

### A417 Missing Link TR010056

6.4 Environmental Statement Appendix 13.11 Water Features Survey (Part 1 of 2)

Planning Act 2008

APFP Regulation 5(2)(a)
Infrastructure Planning (Applications: Prescribed Forms and
Procedure) Regulations 2009

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## Infrastructure Planning Planning Act 2008

# The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

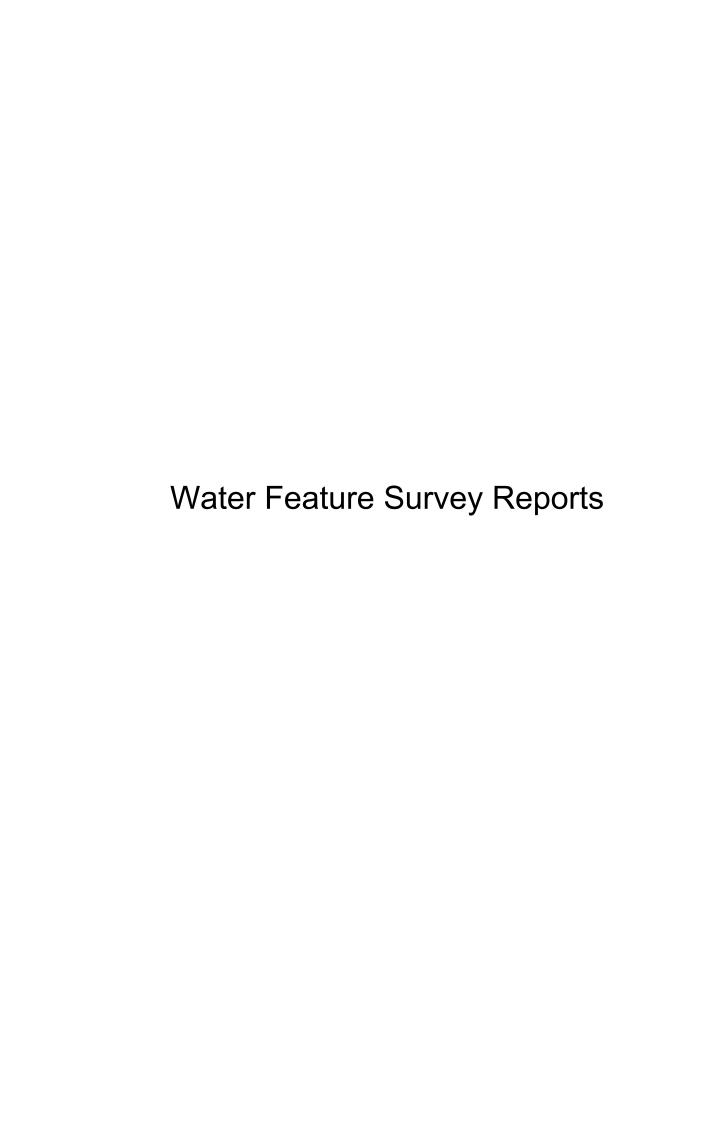
#### **A417 Missing Link**

#### Development Consent Order 202[x]

#### 6.4 Environmental Statement Appendix 13.11 Water Features Survey (Part 1 of 2)

Regulation Number:	5(2)(a)
Planning Inspectorate	TR010056
Scheme Reference	
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Author:	A417 Missing Link

Version	Date	Status of Version	
C01	May 2021	Application Submission	



### **Water Features Survey Identification Form**

Applicant Name	Highways England		A417 Missing Link study area	
Survey Completed by: (Nar	e) Karen Scott / Harry Jarvis / Tom Tubridy / Chris Millward	Farm, Stirling)		
(Compa	ny) Mott MacDonald Sweco JV	Borehole NGR	N/A	
(Telephone	lo.)	, ,	16 <sup>th</sup> – 19 <sup>th</sup> April 2018, 29 <sup>th</sup> – 31 <sup>st</sup> May 2018, 23 <sup>rd</sup> – 27 <sup>th</sup> July 2018, 4 <sup>th</sup> – 8 <sup>th</sup> February 2019, 18 <sup>th</sup> – 22 <sup>nd</sup> March 2019	

No	NGR Licence Ref	Type (well/borehole/pond/spring/ river/wetland etc)  Use (Agricultural/drinking water/industrial etc	Abstraction Rate (m3/d)  Pump Suction Depth (m)	Diameter of Borehole (mm) Dip Tube installed (Y/N)	Datum (m)  Depth of Borehole (m)	Depth to rest water level (m) (date)  Depth to pumped water level (m)	Water feature description (inc. any access issues)
1	SO930158	SW – stream (Norman's	_	-	-	-	16/04/2018
		Brook tributary)					Watercourse directed through culvert
	N/A	-	-	-	-	-	(approx. 0.5m diameter) beneath road and house. Difficult to access. Immediately DS of culvert estimated at 1m wide, 5cm deep and is flowing at approximately 0.048575 m3/s (measured twice on 16/04/2018 15:40 0.994 m/s and 0.949 m/s). Flow direction: WSW 254°. (1mx0.05mx0.994m/s= 0.0497 m3/s) (1mx0.05mx0.949m/s= 0.0475 m3/s)
							18/04/2018
							Measured again on 18/04/2018 (11:05) as it rained heavily overnight, flowing at approximately 0.11228m3/s and is estimated at 1m wide 14cm deep (in the centre of the channel). (1m*0.14m*0.802m/s)
							24/07/2018 12:53
							Pool of standing water immediately DS of culvert. Not flowing and dry beyond that.
							05/02/2019 09:00
							Pool of standing water immediately DS of culvert, very slight flow from culvert (dripping) and dry beyond that.
							19/03/2019 (16:00)
							Flowing but inaccessible

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
2	SO930158	SW – stream (Norman's Brook)	-	-	-	-	16/04/2018
	N/A	-	-	-	-	-	Approximately 50 yards downstream of no.1. Approximately 1.25m wide, 10cm deep and is flowing at approximately 0.12451 m3/s (measured twice on 16/04/2018 16:04: 30cm from right bank = 0.05401 m3/s (0.55*0.1*0.982m/s) and 80cm from right bank = 0.0705 m3/s (0.75*0.1*0.94m/s = m3/s)
							24/07/2018 12:53
							Pool of standing water immediately DS of culvert. Not flowing and dry beyond that.
							24/07/2018 09:05
							Patches of shallow water not flowing.
							19/03/2019 (16:05)
							0.9m wide, 0.1m deep and flowing at 0.01269m3/s (0.9*0.1*0.141=0.01269)
							Outfall observed on the right hand bank which was flowing, there was a very strong smell of hydrocarbons, possible road drainage.
5	SO898145	SW – stream	-	-	-	-	17/04/2018
	N/A	-	-	-	-	-	Watercourse (OS maps identify it as coming from an issue) flowing in an NE direction, with a tributary (no. 6) feeding from the right bank. The watercourse

