



5b. Hydrogeology - Aquifer Within Bedrock Geology and Abstraction Licenses

NW NE Somers Town Pancras **Euston Station** SW SE © Crown copyright and database rights 2013. Ordnance Survey Aguifer Within Bedrock Geology Legend license 100035207. Secondary Aquifer - Undifferentiated Layers Principal Aquifer Site Outline Unproductive Secondary (A) Aquifer - Permeable Layers Unknown (lakes and landslip) Secondary (B) Aquifer - Lower Permeability Layers Search Buffers (m)

Groundwater Abstraction Licence

Report Reference: EMS-203746_296431

Surface Water Abstraction Licence





5c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses

NW NE Pancras **Euston Station** SW SE © Crown copyright and database rights 2013. Ordnance Survey SPZ and Potable Water Abstraction Licenses Legend license 100035207. Source Protection Zone 1 - Inner Catchment Site Outline Source Protection Zone 2 - Outer Catchment Potable Water Abstraction Licence Search Buffers (m) Source Protection Zone 3 - Total Catchment

Source Protection Zone 4 - Zone of Special Interest





5d. Hydrology – Detailed River Network and River Quality

NW ΝF King's Cross St Pancras **Euston Station** SW SE © Crown copyright and database rights 2013. Ordnance Survey license 100035207. Hydrology Legend Ordnance Survey® Primary River Canal Canal Tunnel Secondary River Site Outline Extended Culvert (greater than 50m) Tertiary River Lake/Reservoir D/S of High Water Mark Search Buffers (m) D/S seaward extension Underground River (inferred)

General Quality Assessment: Chemistry

Report Reference: EMS-203746_296431

General Quality Assessment: Biology





5. Hydrogeology and Hydrology

5.1 Aguifer within Superficial Deposits

Are there records of productive strata within the superficial geology at or in proximity to the property?

Ýes

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

The following aguifer records are shown on the Aguifer within Superficial Geology Map (5a):

ID	Distance [m]	Direction	Designation	Description Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
1	442.0	S	Secondary A	
2	469.0	SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

5.2 Aquifer within Bedrock Deposits

Are there records of productive strata within the bedrock geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (5b):

ID 1	Distance [m] 0.0	Direction On Site	Designation Unproductive	Description These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	95.0	Е	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

5.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site?

Yes

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (5b):

ID	Distance	Direction	NGR	De	tails
3A	434.0	SE	530052,	Licence No: TH/039/0039/001	Annual Volume (m³): 327600
			182718	Details: Heat Pump	Max Daily Volume (m³): 1260
				Direct Source: Thames Groundwater	Original Application No: NPSWR000003
				Point: Bidborough House 20 Mabledon	Original Start Date: 9/4/2009
				Place London	Expiry Date: 31/3/2013
				Data Type: Point	Issue No: 1
					Version Start Date: 9/4/2009
					Version End Date:





4A	434.0	SE	530052, 182718	Licence No: TH/039/0039/001 Details: Heat Pump Direct Source: Thames Groundwater	Annual Volume (m³): 327600 Max Daily Volume (m³): 1260 Original Application No: NPSWR000003
				Point: Borehole At Bidborough House 20 Mabledon Place London Data Type: Point	Original Start Date: 9/4/2009 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 9/4/2009
					Version End Date:
Not shown	799.0	N	529920, 184040	Licence No: 28/39/39/0222 Details: General Use Relating To Secondary Category (High Loss) Direct Source: Thames Groundwater Point: Kings Cross Concrete Plant- borehole Data Type: Point	Annual Volume (m³): 55200 Max Daily Volume (m³): 200 Original Application No: GEN/39/ Original Start Date: 31/8/2006 Expiry Date: 31/3/2010 Issue No: 1 Version Start Date: 31/8/2006
Not	799.0	N	529920,	Licence No: TH/039/0039/027	Version End Date: Annual Volume (m³): 33400
shown	799.0	14	184040	Details: General Use Relating To Secondary Category (High Loss) Direct Source: Thames Groundwater Point: Kings Cross Concrete Plant- borehole Data Type: Point	Max Daily Volume (m³): 200 Original Application No: NPS/WR/01160 Original Start Date: 21/4/2010 Expiry Date: 31/3/2019 Issue No: 2 Version Start Date: 13/8/2012 Version End Date:
Not shown	1236.0	S		Licence No: TH/039/0039/031 Details: Heat Pump	Annual Volume (m³): 203407 Max Daily Volume (m³): 558
SHOWH				Direct Source: Thames Groundwater Point: Borehole 2, Keppel Street Data Type: Point	Original Application No: NPS/WR/00442 Original Start Date: 8/11/2010 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 8/11/2010
	1226.0			N. T. VODO (0000 (001	Version End Date:
Not shown	1236.0	S		Licence No: TH/039/0039/031 Details: Heat Pump	Annual Volume (m³): 203407 Max Daily Volume (m³): 558
				Direct Source: Thames Groundwater Point: Keppel Street, Bloomsbury, London - Borehole 2 Data Type: Point	Original Application No: NPS/WR/00442 Original Start Date: 8/11/2010 Expiry Date: 31/3/2019 Issue No: 1
					Version Start Date: 8/11/2010 Version End Date:
Not shown	1238.0	S		Licence No: TH/039/0039/031 Details: Heat Pump Direct Source: Thames Groundwater Point: Keppel Street, Bloomsbury, London - Borehole 1 Data Type: Point	Annual Volume (m³): 203407 Max Daily Volume (m³): 558 Original Application No: NPS/WR/00442 Original Start Date: 8/11/2010 Expiry Date: 31/3/2019 Issue No: 1
					Version Start Date: 8/11/2010 Version End Date:
Not shown	1238.0	S		Licence No: TH/039/0039/031 Details: Heat Pump Direct Source: Thames Groundwater Point: Borehole 1, Keppel Street	Annual Volume (m³): 203407 Max Daily Volume (m³): 558 Original Application No: NPS/WR/00442 Original Start Date: 8/11/2010
				Data Type: Point	Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 8/11/2010
Not	1244.0	NE		Licence No: 28/39/39/0207	Version End Date: Annual Volume (m³): 914544
shown	1244.0	INC		Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Barnard Park, Islington - Borehole Data Type: Point	Max Daily Volume (m³): 3024 Original Application No: - Original Start Date: 2/5/2003 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 8/1/2004
Not	1426.0	E		Licence No: 28/39/39/0201	Version End Date: Annual Volume (m³): 1261440
shown	1 120.0	Ľ		Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: New River Head, Finsbury - Borehole Data Type: Point	Max Daily Volume (m³): 3456 Original Application No: WRA/R/2/2 Original Start Date: 8/1/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 8/1/2004 Version End Date:
Not shown	1446.0	SW		Licence No: TH/039/0039/010 Details: Heat Pump Direct Source: Thames Groundwater Point: 10 Weymouth Street, Ridgeford Properties Data Type: Point	Annual Volume (m³): 50000 Max Daily Volume (m³): 400 Original Application No: NPSWR001161 Original Start Date: 13/8/2009 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 13/8/2009 Version End Date:





Not shown	1514.0	SW	Licence No: TH/039/0039/022 Details: Heat Pump Direct Source: Thames Groundwater Point: Confined Chalk, Doric Villa, York Terrace East, London Data Type: Point	Annual Volume (m³): 118260 Max Daily Volume (m³): 324 Original Application No: NPS/WR/002585 Original Start Date: 26/2/2010 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 26/2/2010
Not shown	1514.0	SW	Licence No: TH/039/0039/022 Details: Heat Pump Direct Source: Thames Groundwater Point: Doric Villa, York Terrace East, London Data Type: Point	Version End Date: Annual Volume (m³): 118260 Max Daily Volume (m³): 324 Original Application No: NPS/WR/002585 Original Start Date: 26/2/2010 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 26/2/2010
Not shown	1563.0	Е	Licence No: 28/39/39/0188 Details: Water Bottling Direct Source: Thames Groundwater Point: Borehole At Sadlers Wells Theatre, London Data Type: Point	Version End Date: Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: A/N/6488 Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 29/9/1998
Not shown	1563.0	Е	Licence No: 28/39/39/0188 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: Borehole At Sadlers Wells Theatre, London Data Type: Point	Version End Date: Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: A/N/6488 Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 29/9/1998
Not shown	1563.0	Е	Licence No: 28/39/39/0188 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London	Version End Date: Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 29/9/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 18/9/2001
Not shown	1563.0	Е	Data Type: Point Licence No: 28/39/39/0188 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At Sadlers Wells Theatre, London	Version End Date: Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: A/N/6488 Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 29/9/1998
Not shown	1563.0	Е	Data Type: Point Licence No: 28/39/39/0208 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London Data Type: Point	Version End Date: Annual Volume (m³): 473040 Max Daily Volume (m³): 1296 Original Application No: WRA/R/1010 Original Start Date: 13/12/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 13/12/2004 Version End Date:
Not shown	1563.0	Е	Licence No: 28/39/39/0188 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 29/9/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 18/9/2001 Version End Date:
Not shown	1563.0	Е	Licence No: 28/39/39/0208 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Sadler's Wells Theatre, London Data Type: Point	Annual Volume (m³): 473040 Max Daily Volume (m³): 1296 Original Application No: WRA/R/1010 Original Start Date: 13/12/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 13/12/2004 Version End Date:
Not shown	1563.0	Е	Licence No: 28/39/39/0188 Details: Water Bottling Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 29/9/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 18/9/2001 Version End Date:





Not shown	1629.0	W	Licence No: 28/39/39/0035 Details: Animal Watering & General Use in non Farming situations Direct Source: Thames Groundwater Point: Borehole At Regent's Park, London Nw1	Annual Volume (m³): 681.9 Max Daily Volume (m³): 59 Original Application No: - Original Start Date: 4/4/1966 Expiry Date: - Issue No: 100
			Data Type: Point	Version Start Date: 4/4/1966
Not shown	1648.0	SW	Licence No: 28/39/39/0215 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: 3-5 Devonshire Place-borehole A Data Type: Point	Version End Date: Annual Volume (m³): 122400 Max Daily Volume (m³): 511 Original Application No: WRA/N/1383 Original Start Date: 24/2/2005 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 24/2/2005
				Version End Date:
Not shown	1655.0	SW	Licence No: 28/39/39/0215 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: 20 Devonshire Place, London- borehole A Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WRA/N/1383 Original Start Date: 24/2/2005 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 24/2/2005 Version End Date:
Not shown	1662.0	SW	Licence No: 28/39/39/0215 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: 3-5 Devonshire Place-borehole B Data Type: Point	Annual Volume (m³): 122400 Max Daily Volume (m³): 511 Original Application No: WRA/N/1383 Original Start Date: 24/2/2005 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 24/2/2005
Not shown	1669.0	SW	Licence No: 28/39/39/0215 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: 20 Devonshire Place, London- borehole B Data Type: Point	Version End Date: Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WRA/N/1383 Original Start Date: 24/2/2005 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 24/2/2005
Not shown	1721.0	NW	Licence No: 28/39/39/0091 Details: Laundry Use Direct Source: Thames Groundwater Point: Two Bores At Kentish Town Sports Centre, Prince Of Wales St Data Type: Point	Version End Date: Annual Volume (m³): 94506 Max Daily Volume (m³): 1813.8 Original Application No: NPS/WR/01056! Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: 5/4/2012 Version End Date:
Not shown	1721.0	NW	Licence No: 28/39/39/0091 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Kentish Town Sports Centre, Prince Of Wales St Data Type: Point	Annual Volume (m³): 17997 Max Daily Volume (m³): 604.6 Original Application No: NPS/WR/01056! Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/5/2012 Version End Date:
Not shown	1721.0	NW	Licence No: 28/39/39/0091 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Two Bores At Kentish Town Sports Centre, Prince Of Wales St Data Type: Point	Annual Volume (m³): 94506 Max Daily Volume (m³): 1813.8 Original Application No: NPS/WR/01056! Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: 5/4/2012 Version End Date:
Not shown	1721.0	NW	Licence No: 28/39/39/0091 Details: Process Water Direct Source: Thames Groundwater Point: Two Bores At Kentish Town Sports Centre, Prince Of Wales St Data Type: Point	Annual Volume (m³): 94506 Max Daily Volume (m³): 1813.8 Original Application No: NPS/WR/01056! Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: 5/4/2012 Version End Date:
Not shown	1721.0	NW	Licence No: 28/39/39/0091 Details: Process Water Direct Source: Thames Groundwater Point: Kentish Town Sports Centre, Prince Of Wales St Data Type: Point	Annual Volume (m³): 17997 Max Daily Volume (m³): 604.6 Original Application No: NPS/WR/01056! Original Start Date: 13/6/1966 Expiry Date: Issue No: 101 Version Start Date: 25/5/2012 Version End Date:





Not shown	1780.0	S	Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary,	Annual Volume (m³): 9126 Max Daily Volume (m³): 25
SHOWII			Washing, (Small Garden) -	Original Application No: -
			Commercial/Industrial/Public Services	Original Start Date: 11/10/1971
			Direct Source: Thames Groundwater	Expiry Date: -
			Point: Borehole 'b' At Walmer House, 296	Issue No: 100
			Regent Street, London W1	Version Start Date: 26/11/1979
Not	1700.0	S	Data Type: Point Licence No: 28/39/39/0138	Version End Date:
Not shown	1780.0	5		Annual Volume (m³): 9126 Max Daily Volume (m³): 25
SHOWH			Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) -	Original Application No: -
			Commercial/Industrial/Public Services	Original Start Date: 11/10/1971
			Direct Source: Thames Groundwater	Expiry Date: -
			Point: Walmer House, 296 Regent Street,	Issue No: 100
			London W1-borehole B	Version Start Date: 26/11/1979
	1055.0		Data Type: Point	Version End Date:
Not	1857.0	S	Licence No: 28/39/39/0138	Annual Volume (m³): 9126
shown			Details: Drinking, Cooking, Sanitary,	Max Daily Volume (m³): 25
			Washing, (Small Garden) -	Original Application No: NPS/WR/01167
			Commercial/Industrial/Public Services	Original Start Date: 11/10/1971
			Direct Source: Thames Groundwater	Expiry Date: -
			Point: Walmer House, 296 Regent Street,	Issue No: 102
			London, W1b - Borehole 'a'	Version Start Date: 29/11/2012
			Data Type: Point	Version End Date:
Not	1876.0	S	Licence No: 28/39/39/0138	Annual Volume (m³): 9126
shown			Details: Drinking, Cooking, Sanitary,	Max Daily Volume (m³): 25
			Washing, (Small Garden) -	Original Application No: NPS/WR/01167:
			Commercial/Industrial/Public Services	Original Start Date: 11/10/1971
			Direct Source: Thames Groundwater	Expiry Date: -
			Point: Walmer House, 296 Regent Street,	Issue No: 102
			London, W1b - Borehole 'b'	Version Start Date: 29/11/2012
			Data Type: Point	Version End Date:
Not	1907.0	S	Licence No: 28/39/39/0138	Annual Volume (m³): 9126
shown			Details: Drinking, Cooking, Sanitary,	Max Daily Volume (m³): 25
			Washing, (Small Garden) -	Original Application No: -
			Commercial/Industrial/Public Services	Original Start Date: 11/10/1971
			Direct Source: Thames Groundwater	Expiry Date: -
			Point: Borehole 'a' At Walmer House, 296	Issue No: 100
			Regent Street, London W1	Version Start Date: 26/11/1979
			Data Type: Point	Version End Date:
Not	1907.0	S	Licence No: 28/39/39/0138	Annual Volume (m³): 9126
shown			Details: Drinking, Cooking, Sanitary,	Max Daily Volume (m³): 25
			Washing, (Small Garden) -	Original Application No: -
			Commercial/Industrial/Public Services	Original Start Date: 11/10/1971
			Direct Source: Thames Groundwater	Expiry Date: -
			Point: Walmer House, 296 Regent Street,	Issue No: 100
			London W1-borehole A	Version Start Date: 26/11/1979
			Data Type: Point	Version End Date:

5.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site?

Yes

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (5b):

ID	Distance	Direction	NGR	Details	S
40B	341.0	N	529750,	Licence No: 28/39/39/0172	Annual Volume (m³): -
			183600	Details: Make-Up or Top Up Water	Max Daily Volume (m³): -
				Direct Source: Thames Surface Water -	Application No: -
				Non Tidal	Original Start Date: 18/9/1991
				Point: Grand Union Canal At Camley	Expiry Date: -
				Street Nature Park, London	Issue No: 100
				Data Type: Point	Version Start Date: 18/9/1991
					Version End Date:
41B	341.0	N	529750,	Licence No: 28/39/39/0172	Annual Volume (m³): -
			183600	Details: Make-Up or Top Up Water	Max Daily Volume (m³): -
				Direct Source: Thames Surface Water -	Application No: -
				Non Tidal	Original Start Date: -
				Point: Camley Street Nature Park, London	Expiry Date: -
				Data Type: Point	Issue No: 100
					Version Start Date: 18/9/1991
					Version End Date:





42	552.0	NE	530310,	Licence No: 28/39/39/0164	Annual Volume (m³): 7010000
			183520 [°]	Details: Non-Evaporative Cooling	Max Daily Volume (m³): 19520
				Direct Source: Thames Surface Water -	Application No: -
				Non Tidal	Original Start Date: 18/7/1980
				Point: Maiden Lane Bridge, London, Nw1 -	Expiry Date: -
				Regents Canal	Issue No: 101
				Data Type: Point	Version Start Date: 17/12/2007
				• •	Version End Date:
Not	1411.0	NW	528500,	Licence No: 28/39/39/0164	Annual Volume (m³): 7010000
shown			184020	Details: Non-Evaporative Cooling	Max Daily Volume (m³): 19520
				Direct Source: Thames Surface Water -	Application No: -
				Non Tidal	Original Start Date: 18/7/1980
				Point: Southampton Bridge, London, Nw8	Expiry Date: -
				- Regents Canal	Issue No: 101
				Data Type: Point	Version Start Date: 17/12/2007
					Version End Date:
Not	1419.0	NW	528490,	Licence No: 28/39/39/0173	Annual Volume (m³): -
shown			184020	Details: Non-Evaporative Cooling	Max Daily Volume (m³): -
				Direct Source: Thames Surface Water -	Application No: -
				Non Tidal	Original Start Date: 8/12/1994
				Point: Oval Road, Camden - Grand Union	Expiry Date: -
				Regents Canal	Issue No: 100
				Data Type: Point	Version Start Date: 8/12/1994
					Version End Date:

5.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site?

Yes

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (5c):

ID	Distance	Direction	NGR	Detail	S
Not shown	1244.0	NE	531020, 183690	Licence No: 28/39/39/0207 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Barnard Park, Islington - Borehole Data Type: Point	Annual Volume (m³): 914544 Max Daily Volume (m³): 3024 Original Application No: - Original Start Date: 2/5/2003 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: Version End Date:
Not shown	1426.0	Е	531280, 182760	Licence No: 28/39/39/0201 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: New River Head, Finsbury - Borehole Data Type: Point	Annual Volume (m³): 1261440 Max Daily Volume (m³): 3456 Original Application No: WRA/R/2/2 Original Start Date: 8/1/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: Version End Date:
Not shown	1563.0	Е	531450, 182900	Licence No: 28/39/39/0208 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Sadler's Wells Theatre, London Data Type: Point	Annual Volume (m³): 473040 Max Daily Volume (m³): 1296 Original Application No: WRA/R/1010 Original Start Date: 13/12/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: Version End Date:
Not shown	1563.0	Е	531450, 182900	Licence No: 28/39/39/0188 Details: Water Bottling Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 29/9/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: Version End Date:
Not shown	1563.0	Е	531450, 182900	Licence No: 28/39/39/0188 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 29/9/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: Version End Date:





Not shown	1563.0	Е	531450, 182900	Licence No: 28/39/39/0208 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London Data Type: Point	Annual Volume (m³): 473040 Max Daily Volume (m³): 1296 Original Application No: WRA/R/1010 Original Start Date: 13/12/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date:
Not shown	1563.0	Е	531450, 182900	Licence No: 28/39/39/0188 Details: Water Bottling Direct Source: Thames Groundwater Point: Borehole At Sadlers Wells Theatre, London Data Type: Point	Version End Date: Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: A/N/6488 Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100
					Version Start Date: Version End Date:
Not shown	1563.0	E	531450, 182900	Licence No: 28/39/39/0188 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At Sadlers Wells Theatre, London	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: A/N/6488 Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date:
Not	1721.0	NW	528800,	Data Type: Point Licence No: 28/39/39/0091	Version End Date: Annual Volume (m³): 17997
shown	1/21.0	IVV	184700	Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Kentish Town Sports Centre, Prince Of Wales St Data Type: Point	Max Daily Volume (m³): 604.6 Original Application No: NPS/WR/010565 Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date:
Not shown	1721.0	NW	528800, 184700	Licence No: 28/39/39/0091 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Two Bores At Kentish Town Sports Centre, Prince Of Wales St Data Type: Point	Version End Date: Annual Volume (m³): 94506 Max Daily Volume (m³): 1813.8 Original Application No: NPS/WR/010565 Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:
Not shown	1780.0	S	529100, 181400	Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Walmer House, 296 Regent Street, London W1-borehole B Data Type: Point	Annual Volume (m³): 9126 Max Daily Volume (m³): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:
Not shown	1780.0	S	529100, 181400	Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'b' At Walmer House, 296 Regent Street, London W1 Data Type: Point	Annual Volume (m³): 9126 Max Daily Volume (m³): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:
Not shown	1857.0	S	529010, 181350	Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Walmer House, 296 Regent Street, London, W1b - Borehole 'a' Data Type: Point	Annual Volume (m³): 9126 Max Daily Volume (m³): 25 Original Application No: NPS/WR/011671 Original Start Date: 11/10/1971 Expiry Date: - Issue No: 102 Version Start Date: Version End Date:
Not shown	1876.0	S	529010, 181330	Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Walmer House, 296 Regent Street, London, W1b - Borehole 'b' Data Type: Point	Annual Volume (m³): 9126 Max Daily Volume (m³): 25 Original Application No: NPS/WR/011671 Original Start Date: 11/10/1971 Expiry Date: - Issue No: 102 Version Start Date: Version End Date:





Not	1907.0	S	529000,	Licence No: 28/39/39/0138	Annual Volume (m³): 9126
shown			181300	Details: Drinking, Cooking, Sanitary,	Max Daily Volume (m³): 25
				Washing, (Small Garden) -	Original Application No: -
				Commercial/Industrial/Public Services	Original Start Date: 11/10/1971
				Direct Source: Thames Groundwater	Expiry Date: -
				Point: Borehole 'a' At Walmer House, 296	Issue No: 100
				Regent Street, London W1	Version Start Date:
				Data Type: Point	Version End Date:
Not	1907.0	S	529000,	Licence No: 28/39/39/0138	Annual Volume (m³): 9126
shown			181300	Details: Drinking, Cooking, Sanitary,	Max Daily Volume (m³): 25
				Washing, (Small Garden) -	Original Application No: -
				Commercial/Industrial/Public Services	Original Start Date: 11/10/1971
				Direct Source: Thames Groundwater	Expiry Date: -
				Point: Walmer House, 296 Regent Street,	Issue No: 100
				London W1-borehole A	Version Start Date:
				Data Type: Point	Version End Date:

5.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site?

No

Database searched and no data found.

5.7 River Quality

Is there any Environment Agency information on river quality within 1500m of the study site?

Yes

Biological Quality:

Biological Quality data describes water quality in terms of 83 groups of macroinvertebrates, some of which are pollution sensitive. The results are graded from A ('Very Good') to F ('Bad').

The following Biological Quality records are shown on the Hydrology Map (5d):

Biological Quality Grade
2005 2006 2007 2008 2009
nion F F F F E m) r - End
9

Chemical Quality:

Database searched and no data found.

5.8 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site?

Yes

The following Detailed River Network records are represented on the Hydrology Map (5d):

ID	Distance	Direction	Details	
1	0.0	On Site	River Name: Regent's Canal	River Type: Extended Culvert (greater than 50m)
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined





2	287.0	NE	River Name: Grand Union Canal	River Type: Canal
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined
3A	340.0	NE	River Name: -	River Type: Canal
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined
4A	340.0	NE	River Name: -	River Type: Canal
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined
5	395.0	NE	River Name: Union Canal	River Type: Canal
			Water Course Name: -	Catchment: -
			Welsh River Name: -	Drain: NO
			Alternative Name: -	Main River Status: Currently Undefined

5.9 Surface Water Features

Are there any surface water features within 250m of the study site?

