Temple Gate Distribution Centre, Mead Street, Bristol, BS3 4RP Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	962	-	359555 171964
243	<p>Contemporary Trade Directory Entries</p> <p>Name: European Fleet Management Ltd Location: Mead Rise, Bristol, BS3 4RW Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A14NE (E)	995	-	359590 171955
244	<p>Contemporary Trade Directory Entries</p> <p>Name: West Street Autobodies Location: Stenners Yard, St. Johns Lane, BRISTOL, BS3 5BD Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	965	-	358590 170817
245	<p>Contemporary Trade Directory Entries</p> <p>Name: R M J Cross & Partners Location: 200, North Street, Bedminster, Bristol, BS3 1JF Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NW (W)	966	-	357682 171456

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
246	<p>Contemporary Trade Directory Entries</p> <p>Name: Graphic Image (Business Forms) Ltd Location: Malago House, Bedminster Road, Bristol, BS3 5PE Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	969	-	358434 170827
247	<p>Contemporary Trade Directory Entries</p> <p>Name: Planet Blue Location: 40, St. Lukes Crescent, Bristol, BS3 4SD Classification: Energy Efficient Products and Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SE (E)	975	-	359575 171662
248	<p>Contemporary Trade Directory Entries</p> <p>Name: Sovereign Corporation Ltd Location: 133, Cumberland Road, Bristol, Avon, BS1 6UX Classification: Medical Equipment Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A17SW (NW)	976	-	357694 172195
248	<p>Contemporary Trade Directory Entries</p> <p>Name: D J L Bakery Systems Location: 133, Cumberland Road, Bristol, Avon, BS1 6UX Classification: Catering Equipment - Servicing & Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A17SW (NW)	976	-	357694 172195
248	<p>Contemporary Trade Directory Entries</p> <p>Name: Engineered Bicycles Ltd Within Spike Design Location: 133, Cumberland Road, Bristol, BS1 6UX Classification: Cycle Accessories, Manufacturers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A17SW (W)	999	-	357664 172182
248	<p>Contemporary Trade Directory Entries</p> <p>Name: Spike Print Studios Location: 133, Cumberland Road, Bristol, BS1 6UX Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A17SW (W)	999	-	357664 172182
248	<p>Contemporary Trade Directory Entries</p> <p>Name: X O Home Location: 133, Cumberland Road, Bristol, BS1 6UX Classification: Automation Systems & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SW (W)	999	-	357664 172182
249	<p>Contemporary Trade Directory Entries</p> <p>Name: Aztec Printing & Graphics Ltd Location: 42a, College Green, Bristol, BS1 5SH Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NW (N)	977	-	358482 172784
250	<p>Contemporary Trade Directory Entries</p> <p>Name: Blaze Design Ltd Location: Raleigh Rd, Bristol, Avon, BS3 1QU Classification: Seating Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A12SW (W)	984	-	357606 171782
251	<p>Contemporary Trade Directory Entries</p> <p>Name: Traditional Boat Supplies Ltd Location: Abels Boatbuilders, Albion Dockside Estate, Hanover Place, Bristol, BS1 6TZ Classification: Marine Equipment & Supplies Status: Active Positional Accuracy: Automatically positioned to the address</p>	A17SW (NW)	987	-	357756 172337
251	<p>Contemporary Trade Directory Entries</p> <p>Name: Bristol Sails Location: Albion Dockside Estate, Hanover Place, Bristol, BS1 6TZ Classification: Sailmakers & Repairers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SW (NW)	989	-	357736 172309
251	<p>Contemporary Trade Directory Entries</p> <p>Name: Force 4 Chandlery Location: Albion Dockside Estate, Hanover Place, Bristol, BS1 6UT Classification: Marine Equipment & Supplies Status: Active Positional Accuracy: Automatically positioned to the address</p>	A17SW (NW)	992	-	357735 172313

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
252	<p>Contemporary Trade Directory Entries</p> <p>Name: I D G Engineering Ltd Location: Unit 1/3, Albion Dockside Estate, Hanover Place, Bristol, Avon, BS1 6UT Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SW (NW)	989	-	357709 172259
252	<p>Contemporary Trade Directory Entries</p> <p>Name: Fuel Equipment Supplies Ltd Location: Unit 1-3, Albion Dockside Estate, Hanover Place, Bristol, Avon, BS1 6UT Classification: Pumps - Sales, Servicing & Repairs Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A17SW (NW)	989	-	357709 172259
252	<p>Contemporary Trade Directory Entries</p> <p>Name: D Abels Location: Albion Dockside Estate, Hanover Place, Bristol, Avon, BS1 6UT Classification: Ship Builders, Repairs & Fittings Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SW (NW)	999	-	357695 172253
252	<p>Contemporary Trade Directory Entries</p> <p>Name: Glenroy Precision Engineering Ltd Location: Albion Dockside Estate, Hanover Place, Bristol, Avon, BS1 6UT Classification: Mechanical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SW (NW)	999	-	357695 172253
253	<p>Contemporary Trade Directory Entries</p> <p>Name: United Bristol Healthcare Nhs Trust Location: Martin St, Bristol, Avon, BS3 3EE Classification: Hospitals Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A7NW (SW)	989	-	357717 171320
254	<p>Contemporary Trade Directory Entries</p> <p>Name: Apex Cleaning Services Location: Central Telephone Exchange, Telephone Avenue, Bristol, BS1 4BH Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	991	-	358734 172794
254	<p>Contemporary Trade Directory Entries</p> <p>Name: South West Communications Group Ltd Location: Central Telephone Exchange, Telephone Avenue, Bristol, BS1 4BH Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	991	-	358734 172794
254	<p>Contemporary Trade Directory Entries</p> <p>Name: Ash & Lacy Perforators Location: Central Telephone Exchange, Telephone Avenue, Bristol, Avon, BS1 4BH Classification: Metal Products - Fabricated Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	991	-	358734 172794
254	<p>Contemporary Trade Directory Entries</p> <p>Name: Mccoy-Hill Location: Central Telephone Exchange, Telephone Avenue, Bristol, BS1 4BH Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	991	-	358734 172794
255	<p>Contemporary Trade Directory Entries</p> <p>Name: Shell York Road Service Station Location: York Road Service Station, York Road, Bedminster, Bristol, BS3 4AB Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	997	-	359569 172068
255	<p>Contemporary Trade Directory Entries</p> <p>Name: Shell Service Station Location: York Road Service Station, York Road, Bedminster, Bristol, BS3 4AB Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	997	-	359569 172068
255	<p>Contemporary Trade Directory Entries</p> <p>Name: Texaco Location: York Road, Bedminster, Bristol, Avon, BS3 4AL Classification: Petrol Filling Stations - 24 Hour Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	997	-	359569 172068