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							downstream of the confluence is approximately 76cm wide, 7cm deep (in the centre) and is flowing at approximately 0.03399 m3/s (17/04/2018 09:56). (0.76*0.07*0.639=0.03399m3/s)
							25/07/2018 16:06.
							Approximately 80cm wide, 3 cm deep and 0.0053m3/s (0.80*0.03*0.221=0.0053m3/s)
							07/02/2019 08:45-heavy rain night before
							DS of trib/conf - Watercourse approx. 0.5m wide, with a depth of 7cm deep in the centre and flowing at approximately 0.00791m3/s (0.5x0.07x0.226=0.00791)
							The watercourse upstream of the confluence is approximately 52cm wide, 7cm deep (in the centre) and is flowing at approximately 0.0141 m3/s (17/04/2018 10:00). (0.52*0.07*0.387=0.0141m3/s)
							25/07/2018 16:06.
							Not measured, trib dry
							07/02/2019 08:50 – heavy rain night before
							US of trib/conf - Watercourse approx. 0.6m wide, with a depth of 8cm deep in the centre and flowing at approximately 0.003118m3/s (0.6x0.08x0.336=0.003118)

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							20/03/2019
							Approx. 0.5m wide, 0.05m deep and flowing at 0.00865m3/s (0.5*0.05*0.346=0.00865)
6	SO898145	SW – stream	-	-	-	-	17/04/2018
	N/A	-	-	-	-	-	Not marked on OS mapping. This watercourse runs adjacent to the road and flows in a northerly direction until its confluence with no. 5. There was very little flow observed and therefore not able to be flow gauged. Upstream it flows from an outfall (approx. 0.5m diameter) where it is culverted under Coppers Hill Farm.
7	SO916141	SW – stream	-	-	-	-	17/04/2018
	N/A	-	-	-	-	-	Watercourse flowing in an approximate WNW 292° direction. The watercourse is approximately 78cm wide and 5cm deep in the centre and is flowing at approximately 0.0365 m3/s (17/04/2018 11:47). (0.78*0.05*0.937=0.0365m3/s) Further downstream a tributary joins this watercourse on the right hand bank (not visible from public access paths).
							25/07/2018 15:01.
							Approximately 30cm wide, 1cm deep – flowing but not enough to gauge.
							07/02/2019 09:56 – heavy rain night before.
							Watercourse approx. 03m wide, with a depth of 5cm deep in the centre and

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							flowing at approximately 0.002805m3/s (0.3x0.05x0.187=0.002805)
8	SO916144	SW – stream	-	-	-	-	17/04/2018
	N/A	-	-	-	-	-	Watercourse flowing in an approximate NW 304° direction and is estimated to be 1m wide. There is no access to flow gauge.
							OS maps indicated it is culverted, the watercourse was not visible at the point and it is unclear where it goes.
9	SO916144	SW – open channel/pond	-	-	-	-	17/04/2018
	N/A	-	-	-	-	-	Small section of open channel/pond showing two watercourses directed through culverts/outfalls (one flowing in an approximate SW 223° direction and a second, which was not flowing, in an approximate NW 321° direction) before being directed through another culvert which has a trash grill covering it. There was no access to measure flow.
10	SO905149	SW – open channel and reservoir	-	-	-	-	17/04/2018 One large reservoir split into three sections
	N/A	-	-	-	-	-	with weirs/spills ways to allow movement of water between the three sections. The reservoir is fed but numerous inlets to the south. A spill way located on the northern and southern section feeds the channel which runs along the east side of the reservoir in a northerly direction and forms the head of Horsbere Brook.
11	SO902146	SW – stream	-	-	-	-	17/04/2018 Watercourse directed through

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
	N/A	-	-	-	-	-	culvert/outfall. Flowing in an approximate E 96° direction into the reservoir (according to OS maps). No access for flow gauging.
12	SO901146	SW – stream	-	-	-	-	17/04/2018
	N/A	-	-	-	-	-	Watercourse flowing in an approximate NNE 334° direction. The watercourse is approximately 56cm wide, 5cm deep in the centre and is flowing at approximately 0.0083 m3/s (17/04/2018 12:57). (0.56*0.05*0.298=0.0083m3/s)
							26/07/2018. Not measured – poor access as crops in field. This is the downstream extent of no.5.
							07/02/2019 10:37-heavy rain night before
							Watercourse approx. 0.3m wide, with a depth of 9cm deep in the centre and flowing at approximately 0.010989m3/s (0.3x0.09x0.407=0.010989)
13	SO906157	SW – stream	-	-	-	-	17/04/2018
	N/A	-	-	-	-	-	Watercourse flowing in an NNE 336° direction, two weirs/steps at this point. Very little flow and no access for flow gauging.
14	SO906157	SW – stream	-	-	-	-	17/04/2018
	N/A	-	-	-	-	-	Watercourse flowing in an approximate N 1° direction. The watercourse is approximately 70cm wide, 5cm deep in the centre and is flowing at approximately 0.0086 m3/s (17/04/2018 14:21) at the bridge crossing.

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							(0.70*0.05*0.247=0.0086m3/s)
							25/07/2018 16:00 Dry
							J.y
							04/02/2019 14:59
							Watercourse approx. 1.5m wide, with a depth of 3cm deep in the centre and flowing at approximately 0.0072m3/s (1.5x0.03x0.160=0.0072)
	SO906157	SW – stream	-	-	-	-	17/04/2018
15	N/A	-	-	-	-	-	Watercourse identified adjacent to public footpath, no indication of this watercourse on the OS map. Water levels are low and there is very little obvious flow in the stream, therefore flow direction is unknown. Does not drain into no. 14 and
							could be a land drain? Poor access so unable to flow gauge or identify start/end.
16	SO930159	SW – spring flow gauged	-	-	-	-	18/04/2018 Watercourse is 84 cm wide flowing in a
	N/A	-	-	-	-	-	WNW 294° direction. It is flowing at approximately 0.0266 m3/s (measured twice: 16cm from the right bank, 8cm deep (0.38m*0.08m*0.625m/s=0.019m3/s) and 60cm from the right bank, 6cm deep (0.46m*0.06m*0.274m/s = 0.00756m3/s)) (18/04/18 10:18).
							24/07/2018 Did not investigate as owner confirmed that

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							they were dry
							05/02019 09:15
							Dry - not running
							19/03/2019 (15.45) Approx. 0.4m wide, 0.05m deep and 0.00656m3/s (0.4*0.05*0.328=0.00656)
17	SO930159	SW – spring flow gauged	-	-	-	-	18/04/2018 Watercourse is approximately 50cm wide
	N/A	-	-	-	-	-	(just upstream of the confluence with no. 16) and 8cm deep in the centre flowing in a NW 330°. It is flowing at approximately 0.0168 m3/s (0.5m*0.08m*0.420m/s) (18/04/18 10:33).
							24/07/2018
							Did not investigate as owner confirmed that they were dry
							05/02019 09:15
							Dry - not flowing
							19/03/2019 (15.30) Approx. 0.6m wide, 0.06m deep and 0.0069m3/s (0.6*0.06*0.192=0.0069)
18	SO931158	SW – spring flow gauged	-	-	-	-	18/04/2018
							Watercourse is 96 cm wide flowing in an NNW 331° direction just below the
	N/A	-	-	-	-	-	confluence of no. 16 and no. 17.