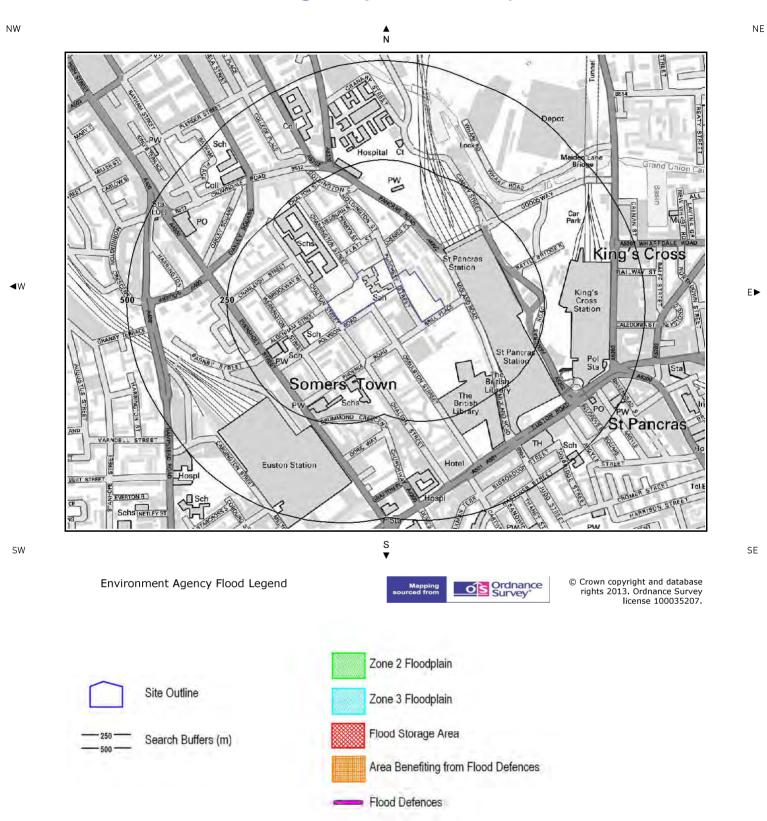
No

Database searched and no data found.





6. Environment Agency Flood Map







6. Flooding

6.1 Zone 2 Flooding

Zone 2 floodplain estimates the annual probability of flooding as one in one thousand (0.1%) or greater from rivers and the sea but less than 1% from rivers or 0.5% from the sea. Alternatively, where information is available they may show the highest known flood level.

Is the site within 250m of an Environment Agency indicative Zone 2 floodplain?

No

Database searched and no data found.

6.2 Zone 3 Flooding

Zone 3 estimates the annual probability of flooding as one in one hundred (1%) or greater from rivers and a one in two hundred (0.5%) or greater from the sea. Alternatively, where information is available they may show the highest known flood level.

Is the site within 250m of an Environment Agency indicative Zone 3 floodplain?

No

Database searched and no data found

6.3 Flood Defences

Are there any Flood Defences within 250m of the study site?

No

6.4 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site?

No

6.5 Areas used for Flood Storage

Are there any areas used for Flood Storage within 250m of the study site?

No

6.6 Groundwater Flooding Susceptibility Areas

Are there any British Geological Survey groundwater flooding susceptibility flood areas within 50m of the boundary of the study site?

No

What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Negligible





6.7 Groundwater Flooding Confidence Areas

What is the British Geological Survey confidence rating in this result?

Not Applicable

Notes:

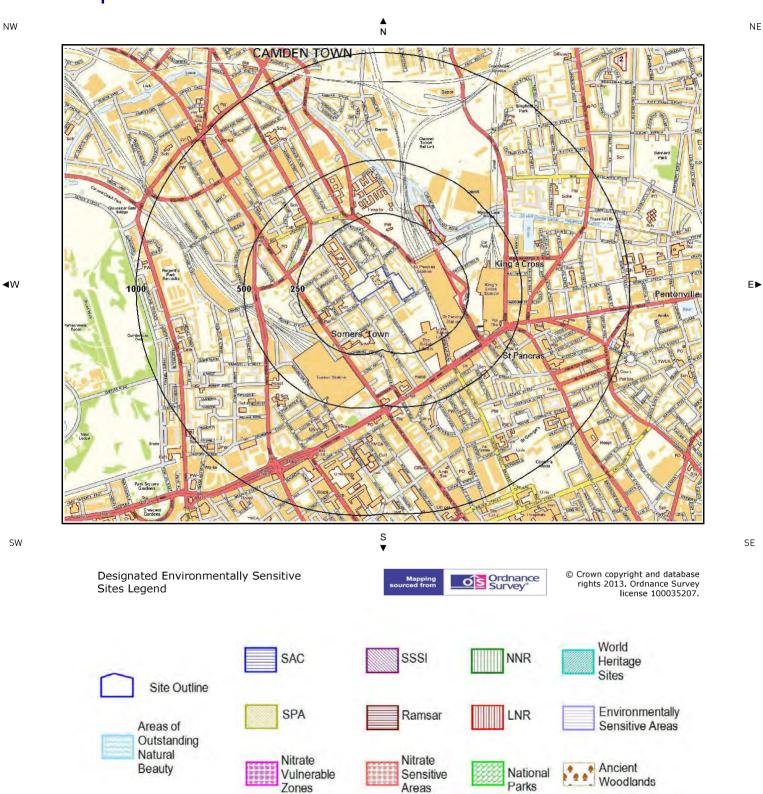
Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The **confidence rating** is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.