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
255	Contemporary Trade Directory Entries Name: Symonds Forecourts Ltd Location: York Road Service Station, York Road, Bedminster, Bristol, BS3 4AB Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	997	-	359568 172068
256	Fuel Station Entries Name: Asda Bristol Bedminster Automat Location: Coronation Road, Bedminster, Bristol, Bristol, City Of, BS3 4JY Brand: Asda Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	275	-	358808 171996
257	Fuel Station Entries Name: West End Service Station Location: 79, Coronation Road, Southville, Bristol, Bristol, City Of, BS3 1AT Brand: Total Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A13NW (NW)	357	-	358302 172021
258	Fuel Station Entries Name: King William Self Service Location: 92, North Street, Bedminster, Bristol, Bristol, City Of, BS3 1HF Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A12SE (SW)	684	-	357970 171497
259	Fuel Station Entries Name: St Johns Lane Service Station Location: 295, St Johns Lane, Bedminster, Bristol, Bristol, City Of, BS3 5AS Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Located by supplier to within 100m	A8SE (S)	901	-	358790 170900
260	Fuel Station Entries Name: York Road Service Station Location: York Road, Bedminster, Bristol, Bristol, City Of, BS3 4AB Brand: Shell Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A14NE (E)	997	-	359568 172071
261	Fuel Station Entries Name: Anchor Road Service Station Location: Anchor Road, College Green, Bristol, Bristol, City Of, BS1 5XN Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Approximate location provided by supplier	A17NE (N)	1000	-	358254 172754
262	Points of Interest - Commercial Services Name: Lombard Service Station Location: Brook Road, Southville, Bristol, BS3 1AJ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	0	10	358603 171808
263	Points of Interest - Commercial Services Name: A J Automotive Ltd Location: Unit 1 Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	177	10	358762 171695
263	Points of Interest - Commercial Services Name: Sd Autos Location: Unit 5-6 Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	186	10	358753 171666
263	Points of Interest - Commercial Services Name: Sd Autos Location: Unit 5-6 Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	186	10	358753 171666

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
263	Points of Interest - Commercial Services Name: T D Garage Services Location: Unit 20 Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	187	10	358725 171636
263	Points of Interest - Commercial Services Name: Premier Autogas Location: Unit 17 Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	206	10	358748 171630
263	Points of Interest - Commercial Services Name: Premier Autogas Location: Unit 17 Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	206	10	358748 171630
263	Points of Interest - Commercial Services Name: Bedminster Motors Services Location: Unit 17 Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	206	10	358748 171630
263	Points of Interest - Commercial Services Name: M S M Motors Location: Unit 16 Windmill Farm Business Centre, Bartley Street, Bristol, BS3 4DB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	214	10	358755 171627
264	Points of Interest - Commercial Services Name: Pro-Clean Car Valeting Location: 2-4 Stafford Street, Bedminster, Bristol, Avon, BS3 4DA Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13SE (S)	248	10	358616 171534
264	Points of Interest - Commercial Services Name: Stafford Street Garage Location: 6-16 Stafford Street, Bristol, BS3 4DA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (S)	260	10	358623 171523
264	Points of Interest - Commercial Services Name: Stafford Street Garage Location: 6-16 Stafford Street, Bristol, BS3 4DA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (S)	260	10	358622 171522
265	Points of Interest - Commercial Services Name: Albany Panel Beating Co Location: 6 Albany Buildings, Dean Lane, Bristol, BS3 1BT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (NW)	277	10	358368 171976
266	Points of Interest - Commercial Services Name: S & B Auto Electrical Services Location: Ferodo House, Willway Street, Bristol, BS3 4BG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (E)	295	10	358898 171727
266	Points of Interest - Commercial Services Name: S & B Auto Electrical Services Location: Ferodo House, Willway Street, Bristol, BS3 4BG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (E)	295	10	358898 171727
267	Points of Interest - Commercial Services Name: UK Car Body Ltd Location: 6 Whitehouse Lane, Bristol, BS3 4DW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	323	10	358824 171541

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
267	Points of Interest - Commercial Services Name: UK Carbody Ltd Location: 6 Whitehouse Lane, Bedminster, Bristol, BS3 4DW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	324	10	358824 171541
267	Points of Interest - Commercial Services Name: Cabot Motors Location: Clarke Street, Bristol, BS3 4DX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	326	10	358791 171513
267	Points of Interest - Commercial Services Name: Cabot Motors Ltd Location: Clarke Street, Bristol, BS3 4DX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	326	10	358790 171512
267	Points of Interest - Commercial Services Name: Carcraft Location: 103-109 Whitehouse Lane, Bristol, BS3 4DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	362	10	358818 171487
267	Points of Interest - Commercial Services Name: V M S Location: 111-115 Whitehouse Lane, Bristol, BS3 4DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	373	10	358806 171466
267	Points of Interest - Commercial Services Name: Carcraft Location: 103-109 Whitehouse Lane, Bristol, BS3 4DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	373	10	358807 171466
267	Points of Interest - Commercial Services Name: Ashton MOT Centre Location: 103-109 Whitehouse Lane, Bristol, BS3 4DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	373	10	358807 171466
267	Points of Interest - Commercial Services Name: Carcraft Servicing & Mechanical Repairs Location: 103-109 Whitehouse Lane, Bristol, BS3 4DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	373	10	358806 171466
267	Points of Interest - Commercial Services Name: Mildon S Transport Ltd Location: 79-81 Whitehouse Lane, Bristol, BS3 4DN Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SE (SE)	375	10	358865 171510
267	Points of Interest - Commercial Services Name: F Kelly Location: 131-135 Whitehouse Lane, Bristol, BS3 4DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (SE)	376	10	358768 171442
267	Points of Interest - Commercial Services Name: M J Auto Engineers Location: 83 Whitehouse Lane, Bristol, BS3 4DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	377	10	358860 171502
267	Points of Interest - Commercial Services Name: K G Tyres Location: 119 Whitehouse Lane, Bristol, BS3 4DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (SE)	377	10	358788 171451