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							It is flowing at approximately 0.0155m3/s (30cm from the right bank, 5cm deep (0.3m*0.05m*0.218m/s = 0.00327m3/s) and at 68cm from the right bank, 7cm deep (0.68m*0.07m*0.312m/s = 0.01223) (18/04/18 10:56). Immediately downstream of the gauging site the water course is culverted for approximately 1.5m.
							24/07/2018  Did not investigate as owner confirmed that they were dry
							05/02019 09:15 Dry - not flowing
							19/03/2019 (15.13) Approx. 0.95m wide, 0.08m deep and 0.041m3/s (0.95*0.08*0.540=0.041)
19	SO931158	SW – spring flow gauged	-	-	-	-	18/04/2018 Watercourse is approximately 56cm wide
	N/A	-	-	-	-	-	and 10cm deep in the centre flowing in a W 282° direction. It is flowing at approximately 0.021896 m3/s (0.56m*0.1m*0.391m/s) (18/04/18 11:01). Immediately downstream of the flow gauging site the water course is culverted under the house and appears at no. 1.
							24/07/2018 Did not investigate as owner confirmed that

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							they were dry
							05/02019 09:15
							Dry - not flowing
							19/03/2019 (15.00)
							Approx. 0.5m wide, 0.19m deep and flowing at 0.0152m3/s (0.5*0.19*0.160=0.0152)
	SO948123	SW - pond					18/04/2018
20	N/A	-	-	-	-	-	The most downstream pond in the system of three. Downstream of this is a watercourse, which is a tributary of the River Frome. Upstream there is a small watercourse linking the pond with another upstream. Unknown use for this pond and the other two in the cascade.
21	SO948123	SW – watercourse	-	-	-	-	18/04/2018
	N/A	-	-	-	-	-	The downstream end of no. 20 showing a weir over spilling into the watercourse. No access to the watercourse for flow gauging
22	SO948123	SW - pond	-	-	-	-	18/04/2018
	N/A	-	-	-	-	-	Middle and upper pond. A weir is identified at the downstream end of pond upper pond and the upstream end of middle pond, the upstream pond spills into the middle pond when the water levels reach the top of the weir. There was no access for flow gauging.
23	SO948123	SW - pond	-	-	-	-	18/04/2018

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
	N/A	-	-	-	-	-	The upper pond is fed by a stream with flows in a south easterly direction at the head of the pond.
24	SO946126	SW - watercourse	_	-	-	-	18/04/2018
	N/A				-		Watercourse is approximately 137cm wide and 26cm deep in the centre flowing in a SE 138° direction. There is a tributary which enters on the right bank and upstream of this section the watercourse is culverted under a road. The watercourse is flowing at approximately 0.0442 m3/s downstream of the confluence (with no. 25) (18/04/18 13:56). (1.37*0.26*0.124=0.0442m3/s)  25/07/2018 10:00 U/S pools - small areas of standing water. D/S river – not running but isolated small pools of water.  07/02/2019 11:40-heavy rain night before DS of conf/trib. Watercourse is approx. 1.5m wide, with a depth of 15cm deep in the centre and flowing at approximately 0.083475m3/s (1.5x0.15x0.371=0.083475) US of conf/trib. Watercourse is approx. 1.5m wide, with a depth of 15cm deep in the centre and flowing at approximately 0.0612m3/s (1.5x0.15x0.272=0.0612)
25	SO966126	SW - watercourse	_	-	_	_	18/04/2018
23	N/A	-	-	-	-	-	This watercourse is culverted under the road and upstream of this the watercourse

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							is open and is fed by system of ponds. Upstream of the culvert the watercourse is 70cm wide and 6cm deep in the centre flowing approximately in an ENE 60° direction. The watercourse is flowing at approximately 0.224 m3/s upstream of the culvert (18/04/18 13:59). (0.70*0.06*0.533=0.224m3/s)
							25/07/2018 09:59 U/S dry and overgrown, D/S pools but not flowing – see no.24
							07/02/2019 11:40-heavy rain night before
							DS of conf/trib. Watercourse is approx. 1.5m wide, with a depth of 15cm deep in the centre and flowing at approximately 0.083475m3/s (1.5x0.15x0.371=0.083475)
26	SO966126	SW - watercourse	-	-	-	-	18/04/2018
	N/A	-	-	-	-	-	Small cascades along this entire stretch with springs entering the watercourse via the left bank.
27	SO944131	SW - watercourse	-	-	-	-	18/04/2018
	N/A		-	_	-	-	The watercourse is 65cm wide and 27cm deep and is flowing at approximately 0.0474m3/s (18/04/18 14:38) (0.65*0.27*0.27=0.0474) in a SE direction. Upstream there is evidence of overland flow where the watercourse has broken its banks. An outfall is identified downstream which was not discharging. This is a potential surface water drain.

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							23/07/2018 15:27 – very little flow and overgrown. Poor access and not enough flow to gauge.
							07/02/2019 12:07-heavy rain night before
							Spring-fed watercourse is approx. 0.8m wide, with a depth of 20cm deep in the centre and flowing at approximately 0. 05952m3/s (0.8x0.20x0.372=0.05952)
							Flowing heavy from the pool upstream
29	SO942132	SW - watercourse	-	-	-	-	18/04/2018
	N/A	-	-	-	-	-	The watercourse is potentially spring fed and 48cm wide and 6cm deep in the centre. It is flowing at approximately 0.0173 m3/s (18/04/18 14:49). (0.48*0.06*0.60=0.0173m3/s) flowing approximately in an ENE 69° direction. This water course is upstream of the pond identified in no.28 and feeds it with another spring fed watercourse.
							23/07/2018 14:50 Dry
							07/02/2019 12:40-heavy rain night before
							Spring-fed watercourse is approx. 0.3m wide and 5cm deep in the centre and flowing at approximately 0. 0059m3/s (0.3x0.05x0.392=0.00588)
30	SO942133	SW - watercourse	-	-	-	-	18/04/2018