7.Designated Environmentally Sensitive Sites Map







7. Designated Environmentally Sensitive Sites

Presence of Designated En	vironmentally Sensitive Sites within 2000m of the study site?	Yes
Records of Sites of Special	Scientific Interest (SSSI) within 2000m of the study site:	0
Database searched and no da	ta found.	
Records of National Nature	Reserves (NNR) within 2000m of the study site:	0
Database searched and no da	ta found.	
Records of Special Areas of	f Conservation (SAC) within 2000m of the study site:	0
Database searched and no da	ta found.	
Records of Special Protecti	on Areas (SPA) within 2000m of the study site:	0
Database searched and no da	ta found.	
Records of Ramsar sites wi	ithin 2000m of the study site:	0
Database searched and no da	ta found.	
Records of Local Nature Re	serves (LNR) within 2000m of the study site:	2
	eserve (LNR) records provided by Natural England/Countryside Council for represented as polygons on the Designated Environmentally Sensitive Sites M	
ID Distance Direction 1 229.0 NE 2 1407.0 NE	LNR Name Data Sou Camley Street Nature Park Natural Eng Barnsbury Wood Natural Eng	gland
Records of World Heritage	Sites within 2000m of the study site:	О
Database searched and no da	ta found.	· · · · · · · · · · · · · · · · · · ·
Records of Environmentally	y Sensitive Areas within 2000m of the study site:	0
Database searched and no da	ta found.	
Records of Areas of Outsta	nding Natural Beauty (AONB) within 2000m of the study site:	0
Database searched and no da	ta found.	
Report Reference: EMS-20374	46_296431	





Records of National Parks (NP) within 2000m of the study site:		
Database searched and no data found.		
Records of Nitrate Sensitive Areas within 2000m of the study site:	o	
Database searched and no data found.		
Records of Nitrate Vulnerable Zones within 2000m of the study site:	0	
Database searched and no data found.		
Records of Ancient Woodland within 2000m of the study site:	0	
Database searched and no data found.		





8. Natural Hazards Findings

8.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a GroundSure GeoInsight, available from our website. The following information has been found:

8.1.1 Shrink Swell

What is the maximum Shrink-Swell* hazard rating identified on the study site?

Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

Ground conditions predominantly high plasticity. Do not plant or remove trees or shrubs near to buildings without expert advice about their effect and management. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a probable increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a probable increase in insurance risk during droughts or where vegetation with high moisture demands is present.

8.1.2 Landslides

What is the maximum Landslide* hazard rating identified on the study site?

Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

8.1.3 Soluble Rocks

What is the maximum Soluble Rocks* hazard rating identified on the study site?

Null - Negligible

Soluble rocks are not present in the search area. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

8.1.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site?

Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.





8.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site?

Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

8.1.6Running Sand

What is the maximum Running Sand* hazard rating identified on the study site?

Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

^{*} This indicates an automatically generated 50m buffer and site.





9.Mining

9.1 Coal Mining

Are there any coal mining areas within 75m of the study site?

No

Database searched and no data found.

9.2 Shallow Mining

What is the subsidence hazard relating to shallow mining on-site*?

Negligible

*Please note this data is searched with a 150m buffer.

9.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site?

No

Guidance: No Guidance Required.





10.Contacts

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Kingsley Dunham Centre

Keyworth, Nottingham NG12 5GG

Tel: 0115 936 3143. Fax: 0115 936 3276. Email:

enquiries@bgs.ac.uk Web: www.bgs.ac.uk

BGS Geological Hazards Reports and general geological

enquiries

Environment Agency

National Customer Contact Centre PO Box 544 Rotherham S60 1BY

Tel: 08708 506 506

Web: www.environment-agency.gov.uk Email: enquiries@environment-agency.gov.uk

Health Protection Agency

Chilton, Didcot, Oxon, OX11 ORQ

Tel: 01235 822622 www.hpa.org.uk/radiation Radon measures and general radon information and

guidance

The Coal Authority

200 Lichfield Lane, Mansfield, Notts NG18 4RG

Tel: 0845 762 6848 DX 716176 Mansfield 5

Web: www.groundstability.com

Ordnance Survey

Romsey Road Southampton SO16 4GU

Tel: 08456 050505

Local Authority

Authority: Camden London Borough Council

Phone: 020 7278 4444 Web: www.camden.gov.uk

Address: Camden Town Hall, Judd Street, Camden, London,

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Report Reference: EMS-203746_296431













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