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
267	Points of Interest - Commercial Services Name: R J Autos Location: 83 Whitehouse Lane, Bristol, BS3 4DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	377	10	358860 171502
267	Points of Interest - Commercial Services Name: R J Autos Location: 83 Whitehouse Lane, Bristol, BS3 4DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	377	10	358860 171502
267	Points of Interest - Commercial Services Name: Yellow Cabs Garage Location: 119 Whitehouse Lane, Bristol, BS3 4DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NE (SE)	377	10	358788 171451
268	Points of Interest - Commercial Services Name: Reclaimers Reclamation Location: The Mill Building, Cumberland Rd, Bristol, Avon, BS1 6XG Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A13NW (N)	328	10	358523 172134
269	Points of Interest - Commercial Services Name: Avon Exhaust Centre Location: 2 North Street, Bedminster, Bristol, BS3 1HT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (SW)	366	10	358289 171576
269	Points of Interest - Commercial Services Name: Advanced Auto Electrical Location: Booth Road, Bedminster, Bristol, BS3 1BP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (SW)	372	10	358270 171595
270	Points of Interest - Commercial Services Name: Serjeant Commercials Location: 67-77 Whitehouse Lane, Bristol, BS3 4DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	378	10	358879 171518
270	Points of Interest - Commercial Services Name: Serjeant Commercial Vehicle Repairs Ltd Location: 67-77 Whitehouse Lane, Bristol, BS3 4DN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	379	10	358880 171518
270	Points of Interest - Commercial Services Name: Moto-tech Fleet Servicing Location: 43-55 Whitehouse Lane, Bristol, BS3 4DW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	400	10	358940 171559
271	Points of Interest - Commercial Services Name: Whitehouse Bodyworks Location: 33-41 Whitehouse Lane, Bristol, BS3 4DW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	421	10	358976 171579
271	Points of Interest - Commercial Services Name: Whitehouse Bodyworks Location: 27-41 Whitehouse Lane, Bristol, BS3 4DW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	421	10	358976 171579
271	Points of Interest - Commercial Services Name: Vehicle Clinic Location: 27-33 Whitehouse Lane, Bristol, BS3 4DW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (SE)	424	10	358981 171581

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
272	Points of Interest - Commercial Services Name: West House Transport S & G Ltd Location: 20 Whitehouse Street, Bristol, BS3 4AY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14SW (E)	429	10	359025 171678
272	Points of Interest - Commercial Services Name: West House Transport (S&G) Ltd Location: 20 Whitehouse Street, Bristol, BS3 4AY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14SW (E)	429	10	359025 171678
272	Points of Interest - Commercial Services Name: R.Thompson & Son Location: 16 Whitehouse Street, Bedminster, Bristol, BS3 4AY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	441	10	359048 171745
272	Points of Interest - Commercial Services Name: Scrap a Car Bristol Location: 1-9 Whitehouse Lane, Bristol, BS3 4DJ Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A14SW (E)	490	10	359071 171621
273	Points of Interest - Commercial Services Name: Sa Hand Car Wash Location: 4-10 West Street, Bedminster, Bristol, BS3 3LG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NW (SW)	510	10	358296 171367
274	Points of Interest - Commercial Services Name: Mr Clutch Autocentres Location: Unit 6b, Malago Road, Bristol, BS3 4JQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (S)	513	10	358479 171282
274	Points of Interest - Commercial Services Name: Mr Clutch Autocentres Location: Unit 7, Malago Road, Bristol, BS3 4JQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (S)	518	10	358472 171278
274	Points of Interest - Commercial Services Name: Kwik-Fit (GB) Limited Location: Unit 3, Malago Road, Bristol, BS3 4JQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (S)	559	10	358438 171245
274	Points of Interest - Commercial Services Name: Kwik-Fit (GB) Limited Location: Unit 3, Malago Road, Bristol, BS3 4JQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (S)	560	10	358437 171244
275	Points of Interest - Commercial Services Name: IMO - arc Clean Car Centres Location: Sheene Road, Bristol, BS3 4EG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NW (SW)	521	10	358366 171312
275	Points of Interest - Commercial Services Name: IMO - arc Clean Car Centres Location: Sheene Road, Bristol, BS3 4EG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NW (SW)	522	10	358366 171312
275	Points of Interest - Commercial Services Name: Elite Automotive Services Ltd Location: Unit 3, Sheene Road, Bristol, BS3 4EG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (SW)	581	10	358324 171266