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	N/A	-	-	-	-	-	Water course is potentially spring fed and is 35cm wide and 3cm deep in the centre. It is flowing at approximately 0.010m3/s (18/04/2018 14:49) in a SE (137°) direction. (0.35*0.03*0.99=0.0104 m3/s)
							23/07/2018 14:30 Damp ground but no flow
							07/02/2019 12:31-heavy rain night before Spring-fed watercourse is approx. 0.25m wide, with a depth of 5cm deep in the centre and flowing at approximately 0. 0062m3/s (0.25x0.05x0.493=0.0061625)
31	SO945130	SW – watercourse	-	-	-	_	18/04/2018
31	N/A	-	-	-	-	-	Watercourse is potentially spring fed and is 69cm wide and 4cm deep in the centre. It is flowing in at approximate 0.0080m3/s (18/04/2018 15:51) (0.69*0.04*0.289=0.00798m3/s) in a SW (224°) direction. This watercourse joins no. 26 on its left bank.
							23/07/2018  Very poor access, overgrown with fallen tree. No visible sign of flow from the bottom end at the confluence with main river.
							07/02/2019 12:13-heavy rain night before Spring-fed watercourse is approx. 0.6m wide and 5cm deep in the centre and

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							flowing at approximately 0. 0026m3/s (0.6x0.05x0.087=0.00261)
32	N/A	SW - watercourse	-	-	-	-	18/04/2018
	N/A	-	-	-	-	-	Watercourse is flowing in an approximate ESE (68°) direction and joins no.31 on its right bank.
33	SO945131	SW – watercourse	-	-	-	-	18/04/2018
	N/A	-	-	-	-	-	Watercourse is directed though a culvert, which runs under the road. It is flowing in a WSW (241°) direction and is the upstream extent of no.31.
34	SO941130	SW - pond	-	-	-	-	Small pond. It is unknown if this is artificial or spring fed.
	N/A	-	-	-	-	_	or opining roa.
35	SO963154	SW – watercourse	-	-	-		19/04/2018
	N/A	-	-	-	-	-	This watercourse flows ENE (60°). A spring joins this watercourse from the left bank. There is no access for flow gauging (private land & highly vegetated)
36	SO964155	SW - watercourse	-	-	-	-	19/04/2018
	N/A	-	-	-	-	-	Watercourse is 120cm wide with a depth of 7cm in the centre. It is flowing with an approximate velocity of 0.067m3/s in an E (87°) direction (19/04/18 9:25) (1.2*0.07*0.799=0.06711m3/s)
							27/07/2018 10:51.
							Wet ground in places with small pools of standing water US. Dry at bridge where flow gauging previously carried out.

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							04/02/2019 13:01
							Watercourse approx. 1m wide and 14cm deep in the centre, flowing at approximately 0.027m3/s (1x0.14x0.192=0.02688)
							20/03/2019
							Approx.1m wide, 0.17m deep and flowing at 0.046m3/s (1*0.17*0.272=0.04624)
37	SO964155	SW – watercourse	-	-	-	-	19/04/2018
	N/A	-	-	-	-	-	River Churn, flowing in an S (101°) direction. Immediately downstream is confluence with no. 36. Flowing in a SSE direction (152°). No access for flow measurements. (19/04/18 9:35)
							27/07/2018 10:53.
							Flowing, still no access to gauge.
38	SO965155	SW- watercourse	-	-	-	-	19/04/2018
	N/A	-	-		-		Watercourse is approximately 150cm wide and 13cm deep in the centre. It is flowing at approximately 0.196 m3/s (19/04/18 09:38) (1.5*0.13*1.004=0.1958m3/s) in an approximate SW (226°) direction. This section of the watercourse is the downstream extent of 50. It is a tributary of the River Churn (37) and joins it on its right bank immediately downstream. Churn flows in an ESE (190°) direction downstream of this confluence.
							27/07/2018 10:56.
							Approximately 1.0m wide and 5cm deep in

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							the centre. It is flowing at approx. 0.033 m3/s (1*0.05*0.663=0.03315m3/s)
							04/02/2019 13:17
							Watercourse is approx. 1m wide and 8cm deep in the centre. It is flowing at approximately 0.065m3/s (1x0.08x0.812=0.06496)
39	SO962159	SW – watercourse	-	-	-	-	19/04/2018
	N/A	-	-	-	-	-	Watercourse is approx104cm wide and 14cm deep in the centre. It is flowing at approximately 0.193m3/s m/s (19/04/18 10:14) (1.04*0.14*1.324=0.19277m3/s) in a SE (160°) direction (at the point of gauging). This is the downstream extent of no. 47.
							27/07/2018 11:16.
							Watercourse is approximately 98cm wide, 9cm deep in the centre and flowing at approx. 0.482 m3/s (0.98*0.09*0.482=0.0425m3/s)
							04/02/2019 13:31
							Bushes along the bank have been cut back. Watercourse is approx. 1m wide and 12cm deep in the centre, and flowing at approximately 0.072m3/s (1x0.12x0.598=0.07176)
							20/03/2019
							Watercourse is approx.1m wide, 0.11m

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							deep and flowing at approx. 0.077m3/s (1*0.11*0.703=0.07733)
40	SO962159	SW -waterfall	-	-	-	-	19/04/2018
	N/A	-	-	-	-	-	Watercourse is either spring fed or is culverted underneath the road from an unknown start point. Downstream, there is a waterfall and beyond that the watercourse joins no. 39. This is private land with no access for flow gauging.
41	SO963159	SW – STW	-	-	-	-	19/04/2018
	N/A	-	-	-	-	-	Coberley Sewage Treatment Works. Outfall discharge location unknown.
42	SO9664159	SW –watercourse	-	-	-	-	19/04/2018
	N/A			-			River Churn is approximately 175cm wide and 29cm deep in the centre. Flowing with an approximate velocity of 0.5222 m3/s (0.29*1.75*1.029=0.5222m3/s) in an SSW 205° direction. Immediately to the left of this flow gauging location there is a small tributary of over land flow. The watercourse is culverted underneath the road. Downstream of the culvert, a tributary enters on the left, flowing in a W (280°) direction. This is either flowing from a culvert underneath a house, a spring or part of some form of drainage network.
							27/07/2018 11:31.  Approximately 1.3m wide, 14cm deep and flowing at approx. 0.540 m3/s (1.3*0.14*0.540=0.09828m3/s). Further downstream, the watercourse is overgrown, so not possible to view tributary discharging

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							from the left.
							04/02/2019 13:39
							Watercourse is approx. 1.5m wide and 25cm deep in the centre, flowing at approximately 0.172m3/s (1.5x0.25x0.459=0.172125)
							20/03/2019
							Approx.1m wide, 0.32m deep and flowing at 0.208m3/s (1*0.32*0.651=0.20832)
43	SO965159	SW – watercourse	-	-	-	-	19/04/2018
	N/A	-	-	-	-	-	River Churn, upstream of no. 42, flowing in a SW (227°) direction. The watercourse is swollen and flowing slightly overland. Upstream, the watercourse is in a steep sided valley with very dense vegetated banks, so the river is not visible although it can be heard flowing. No access for flow measurements.
44	SO965160	SW – watercourse	-	-	-	-	19/04/2018
	N/A	-	-	-	-	-	Drainage channel, potentially upstream of its confluence with 43. The very little visible flow is in a SSW (212°) direction.
45	SO965158	SW – watercourse	-	-	-	-	19/04/2018
	N/A	-	-	-	-	-	Identified as a pond on OS maps. At the time of survey, it was present only as waterlogged land. Water is directed through a small outfall into this 'pond'.
46	SO966157	SW – watercourse	-	-	-	-	19/04/2018