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
275	Points of Interest - Commercial Services Name: Anduff Location: Unit 1, Sheene Road, Bristol, BS3 4EG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NW (SW)	581	10	358324 171266
275	Points of Interest - Commercial Services Name: Elite Automotive Services Location: Unit 3, Sheene Road, Bristol, BS3 4EG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (SW)	581	10	358324 171267
275	Points of Interest - Commercial Services Name: Elite Automotive Services Ltd Location: Unit 3, Sheene Road, Bristol, BS3 4EG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (SW)	581	10	358324 171267
275	Points of Interest - Commercial Services Name: Anduff Car Wash Location: Unit 1, Sheene Road, Bristol, BS3 4EG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NW (SW)	600	10	358348 171234
275	Points of Interest - Commercial Services Name: Elite Auto Services Location: Unit 3, Sheene Road, Bedminster, Bristol, BS3 4ED Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (SW)	615	10	358312 171234
275	Points of Interest - Commercial Services Name: GB Motorcross Ltd Location: Unit 3 Sheene Court Industrial Estate, Sheene Road, Bristol, BS3 4EG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (SW)	616	10	358311 171234
276	Points of Interest - Commercial Services Name: Chaplin Fabrications Location: Chaplin Fabrications Iron Masters 12a, Cotswold Road, Bristol, BS3 4NT Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A8NE (S)	568	10	358636 171215
277	Points of Interest - Commercial Services Name: A P Autocare Ltd Location: 14-16 Whitehouse Place, Bristol, BS3 4BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (E)	609	10	359213 171871
277	Points of Interest - Commercial Services Name: W & E Automotive Location: 14-16 Whitehouse Place, Bedminster, Bristol, BS3 4BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (E)	610	10	359214 171871
277	Points of Interest - Commercial Services Name: A P Autocare Ltd Location: 16 Whitehouse Place, Bristol, BS3 4BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (E)	610	10	359214 171871
277	Points of Interest - Commercial Services Name: Y & M Smart Location: 14-16 Whitehouse Place, Bristol, BS3 4BL Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14NW (E)	610	10	359214 171871
278	Points of Interest - Commercial Services Name: Jamieson Location: 39-41 West Street, Bedminster, Bristol, BS3 3NS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	617	10	358233 171280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
278	Points of Interest - Commercial Services Name: Jamieson Auto Engineers Location: 39-41 West Street, Bedminster, Bristol, BS3 3NS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	620	10	358230 171278
278	Points of Interest - Commercial Services Name: 54 West Street Ltd Location: 54 West Street, Bedminster, Bristol, BS3 3LH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	631	10	358187 171298
278	Points of Interest - Commercial Services Name: Marsh Lane Bodyworks Location: 53-55 British Road, Bristol, BS3 3BT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	634	10	358168 171310
278	Points of Interest - Commercial Services Name: Marsh Lane Bodyworks Location: 53-55 British Road, Bristol, BS3 3BT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	634	10	358168 171310
278	Points of Interest - Commercial Services Name: Marsh Lane Bodyworks Location: 53-55 British Road, Bristol, BS3 3BT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (SW)	634	10	358168 171310
279	Points of Interest - Commercial Services Name: Vee W Services Location: Unit 2, Princess Street, Bedminster, Bristol, BS3 4AG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SW (E)	619	10	359226 171746
280	Points of Interest - Commercial Services Name: Hinton Rescue Location: Unit D Malago Vale Trading Estate, St. Johns Lane, Bristol, BS3 5BQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (S)	634	10	358509 171154
280	Points of Interest - Commercial Services Name: Bedminster Motor Services Location: Unit C Malago Vale Trading Estate, St. Johns Lane, Bristol, BS3 5BQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	674	10	358472 171119
281	Points of Interest - Commercial Services Name: K S Bodyworks Location: Camden Road, Bristol, BS3 1QA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (W)	651	10	357980 172036
282	Points of Interest - Commercial Services Name: V E W Services Ltd Spring Street Location: Unit 1 5, Victoria Grove, Bristol, BS3 4AN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	675	10	359280 171864
282	Points of Interest - Commercial Services Name: C T Garages Location: Victoria Grove, Bristol, BS3 4AN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	699	10	359304 171868
282	Points of Interest - Commercial Services Name: C T Garages Location: Victoria Grove, Bristol, BS3 4AN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	712	10	359316 171872

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
282	Points of Interest - Commercial Services Name: V W Services Location: Princess Street, Bedminster, Bristol, Avon, BS3 4AG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	742	10	359341 171911
282	Points of Interest - Commercial Services Name: V W Services Location: Unit 1 Spring House, Spring St, Bedminster, Bristol, Avon, BS3 4PZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	743	10	359342 171913
282	Points of Interest - Commercial Services Name: Templegate Peugeot Location: Spring House, Spring Street, Bedminster, Bristol, BS3 4PZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	745	10	359343 171914
283	Points of Interest - Commercial Services Name: M & M Deliveries Location: 27 Cromwell Street, Bristol, BS3 3NT Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NE (SW)	682	10	358206 171220
284	Points of Interest - Commercial Services Name: Beaulley Motor Services Location: 52a Beaulley Road, Bristol, BS3 1PY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	709	10	357887 171897
284	Points of Interest - Commercial Services Name: Beaulley Motor Services Location: 52a Beaulley Road, Bristol, BS3 1PY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	709	10	357887 171897
284	Points of Interest - Commercial Services Name: Beaulley Motor Services Location: 52a Beaulley Road, Bristol, BS3 1PY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	709	10	357887 171897
285	Points of Interest - Commercial Services Name: Bristol Interior Trim Centre Location: 125g Cotswold Road, Bristol, BS3 4PH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	784	10	358738 171009
286	Points of Interest - Commercial Services Name: Crago Motors Location: Exmoor Street, Bristol, BS3 1HD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (SW)	823	10	357841 171445
286	Points of Interest - Commercial Services Name: Crago Motors Location: Exmoor Street, Bristol, BS3 1HD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (SW)	823	10	357841 171444
287	Points of Interest - Commercial Services Name: Don Williams Location: Unit 1, Cooperage Lane, Bristol, BS3 1PL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	837	10	357778 172008
287	Points of Interest - Commercial Services Name: Beaulley Motor Services Location: Unit 1, Cooperage Lane, Bristol, BS3 1PL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	838	10	357777 172007

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
287	Points of Interest - Commercial Services Name: Beaulley Motor Services Location: Unit 1, Cooperage Lane, Bristol, BS3 1PL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	839	10	357777 172015
288	Points of Interest - Commercial Services Name: Cycle Therapist Location: Broad Quay House, Broad Quay, Bristol, BS1 4DJ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A18NE (N)	884	10	358622 172697
288	Points of Interest - Commercial Services Name: Pest Solutions Ltd Location: Broad Quay House, Broad Quay, Bristol, BS1 4DJ Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A18NE (N)	884	10	358622 172697
289	Points of Interest - Commercial Services Name: B V S Location: 122 West Street, Bedminster, Bristol, BS3 3LT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7SE (SW)	897	10	358048 171069
289	Points of Interest - Commercial Services Name: B V S Southwest Ltd Location: 122 West Street, Bedminster, Bristol, BS3 3LT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7SE (SW)	897	10	358048 171069
290	Points of Interest - Commercial Services Name: Mailboxes E T C Location: 71 St. Thomas Street, Bristol, BS1 6JZ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A19SW (NE)	912	10	359244 172462
290	Points of Interest - Commercial Services Name: Forward Bird Control - National Location: 63 St. Thomas Street, Bristol, BS1 6JZ Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A19NW (NE)	947	10	359232 172520
291	Points of Interest - Commercial Services Name: Kwik-Fit (GB) Limited Location: 46 Redcliff Street, Bristol, BS1 6LL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19NW (NE)	932	10	359113 172591
292	Points of Interest - Commercial Services Name: Car Wash Location: York Road Service Station, York Road, Bedminster, Bristol, BS3 4AB Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14NE (E)	997	10	359568 172071
292	Points of Interest - Commercial Services Name: York Road Service Station Location: York Road Service Station, York Road, Bedminster, Bristol, BS3 4AB Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14NE (E)	997	10	359568 172071
293	Points of Interest - Education and Health Name: 48 Coronation Road Location: 48 Coronation Road, Southville, Bristol, BS3 1AR Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NE (N)	164	10	358633 171972
294	Points of Interest - Education and Health Name: The Southville Surgery Location: 67 Coronation Road, Southville, Bristol, BS3 1AS Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NW (NW)	252	10	358415 171992

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
295	Points of Interest - Education and Health Name: Susan Britton Wills Day Centre Location: Bristol General Hospital, Guinea Street, Bristol, BS1 6SY Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NE (NE)	384	10	358845 172110
295	Points of Interest - Education and Health Name: Bristol General Hospital Location: Bristol General Hospital, Guinea Street, Bristol, BS1 6SY Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NE (NE)	384	10	358845 172110
295	Points of Interest - Education and Health Name: Bristol General Hospital Location: Bristol General Hospital, Guinea Street, Bristol, BS1 6SY Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NE (NE)	384	10	358845 172110
296	Points of Interest - Education and Health Name: The Malago Surgery Location: 40 St. Johns Road, Bedminster, Bristol, BS3 4JE Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A8NW (SW)	452	10	358403 171371
297	Points of Interest - Education and Health Name: United Bristol Healthcare NHS Trust Location: Martin St, Bristol, Avon, BS3 3EE Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A7NW (SW)	989	10	357717 171320
298	Points of Interest - Manufacturing and Production Name: Business Centre Location: BS3 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	202	10	358759 171648
299	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	238	10	358477 171573
300	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	269	10	358877 171796
300	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	269	10	358877 171797
300	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (E)	288	10	358895 171817
300	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (E)	305	10	358910 171843
300	Points of Interest - Manufacturing and Production Name: Tank Location: BS3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A14SW (E)	331	10	358937 171748

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
301	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	271	10	358583 171512
301	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	304	10	358591 171478
302	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	295	10	358384 171573
302	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	296	10	358381 171574
303	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	309	10	358907 171704
303	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	309	10	358907 171704
304	Points of Interest - Manufacturing and Production Name: Old Jail Workshops Location: BS1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	321	10	358437 172094
305	Points of Interest - Manufacturing and Production Name: St Catherine's Industrial Estate Location: BS3 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	328	10	358751 171487
306	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	338	10	358253 171772
306	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	338	10	358253 171771
307	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	369	10	358272 171597
307	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	370	10	358272 171596

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
308	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	375	10	358220 171728
308	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	399	10	358206 171678
309	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	400	10	358399 171432
310	Points of Interest - Manufacturing and Production Name: Industrial Estate Location: BS3 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	403	10	358929 171538
311	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	415	10	359016 171709
311	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A14SW (E)	418	10	359020 171711
311	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	430	10	359024 171673
311	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	430	10	359024 171674
311	Points of Interest - Manufacturing and Production Name: Tank Location: BS3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A14SW (E)	443	10	359041 171688
311	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	453	10	359054 171702
311	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	453	10	359054 171702
312	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	459	10	358590 171323

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
312	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	459	10	358590 171323
313	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	464	10	359071 171762
314	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	465	10	359072 171762
314	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	541	10	359149 171803
315	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	529	10	358895 172252
316	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	635	10	358163 171313
316	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	635	10	358163 171313
317	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	678	10	357967 171518
317	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	680	10	357975 171495
318	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	734	10	359342 171798
318	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	734	10	359342 171798
319	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	766	10	357928 172195

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
319	Points of Interest - Manufacturing and Production Name: Works Location: BS1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	766	10	357928 172195
320	Points of Interest - Manufacturing and Production Name: Windsor House Associates Location: Greville Road, Bristol, BS3 1LE Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A12SW (W)	794	10	357834 171544
320	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	811	10	357813 171556
320	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	811	10	357813 171556
321	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	797	10	358192 171092
321	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	838	10	358235 171024
321	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	838	10	358235 171024
322	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	805	10	358805 171002
322	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	817	10	358852 171002
322	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	817	10	358852 171002
323	Points of Interest - Manufacturing and Production Name: Progressive Milk Producers Ltd Location: Narrow Quay House, Narrow Quay, Bristol, BS1 4AH Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A18NE (N)	832	10	358625 172644
323	Points of Interest - Manufacturing and Production Name: Regus (UK) Ltd Location: Broad Quay House, Broad Quay, Bristol, BS1 4DJ Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A18NE (N)	884	10	358622 172697

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
323	Points of Interest - Manufacturing and Production Name: Regus Location: Broad Quay House, Broad Quay, Bristol, BS1 4DJ Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A18NE (N)	884	10	358622 172697
323	Points of Interest - Manufacturing and Production Name: Start Anywhere Location: Venturers House, Prince Street, Bristol, BS1 4PB Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A18NE (N)	908	10	358682 172717
323	Points of Interest - Manufacturing and Production Name: Start International Location: Venturers House, Prince Street Roundabout, Bristol, BS1 4PB Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A18NE (N)	912	10	358687 172720
323	Points of Interest - Manufacturing and Production Name: Roger Perrins Location: Venturers House, King Street, Bristol, BS1 4PB Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A18NE (N)	912	10	358687 172720
324	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	839	10	357777 172013
324	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	839	10	357777 172013
324	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	864	10	357751 172010
324	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	864	10	357751 172010
325	Points of Interest - Manufacturing and Production Name: Phidias Neo (Classical) Ltd Location: 123 Cumberland Road, Bristol, BS1 6UG Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A17SW (NW)	849	10	357834 172196
325	Points of Interest - Manufacturing and Production Name: Phidias Neo Classical Ltd Location: 123 Cumberland Road, Bristol, BS1 6UG Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A17SW (NW)	849	10	357834 172196
326	Points of Interest - Manufacturing and Production Name: MIs Business Centres Ltd Location: 66 Queen Square, Bristol, BS1 4JP Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A18NE (N)	863	10	358712 172668
326	Points of Interest - Manufacturing and Production Name: MIs Business Centres South West Location: 66 Queen Square, Bristol, BS1 4JP Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A18NE (N)	864	10	358712 172668