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
	N/A	-	-	-	-	-	Large pond (Leaden Wells) flowing into 2 outfalls under a bridge. At the downstream end of the pond, the watercourse is culverted and discharges through two outfalls in a W and SW direction.
47	SO960160	SW – watercourse	-	-	_	-	19/04/2018
71	N/A	-	-	-	-	-	Watercourse is culverted under the road. Downstream of this, there is a large pond. Upstream of the culvert, the watercourse flows in an ESE (110°) direction.
48	SO960159	SW – watercourse	-	-	-	-	19/04/2018
	N/A	-	-	-	-	-	This watercourse is the upstream extent of no. 47 and is flowing in an ESE (118°) direction. Further upstream, a spring-fed tributary joins the watercourse on its right-hand side. Upstream of this confluence, the watercourse is flowing in a NE (57°) direction.
49	SO960159	SW – watercourse	-	-	-	-	19/04/2018
	N/A	-	-	-	-	-	Watercourse is spring fed and is directed though a culvert under the road. Downstream of the culvert, it is approx. 99cm wide and 6cm deep with an approximate flow of 0.056 m3/s (19/04/28 11:45) (0.99*0.06*0.943=0.0560m3/s). It is flowing in an approximate NNW (335°) direction.
							27/07/2018 11:47. Watercourse is approx. 76cm wide, 12cm deep with a flow of 0.40m3/s (0.76*0.12*0.402=0.03666m3/s). Gauged upstream of confluence with main river and

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							downstream of culvert.
							04/02/2019 13:48  Upstream of confluence with main river and downstream of culvert, the watercourse is approx. 0.9m wide and 6cm deep in the centre, and flowing at approximately 0.015m3/s (0.9x0.06x0.276=0.014904)
							Main river: Watercourse is approx. 1.5m wide,and 6cm deep in the centre, and flowing at approximately 0.01m3/s (1.5x0.06x0.111=0.00999)
							Downstream of confluence with main river: Watercourse is approx. 1.5m wide and 6cm deep in the centre, and flowing at approximately 0.024m3/s (1.5x0.06x0.268=0.02412)
							20/03/2019  Downstream of confluence with main river.  Approx. 2m wide, 0.06m deep and flowing at 0.042m3/s (2*0.06*0.348=0.04176)
50	SO965148	SW – watercourse	-	-	-	-	19/04/2018
	N/A	-	-	-	-	-	The River Churn as viewed form the road bridge. A weir is situated upstream of the bridge.
51	SO946128	SW - Spring	-	-	-	-	25/07/2018 10:12
			-	-	-	-	Spring-fed watercourse is approx. 60cm

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							wide, 11cm deep, flowing in a SW (218°) direction at approx. 0.0069m3/s (0.60*0.11*0.104=0.00686m3/s). Flows directly into 52
							07/02/2019 11:52-heavy rain night before
							Spring-fed watercourse is approx. 0.8m wide, 12cm deep in the centre and flowing at approx. 0. 018m3/s (0.8x0.12x0.188=0.018048)
52	SO946128	SW - watercourse	-	-	-	-	25/07/2018 10:12
32							Upstream of spring confluence, watercourse is approx. 1m wide, 7cm deep and flowing at 0.0058m3/s. (1*0.07*0.083=0.00581m3/s) in a SE (137°) direction.
							Downstream of spring confluence, watercourse is approx. 1.1m wide, 11cm deep, flowing at 0.011m3/s (1.1*0.11*0.088=0.0106m3/s) in a SE 137° direction.
							07/02/2019 11:52 - heavy rain night before
							Downstream of spring confluence, watercourse is approx. 1.7m wide, 18cm deep in the centre and flowing at approx. 0. 0436m3/s (1.7x0.18x0.142=0.043452)
53	SO943132	SW- watercourse					23/07/2018 15:03
							Flow gauging of the culvert at the downstream extent. Watercourse is 25cm wide, 2cm deep and flowing at 0.002m3/s

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							(0.02*0.25*0.360=0.0018m3/s)
							07/02/2019 12:27 - heavy rain night before
							Flow gauging of the culvert at the downstream extent. Watercourse is approx. 0.25m wide, 5cm deep in the centre and flowing at approx. 0.012m3/s (0.25x0.05x0.946=0.011825)
54	SO945129	SW - Watercourse					25/07/2018 10:33
							Watercourse is approx. 1m wide, 3cm deep, flowing at approx. 0.0031m3/s (1*0.03*0.102=0.00306m3/s) in a SSE (162°) direction.
							07/02/2019 11:57- heavy rain night before
							Watercourse is approx. 1m wide 12cm deep in the centre and flowing at approximately 0. 044m3/s (1x0.12x0.363=0.04356)
58	393010 215847	SW - Watercourse					05/02/2019 09:56
							Watercourse is approx. 1cm deep with only slight flow. Too shallow to gauge.
59	393001 215830	SW - Watercourse					05/02/2019 09:58
							Dry watercourse with small pools of water upstream of culvert.
60	392988 215808	SW - Watercourse					16/04/2018
							Watercourse directed through culvert (approx. 0.5m diameter) beneath overgrown grassed area. Possible spring observed on left hand bank directed through culvert to discharge into watercourse (Norman's

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							Brook tributary). No access for flow gauging (private land)
							05/02/2019
							Downstream of culvert on main stream. Flow through pipe but unable to gauge.
61	392987 215794	Spring					16/04/2018
01							Spring observed on left hand bank (approx. 3m above ground level) directed through culvert into watercourse (Norman's Brook tributary). Most likely to be culverted drainage from the spring upstream. Supplies almost all of flow at head of Norman's Brook tributary. No access for flow gauging (private land).  05/02/2019 Spring flowing into watercourse (Norman's
							Spring flowing into watercourse (Norman's Brook tributary) not flow gauged using a bucket as it was flowing too quick.
62	392983 215799	SW - Watercourse					05/02/2019 watercourse (Norman's Brook tributary) is flowing but too shallow to gauge (approx. 1cm deep).
							Watercourse (Norman's Brook tributary) is approx. 0.87m wide, 0.07m deep and flowing at 0.0086m3/s (0.87*0.07*0.141=0.0085869)

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
63	392982 215798	SW - Watercourse					05/02/2019 Watercourse (Norman's Brook tributary) is approx. 1-2cm deep immediately upstream of no.61, this is too shallow to flow gauge.
64	392974 215796	SW - Watercourse					05/02/2019 Watercourse (Norman's Brook tributary)downstream of 61 is approx. 5cm deep, 0.45m wide and flowing at 0.006m3/s (0.05*0.5*0.228=0.0057).
							19/03/2019 Watercourse (Norman's Brook tributary) is approx. 0.87m wide, 0.06m deep and flowing at 0.019m3/s (0.87*0.06*0.355=0.018531)
65	392959 215793	SW - Watercourse					05/02/2019 (10:19) Watercourse (Norman's Brook tributary) approx. 5cm deep, 0.5m wide and flowing at 0.0057m3/s (0.05*0.5*0.226=0.00565).
66	392943 215775	SW - Watercourse					05/02/2019 (10:21) Watercourse (Norman's Brook tributary) slightly slower and wider than further upstream, with mini braids. It is approx. 1m wide and 1.5cm deep. Too shallow to gauge.
67	392922 215766	SW – Possible Road Drainage					05/02/2019 (10:23) Culvert observed discharging from the right hand bank into the watercourse (Norman's Brook tributary). The pipework and surrounds is broken and disconnected, this is potentially road drainage. Thewater depth

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							in culvert approx. 1 cm and too shallow to gauge.
68	392832 215733	SW - Watercourse					05/02/2019 (10:37) Watercourse (Norman's Brook tributary) approx. 1m wide, 5cm deep and flowing at 0.015m3/s (0.05*1*0.307=0.01535). Culvert present immediately downstream.
69	392820 215718	Sping					05/02/2019 (10:47) Petrifying spring rises via a seepage area just within grazing land and flows through the fenced boundary and down the left hand bank to discharge into watercourse (Norman's Brook tributary) immediately downstream of a culverted section. Petrified twigs, shells, seed cases etc. and tufa present along bed of this spring-fed tributary, which is approx. 10m long and 3m wide at the confluence with the stream. The spring was too shallow to flow gauge (less than 1cm deep)  19/03/2019 Spring approx. 0.35m wide, 0.03m deep and flowing at 0.004m/s (0.35*0.03*0.334=0.003507)
70	392804 215719	SW - Watercourse					05/02/2019 Watercourse (Norman's Brook tributary) downstream of culvert and confluence with petrifying spring. Approx. 5cm deep and 0.5m wide, flowing at 0.007m3/s (0.05*0.5*0.261=0.006525)

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							19/03/2019
							Watercourse (Norman's Brook tributary) approx.0.78m wide, 15cm deep and flowing at 0.044m3/s (0.78*0.15*0.334=0.043587)
71	392717 215698	SW - Watercourse					05/02/2019 (11:17) Watercourse (Norman's Brook tributary) banks and bed is modified to form a stepped weir like structure with a small waterfall
72	392691 215687	Spring					05/02/2019 (11:23) Springs flowing into watercourse (Norman's Brook tributary)from left hand bank. A pipe outfalls from the left hand bank but appears to be dry
73	392690 215695	SW - Watercourse					05/02/2019 (11:25) Watercourse (Norman's Brook tributary) downstream of confluence with 72. Approx. 14cm deep (to silt), 0.5 m wide and flowing at 0.006m3/s (0.14*0.5*0.090=0.0063)  19/03/2019 Watercourse (Norman's Brook tributary) approx.0.93m wide, 16cm deep and flowing at 0.054m3/s (0.93*0.16*0.363=0.0540)
74	392686 215694	SW - Watercourse					05/02/2019 Watercourse (Norman's Brook tributary) is diverted through a culvert. The culvert area is modified with an approx. 1m high waterfall immediately upstream of the culvert. Pipe outfalls from right hand bank but no flow

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							evident
75	392637 215700	SW - Watercourse					05/02/2019 Watercourse (Norman's Brook tributary) downstream of culvert approx. 5cm deep, 1m wide and flowing at 0.012m3/s (0.05*1*0.243=0.01215)
76	392577 215689	SW – Watercourse – cascade of waterfalls					05/02/2019 (11:42) Stepped cascade with tufa evident on steps. Watercourse (Norman's Brook tributary) downstream of cascade is approx. 10cm deep, 1.5m wide and flowing at 0.015m3/s (0.10*1.5*0.1=0.015)
77	392551 215682	SW - Watercourse					05/02/2019 (11:45) Watercourse (Norman's Brook tributary) very clear with tufa present in bed. The stream flow is piped through a wall that crosses the watercourse.
78	392467 215678	Spring					05/02/2019 (11:53) Spring flowing into the watercourse (Norman's Brook tributary) from left hand bank. Approx. 10cm deep, 0.5m wide and flowing at 0.005m3/s (0.10*0.5*0.102=0.0051)
79	392453 215683	SW - Watercourse					05/02/2019 Watercourse (Norman's Brook tributary) downstream of confluence with spring (78). The watercourse is approx. 10cm deep, 0.5m wide and is flowing at 0.01m/s (0.10*0.5*0.194=0.0097)

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
80	392437 215700	Seepage					05/02/2019 (12:02) Seepage/large area of wet ground on right hand bank, discharging to the watercourse (Norman's Brook tributary).
81	392415 215702	Spring					05/02/2019 (12:07) Petrifying spring on right hand bank flowing towards the watercourse (Norman's Brook tributary). Wide, with petrified material present on bed of stream.
82	392240 215755	SW - Watercourse					06/02/2019 (10:02) Watercourse (Norman's Brook tributary), immediately upstream of a culvert under the foot bridge. The watercourse is approx. 1m wide, 10cm deep and is flowing at 0.0396m3/s (1*0.10*0.396=0.0396)
							This location was measured for the tracer test
							19/03/19 (14:30) The watercourse (Norman's Brook tributary) is approx. 1m wide, 10cm deep and is flowing at 0.070m3/s (1*0.10*0.700=0.070)
83	392954 215873	Well					05/02/2019 (13:55) Well immediately adjacent to and joined to a wall. Well is dripping slightly stagnant water is present in the well bowl. A lead pipe is visible, which indicates the spring is possibly piped away.
84	393462 216182	Pond					05/02/2019 (14:17) Dew pond in a depression, water and reeds are visible.