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
327	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	905	10	359492 171994
327	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	907	10	359492 172003
327	Points of Interest - Manufacturing and Production Name: Wks Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A14NE (E)	913	10	359500 171995
328	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	946	10	357800 172330
328	Points of Interest - Manufacturing and Production Name: Works Location: BS1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	946	10	357800 172330
328	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	965	10	357751 172287
328	Points of Interest - Manufacturing and Production Name: Works Location: BS1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	965	10	357751 172287
328	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	970	10	357780 172344
328	Points of Interest - Manufacturing and Production Name: Works Location: BS1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	970	10	357780 172344
328	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	986	10	357738 172306
328	Points of Interest - Manufacturing and Production Name: Works Location: BS1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	986	10	357738 172306
328	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	996	10	357733 172317

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
328	Points of Interest - Manufacturing and Production Name: Works Location: BS1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	996	10	357733 172317
329	Points of Interest - Manufacturing and Production Name: Tank Location: BS3 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7SE (S)	966	10	358242 170882
330	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	989	10	359591 171903
330	Points of Interest - Manufacturing and Production Name: Works Location: BS3 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	989	10	359591 171902
331	Points of Interest - Public Infrastructure Name: Sluice Location: BS1 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NE (N)	214	10	358653 172018
331	Points of Interest - Public Infrastructure Name: Dam Location: BS1 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13NE (N)	291	10	358652 172098
332	Points of Interest - Public Infrastructure Name: Sluice Location: BS3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	248	10	358791 171615
333	Points of Interest - Public Infrastructure Name: Asda Petrol Location: East Street, Bedminster, Bristol, BS3 4JY Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (NE)	269	10	358805 171990
333	Points of Interest - Public Infrastructure Name: Asda Bristol Bedminster Automat Location: Coronation Road, Bedminster, Bristol, BS3 4JY Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (NE)	275	10	358808 171996
334	Points of Interest - Public Infrastructure Name: Bedminster Rail Station Location: Fraser Street, BS3 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A8NE (SE)	405	10	358784 171417
334	Points of Interest - Public Infrastructure Name: Bedminster Station Location: Fraser Street, BS3 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A8NE (SE)	405	10	358784 171417
335	Points of Interest - Public Infrastructure Name: Burial Ground Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	497	10	358217 171456

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
335	Points of Interest - Public Infrastructure Name: Burial Ground Location: BS3 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	497	10	358217 171456
336	Points of Interest - Public Infrastructure Name: Outfalls Location: BS1 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	597	10	358077 172115
337	Points of Interest - Public Infrastructure Name: Burial Ground Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	612	10	358112 171402
337	Points of Interest - Public Infrastructure Name: Burial Ground Location: BS3 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	621	10	358101 171401
338	Points of Interest - Public Infrastructure Name: Alex's Rubbish Clearance Location: Flat 8 Norton House, Ship Lane, Bristol, BS1 6RW Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A14NW (NE)	625	10	359159 172102
339	Points of Interest - Public Infrastructure Name: Community Recycling Network Location: 57 Prince Street, Bristol, BS1 4QH Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A18SE (N)	653	10	358648 172463
340	Points of Interest - Public Infrastructure Name: Sluices Location: BS3 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	734	10	358476 171058
340	Points of Interest - Public Infrastructure Name: St John's Burial Ground Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	740	10	358519 171046
340	Points of Interest - Public Infrastructure Name: St John's Burial Ground Location: BS3 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	745	10	358506 171042
340	Points of Interest - Public Infrastructure Name: St Johns Burial Ground Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	790	10	358510 170997
341	Points of Interest - Public Infrastructure Name: The Caring Cartridge Location: 7-9 Spring Street Place, Bristol, BS3 4AF Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A14NE (E)	786	10	359387 171901
341	Points of Interest - Public Infrastructure Name: Replicate Office Services Ltd Location: 7-9 Spring Street Place, Bristol, BS3 4AF Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A14NE (E)	786	10	359387 171901

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
341	Points of Interest - Public Infrastructure Name: Caring Cartridge Location: 7-9 Spring Street Place, Bristol, BS3 4AF Category: Infrastructure and Facilities Class Code: Recycling Centres Positional Accuracy: Positioned to address or location	A14NE (E)	786	10	359387 171901
342	Points of Interest - Public Infrastructure Name: Alpha Clearance Location: Flat 1 St. Johns Court 300, St. Johns Lane, Bristol, BS3 5BB Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A8SE (S)	851	10	358766 170946
343	Points of Interest - Public Infrastructure Name: Westway Municipal Vehicle Hire Location: Flat 1 The Atrium 60, Redcliff Street, Bristol, BS1 6LS Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A19NW (NE)	872	10	359123 172512
344	Points of Interest - Public Infrastructure Name: Symonds Forecourts Ltd Location: York Road Service Station, York Road, Bedminster, Bristol, BS3 4AB Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NE (E)	996	10	359568 172068
344	Points of Interest - Public Infrastructure Name: York Road Service Station Location: York Road, Bedminster, Bristol, Avon, BS3 4AB Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NE (E)	996	10	359568 172068
344	Points of Interest - Public Infrastructure Name: Shell Service Station Location: York Road Service Station, York Road, Bedminster, Bristol, BS3 4AB Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NE (E)	997	10	359569 172068
344	Points of Interest - Public Infrastructure Name: York Road Service Station Location: York Road Service Station, York Road, Bedminster, Bristol, BS3 4AB Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NE (E)	997	10	359568 172071
345	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	259	10	358852 171694
345	Points of Interest - Recreational and Environmental Name: Playground Location: Philip Street, BS3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SE (E)	259	10	358853 171698
345	Points of Interest - Recreational and Environmental Name: Play Area Location: Philip Street, BS3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	306	10	358874 171631
345	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	310	10	358880 171634
346	Points of Interest - Recreational and Environmental Name: Playground Location: Whitehouse Lane, BS3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	449	10	358965 171509