No	NGR	Type (well/borehole/pond/spring/ river/wetland etc)	Abstraction Rate (m3/d)	Diameter of Borehole (mm)	Datum (m)	Depth to rest water level (m) (date)	Water feature description (inc. any access issues)
	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
85	391670 215983	Manhole – culverted watercourse					05/02/2019 (10:20) This manhole was identified by the Environment Agency as being part of the Norman's Brook watercourse. The manhole lid was lifted as part of the tracer test. It was confirmed to be the culverted watercourse (Norman's Brook tributary) directed from Crickley Hill at Fly up (feature 82) Flowing at approx. 0.771m/s – it was not possible to measure water depth or culvert size.
86	391336 216350	SW - Watercourse					06/02/2019 (10:45) Watercourse (Norman's Brook tributary) is approx. 1.5m wide, 12cm deep and flowing at 0.035m3/s (1.5*0.12*0.196=0.03528)
87	390302 219264	SW - Watercourse					07/02/2019 (14:23) Watercourse (Norman's Brook) no access for gauging, flowing with a milky colour
88	389123 220546	SW - Watercourse					07/02/2019 (14:29) Watercourse (Norman's Brook) no access for gauging, flowing with a milky colour
89	395688 216098	SW - Watercourse					20/03/2019 14:26 Watercourse (tributary of River Churn) is approx. 1.0m wide, 8cm deep and flowing at 0.060m3/s (1*0.08*0.744 m/s=0.05952).
90	395060 216183	Seepage					20/03/2019 14:50 Seepage on banks of the watercourse (River Churn tributary) marked by isolated boggy ground with distinct vegetation (identified as possibly dog's mercury).

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
91	394728 216466	Culvert					20/03/2019 15:11 Culvert of watercourse (River Churn tributary headwaters) flowing east under the A417. The watercourse was flow gauged upstream of culvert and is approx. 0.8m wide, 11cm deep, and flowing at 0.040m3/s (0.8*0.11*0.45=0.0396).
92	394734 216462	Outfall – Road Drainage?					20/03/2019 15:12 Outfall (dry) on southern bank of the watercourse (River Churn tributary). Likely discharges road drainage to watercourse, upstream of culvert.
93	394718 216471	Outfall					20/03/2019 15:12 Outfall, discharging from Cotswolds Hills Golf Course and National Star College. The outfall feeds into the watercourse (River Churn tributary) upstream of 91.
94	395752 216089	Watercourse					20/03/2019 15:37 View of the watercourse (River Churn tributary) from top of valley at Downmans Farm.
95	394585 216613	Waste Treatment					21/03/2019 09:46 Waste treatment at Cotswolds Hills Golf Course. Treated effluent is discharges to the watercourse at 93 (River Churn tributary).
96	394620 216551	Catchpit					21/03/2019 09:22 Catchpit that attenuates effluent discharging from the National Start College before is discharges to the watercourse at 93 (River Churn tributary).

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97	394605 216555	Drain					21/03/2019 09:19 Drain that receives water discharging from the National Star College prior to being culverted to a catchpit (feature 96).
98	395076 216821	Lake (proposed)					21/03/2019 09:54  The location of a lake to be constructed at Cotswolds Hills golf course, once planning permission granted. Will be topped up using groundwater from an on-site borehole.
99	392872 214205	Pond					22/03/2019 10:00 A lined ornamental pond at Birdlip House.
G1	392400 215030	Outcrop					16/04/2018 14:45 Solution features (karstic) at outcrop on escarpment slope, indicating potential aquifer characteristics.
G2	392981 215828	Spring					18/04/2018 11:18  Minor spring/seepage at woodside house driveway, which discharges to drain.
G3	393330 215760	Dry Valley					16/04/2018 17:00  Dry valley where map is marked with a spring at top of escarpment. Dry valley goes down to Grove Farm/Crickley Hill Tractors.
G4	394531 214760	Spring collects					16/04/2018 17:34  Spring collects at top of valley at Stockwell Farm. Overflows to watercourse with low flows, downgradient to the north. Culverted at SO945148. Some tufa precipitation on collects where water overflows.
G5	394600 214936	Spring					16/04/2018 17:40 Outfall of culverted spring flows to surface

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							watercourse. Possible collects to the immediate west that likely combines with flows from the watercourse fed by G4. Moderate flow.
G6	394581 214955	Spring					16/04/2018 17:42 Spring that emerges from ground between outfall of spring flows and possible spring collects.
G8	389854 214310	Spring					17/04/2018 10:13 Possible spring collects located at Roman Villa ruins in Great Witcombe, collecting water from escarpment slope to the north. Mapped spring is not found.
<b>G9</b>	389914 214217	Spring					17/04/2018 10:24 Spring emerging from ground to the southeast of Roman Villa. 0.3m wide, 0.05m deep, 0.535 m/s (on gradient). 0.008025m3/s. 07/02/2019 09:07 Heavy rain night before Spring not running
G10	389778 213976	Spring					17/04/2018 10:41 Two large springs forming headwaters of watercourse in valley at Great Witcombe. Springs are well developed, with oolitic limestone exposed. An additional spring emerges from eastern slope approximately 25-30 metres downgradient. 07/02/2019 09:13 Heavy rain night before Spring approx. 0.5m wide, with a depth of

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							5cm deep in the centre and flowing at approximately 0.0061m3/s (0.5x0.05x0.243=0.006075)
G11	389977 213811	Seepage					17/04/2018 11:28
3.1							Seepages from woodland to south of public footpath. Dense vegetation prevents pinpointing seepage points, but some channels present. Continuing down path, marked spring is dry, may emerge downgradient but access not granted.
G13	391625 214425	Seepage					17/04/2018 12:07 Seepage in depression on slope in field, marked by rushes at lowpoint.
	390225 214634	Spring					17/04/2018 12:49
G14							Unmarked spring emerging from side of field. Flows overground and pools before seeping back to ground.
G15	390698 215805	Seepage					17/04/2018 14:29
GIS							Possible seepage in field depression marked by rushes. Not accessed but viewed from public pathway.
G16	390744 215845	Spring					17/04/2018 14:31
310							Spring collects, where spring marked on map. Discharges to drain immediately.
G17	392692 215674	Spring					18/04/2018 11:58
317							Pipe driven into ground in field at Grove Farm to discharge spring flows to brook tributary to the north. Spring is productive, and ground can become extremely boggy so fenced off to keep livestock away.

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
G19	393033 215824	Pond					18/04/2018 11:29  Ornamental pond created by landowner at location of old GI borehole that was not sealed off. Artesian groundwater conditions flows up bore and into pond. Otherwise pond is dry. Borehole was not found.
G20	392809 215699	Spring					18/04/2018 11:41 Springs/seepages arising from ground marked by rushes along northern boundary of field. Low flows trickling to tributary. Land owner suggests not all spring locations are permanent and may pop up anywhere along the northern edge of his field.
G21	392787 215674	Borehole	N/A	50mm	12.82mbgl	2.44mbgl (rest)	18/04/2018 11:55 Ground investigation borehole. Plumbed depth 12.82m bgl. Gw level 2.44m bgl. Difficult to find, requires land owner to point out location.
G23	396587 215314	Watercourse					18/04/2018 14:10 Confluence of spring fed watercourse from the east (access not available), with River Frome. See Feature 51/52.
G24	394260 213317	Seepage					18/04/2018 15:18 Seepages marked by raised ground and rushes. South of Bushley Muzzard SSSI
G25	394250 213383	Spring					18/04/2018 15:20 Bushley Muzzard with distinct vegetation. Spring arises from behind fence in woodland. Watercourse is culverted under public pathways.