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
346	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	450	10	358943 171482
346	Points of Interest - Recreational and Environmental Name: Play Area Location: Fraser Street, BS3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A14SW (SE)	456	10	358963 171496
346	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	459	10	358966 171495
346	Points of Interest - Recreational and Environmental Name: Playground Location: Whitehouse Lane, BS3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	459	10	358966 171495
347	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	449	10	358719 171347
348	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	454	10	358930 172128
348	Points of Interest - Recreational and Environmental Name: Play Area Location: Nr Commercial Road, BS1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NE (NE)	456	10	358931 172129
349	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	714	10	358061 171304
349	Points of Interest - Recreational and Environmental Name: Playground Location: Palmerston Street, BS3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	714	10	358061 171304
350	Points of Interest - Recreational and Environmental Name: Queen Square Location: Old City, Bristol, City of Bristol, BS1 4LH Category: Recreational Class Code: Municipal Parks And Gardens Positional Accuracy: Positioned to address or location	A18NE (N)	768	10	358771 172560
350	Points of Interest - Recreational and Environmental Name: Queen Square Location: Old City, Bristol, City of Bristol, BS1 4LH Category: Recreational Class Code: Municipal Parks And Gardens Positional Accuracy: Positioned to address or location	A18NE (N)	770	10	358779 172560
351	Points of Interest - Recreational and Environmental Name: Playground Location: Prewett Street, BS1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A19SE (NE)	774	10	359275 172198

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
351	<p>Points of Interest - Recreational and Environmental</p> <p>Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location</p>	A19SE (NE)	788	10	359303 172176
351	<p>Points of Interest - Recreational and Environmental</p> <p>Name: Playground Location: Somerset Square, BS1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location</p>	A19SE (NE)	788	10	359303 172178
352	<p>Points of Interest - Recreational and Environmental</p> <p>Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location</p>	A14SE (E)	816	10	359422 171728
352	<p>Points of Interest - Recreational and Environmental</p> <p>Name: Playground Location: St Luke'S Road, BS3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location</p>	A14SE (E)	816	10	359422 171728
353	<p>Points of Interest - Recreational and Environmental</p> <p>Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location</p>	A9NE (SE)	871	10	359363 171348
353	<p>Points of Interest - Recreational and Environmental</p> <p>Name: Playground Location: Hill Avenue, BS3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location</p>	A9NE (SE)	876	10	359370 171349

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices South Gloucestershire Council - Environmental Services Department Bristol City Council - Environmental Health Department Bath and North East Somerset Council - Environmental Health Department North Somerset Council - Environmental Health Department	January 2015 March 2014 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - South West Region	July 2018	Quarterly
Enforcement and Prohibition Notices Environment Agency - South West Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - South West Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - South West Region	July 2018	Quarterly
Local Authority Integrated Pollution Prevention And Control Bath and North East Somerset Council - Environmental Health Department Bristol City Council - Environmental Health Department South Gloucestershire Council - Environmental Services Department North Somerset Council - Environmental Health Department	February 2015 February 2015 January 2015 September 2013	Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Bath and North East Somerset Council - Environmental Health Department Bristol City Council - Environmental Health Department South Gloucestershire Council - Environmental Services Department North Somerset Council - Environmental Health Department	February 2015 February 2015 January 2015 March 2015	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Bath and North East Somerset Council - Environmental Health Department Bristol City Council - Environmental Health Department South Gloucestershire Council - Environmental Services Department North Somerset Council - Environmental Health Department	February 2015 February 2015 January 2015 September 2013	Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	September 2017	
Pollution Incidents to Controlled Waters Environment Agency - South West Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - South West Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - South West Region	March 2013	As notified
Registered Radioactive Substances Environment Agency - South West Region	January 2015	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - South West Region - North Wessex Area Environment Agency - South West Region - Wessex Area	July 2018 July 2018	Quarterly Quarterly
Water Abstractions Environment Agency - South West Region	July 2018	Quarterly
Water Industry Act Referrals Environment Agency - South West Region	October 2017	Quarterly

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	January 2018	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2018	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2018	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	May 2018	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	May 2018	Quarterly
Flood Defences Environment Agency - Head Office	May 2018	Quarterly
OS Water Network Lines Ordnance Survey	May 2018	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	July 2018	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - South West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South West Region - North Wessex Area Environment Agency - South West Region - Wessex Area	July 2018 July 2018	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South West Region - North Wessex Area Environment Agency - South West Region - Wessex Area	July 2018 July 2018	Quarterly Quarterly
Local Authority Landfill Coverage Bath and North East Somerset Council - Planning Services Department Bristol City Council North Somerset Council South Gloucestershire Council - Environmental Services Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Bath and North East Somerset Council - Planning Services Department Bristol City Council North Somerset Council South Gloucestershire Council - Environmental Services Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - South West Region - North Wessex Area Environment Agency - South West Region - Wessex Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - South West Region - North Wessex Area Environment Agency - South West Region - Wessex Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - South West Region - North Wessex Area Environment Agency - South West Region - Wessex Area	March 2003 March 2003	Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Variable
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Bristol City Council - Planning Department Bath and North East Somerset Council - Economic and Environmental Development North Somerset Council South Gloucestershire Council - Development Control: Planning	April 2015 February 2016 February 2016 May 2016	Variable Variable Variable Variable
Planning Hazardous Substance Consents Bristol City Council - Planning Department Bath and North East Somerset Council - Economic and Environmental Development North Somerset Council South Gloucestershire Council - Development Control: Planning	April 2015 February 2016 February 2016 May 2016	Variable Variable Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2018	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	May 2018	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2018	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	September 2018	Quarterly
Points of Interest - Education and Health PointX	September 2018	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2018	Quarterly
Points of Interest - Public Infrastructure PointX	September 2018	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2018	Quarterly
Underground Electrical Cables National Grid	December 2015	

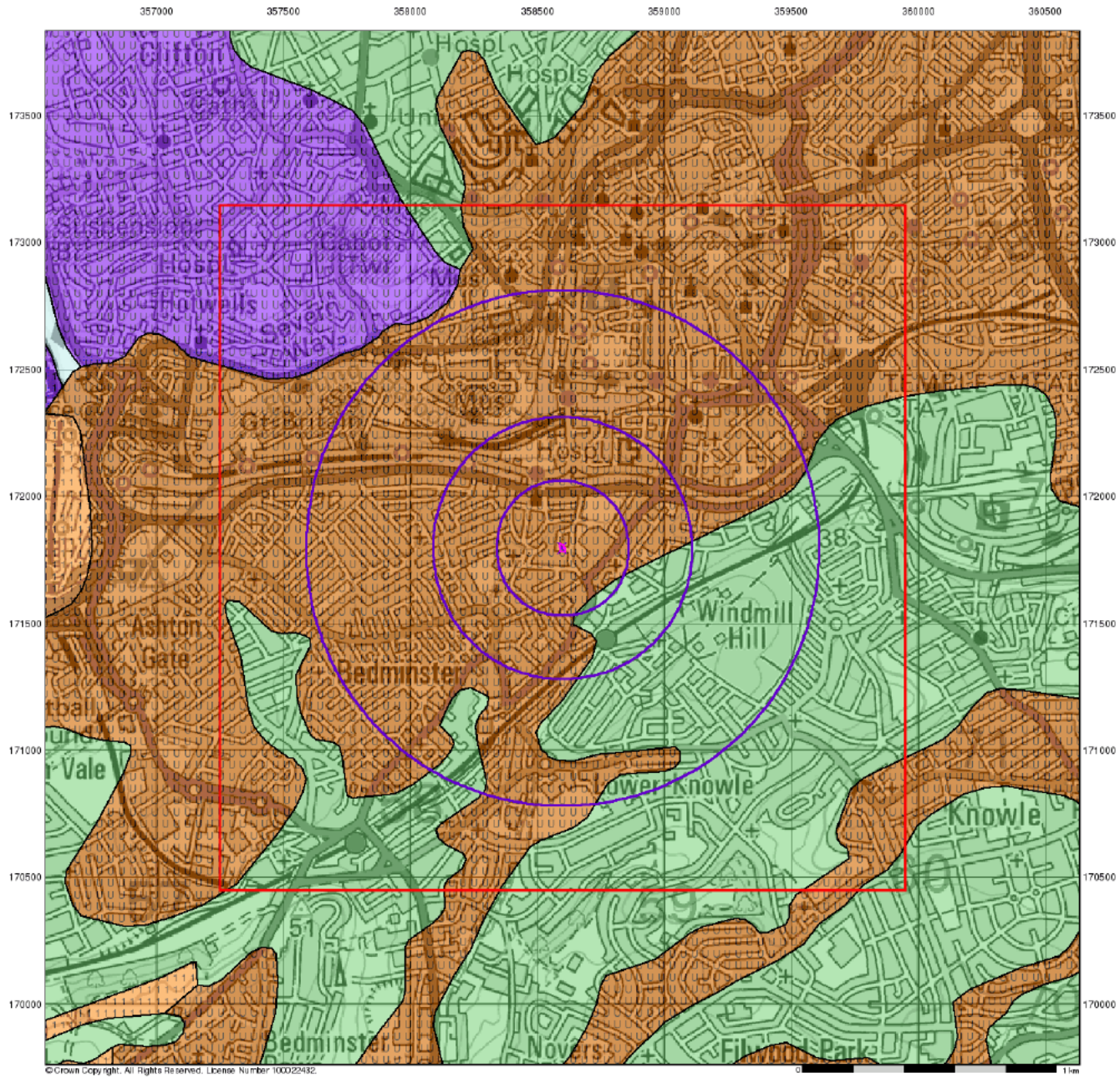
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt Bath and North East Somerset Council Bristol City Council North Somerset Council South Gloucestershire Council	August 2018 August 2018 August 2018 August 2018	As notified As notified As notified As notified
Areas of Unadopted Green Belt Bath and North East Somerset Council Bristol City Council North Somerset Council South Gloucestershire Council	August 2018 August 2018 August 2018 August 2018	As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	August 2018	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	August 2018	Bi-Annually
Marine Nature Reserves Natural England	January 2018	Bi-Annually
National Nature Reserves Natural England	August 2018	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	
Ramsar Sites Natural England	August 2018	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2018	Bi-Annually
Special Areas of Conservation Natural England	August 2018	Bi-Annually
Special Protection Areas Natural England	August 2018	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	 Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	 SCOTTISH NATURAL HERITAGE
Natural England	 NATURAL ENGLAND
Public Health England	 Public Health England
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Bristol City Council - Environmental Health Department Brunel House, St Georges Road, Bristol, Avon, BS1 5UY	Telephone: 0117 922 2500
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	Bristol City Council The Council House, College Green, Bristol, Avon, BS1 5TR	Telephone: 0117 922 2000 Fax: 0117 922 3886 Website: www.bristol-city.gov.uk
6	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
7	Bristol City Council - Planning Department Brunel House, St Georges Road, Bristol, Avon, BS1 5UY	Telephone: 0117 922 2000 Fax: 0117 922 3861
8	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
9	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
10	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
11	North Somerset Council PO Box 140, Town Hall, Weston-super-Mare, Avon, BS23 1UJ	Telephone: 01934 888888 Fax: 01934 888822 Website: www.n-somerset.gov.uk
12	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
13	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



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A Member of the **ISX** Group plc

Groundwater Vulnerability

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

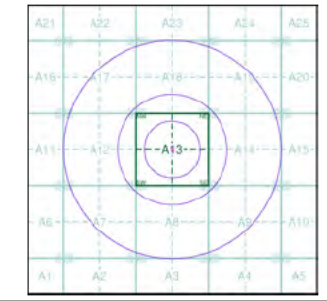
Agency and Hydrological

Geological Classes

- Major Aquifer (Highly Permeable)**
 - High (H) 1, 2, 3, U
 - Intermediate (I) 1, 2
 - Low
- Minor Aquifer (Variably Permeable)**
 - High (H) 1, 2, 3, U
 - Intermediate (I) 1, 2
 - Low
- Non Aquifer (Negligibly Permeable)**
- Water or Sea**
- Drift Deposit**

Soil Classes

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 180883921_1_1
 Customer Ref: 733272/AW
 National Grid Reference: 358600, 171800
 Slice: A
 Site Area (Ha): 0.05
 Search Buffer (m): 1000

Site Details

Lombard Service Station, Brook Road, Southville, BRISTOL, BS3 1AJ



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 Web www.envirocheck.co.uk