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
G26	394268 213223	Seepage					18/04/2018 15:12 Rushes on slope suggest seepages, ground damp.
G27	394435 213103	Well					18/04/2018 15:43 Well and pond viewed from public pathway in private property.
G28	394498 213076	Watercourse					18/04/2018 15:49 seepages (wet ground on slopes of watercourse and distinct vegetation).
G30	394553 213160	Watercourse					18/04/2018 16:06 Watercourse sourced by springs and seepages on private land/roadside culverted underneath road. Flows barely visible due to overgrowth of vegetation. Primary source is spring marked on OS map located on private land (discharge point is photographed).
G31	394422 213171	Watercourse					18/04/2018 16:18 Rushes and wet ground signify seepage area on banks of watercourse.
G32	394347 213139	Spring					18/04/2018 16:21 Unmarked spring on roadside. Flowing down road with low flows.
G33	393922 212692	Well					18/04/2018 16:36 Blocked well/water pump in village centre. Old, likely ornamental.
G35	396349 215487	Seepage					19/04/2018 09:18 River Churn, with multiple springs/seepages flowing down banks into watercourse
G36	396447 215539	Seepage					19/04/2018 09:37

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							Noted by rushes and wet ground up slope of River Churn
G37	396518 215530	Spring					19/04/2018 09:41 Channel on banks of River Churn, possible spring. No flow, but damp ground.
G39	396448 215583	Seepage					19/04/2018 09:52 Seepages in field marked by rushes and extremely boggy and waterlogged ground.
G40	396405 215726	Seepage					19/04/2018 09:55 Seepages in field marked by rushes and wet ground. Spring head rises in north-west corner of field and follows depression towards river. Dry at the springhead location.
G41	396348 215830	Spring					19/04/2018 10:10  Spring in field. Arises from ground where rock is slightly exposed, and flow follows a slight depression down to River Churn.
G42	396325 215932	Seepage					19/04/2018 10:23 Seepage marked by rushes and boggy ground on banks of River Churn.
G43	396275 216001	Well					19/04/2018 10:33 Spring source turned to well in centre of village. Clear water with significant flow.
G44	396492 215938	Seepage					19/04/2018 10:45 Seepages marked by wet ground and rushes on slopes of River Churn tributary
G45	396852 215948	Spring					19/04/2018 10:58 Land marked with spring at Rookery. Not accessible, photo taken from public

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							pathway nearby. Spring flows likely follow
							channel.
G46	396660 215737	Seepage					19/04/2018 11:11
							Seepages in field marked by rushes and wet
	005077.045044						ground. Rushes not clear in photo.
G47	395977 215944	Spring					19/04/2018 11:39
							Springs located on close farm. Old, derelict
							pump house on side of road.
							20/03/2019 17:33
							Upstream of pump house on property
							0.84m wide, 0.1m deep, 0.239 m/s.
							0.0201 m3/s.
G48	395902 216054	Weir					19/04/2018 11:50
							Weir controlling flows at Dowman's Farm.
							Viewed from public pathway as no access.
							Rushes on banks of river.
G49	396129 215950	Spring					19/04/2018 11:59
							Multiple springs at Close Farm as viewed
							from road (no access). Flows to
							watercourse/pond.
							20/03/2019 17:40
							2.0m wide, 0.06m wide, 0.348 m/s
	000007.044050						0.0418m3/s
G50	396927 214256	Watercourse					19/04/2018 13:18
CF4	396961 214219	Coordon					River Churn culverted under road.
G51	390901 214219	Seepage					19/04/2018 13:08
CER	396588 214011	Matanagama					Seepages/wetland on banks of River Churn
G52	S90500 ∠14011	Watercourse					19/04/2018 13:27

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							Tributary of the River Churn in Cowley
							Wood. Steep slope so not accessible.
G53	396571 213979	Seepage					19/04/2018 13:30
							Rushes and wet ground in Cowley wood
							suggest seepages from slope towards
							tributary of River Churn.
G54	396251 213918	Spring					19/04/2018 13:38
							Springs from north and south slopes in
							Cowley wood with low flows to heavily
							modified/manmade lake. Video only. Lake is
							culverted to tributary of River Churn.
G55	396768 214212	Seepage					19/04/2018 14:50
							Rushes on slopes of River Churn tributary.
G56	396723 214239	Spring					19/04/2018 14:49
							Unmarked spring on roadside. Flowing to
							tributary of River Churn.
G57	392085 215651	Watercourse					29/05/2018 14:14
							Watercourse with pools of standing water,
							no flow. Source is culvert upgradient. Likely
							land/spring drainage.
G58	392207 215510	Watercourse					29/05/2018 14:39
							Confluence of two streams/drainage
							ditches culverted under pathway/road.
							Shallow, with very low flow.
G59	392158 215448	Seepage					29/05/2018 14:42
							Rushes and channel mark seepage
G60	392158 215447	Seepage					29/05/2018 14:47
							Flows managed by ditches and culverted
							under bike track. Exact source(s) not
							identified due to overgrowth.

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
G61	392199 215379	Seepage					29/05/2018 14:54 Flows managed by ditches and culverted under bike track. Exact source(s) not identified due to overgrowth.
G62	392292 215375	Seepage					29/05/2018 15:04 Rushes mark area of seepage.
G63	392326 215226	Seepage					29/05/2018 15:10 Rushes mark area of seepage.
G64	392374 215239	Seepage					29/05/2018 15:13 Spring/seepage with very low flows over road. Rushes to north.
G65	392435 215277	Spring					29/05/2018 15:19 Piped spring/land drainage. Flows into wooded area
G66	392550 215250	Seepage					29/05/2018 15:26 Rushes as viewed from bike track. Not accessible.
G67	392488 215361	Seepage					29/05/2018 15:31 Patch of rush on slope. Watercourse flows north in wooded area.
G68	392491 215408	Spring					29/05/2018 15:36 Spring marked by tree. No noticeable flow, but sodden ground. Culverted under bike track.
G69	392531 215442	Watercourse					29/05/2018 15:40 Spring-fed watercourse, covered by dense vegetation behind fence.
G70	392486 215489	Watercourse					29/05/2018 15:54 Spring fed watercourse (unmarked), culverted underneath bike track. Flows to

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							feature G69.
G71	392485 215639	Watercourse					29/05/2018 15:58 Spring fed watercourse, downstream of G69. Flows over track.
G72	392313 215708	Watercourse					29/05/2018 16:05 Culverted under track.
G73	392618 215258	Spring					29/05/2018 17:29 Spring feeding trough. Overflows to watercourse.
G74	393050 215693	Spring (abstracted for domestic use)	Unknown, gravity fed	N/A	N/A	N/A	29/05/2018 17:44 Piped, owner states that is always flowing. Fills trough and is culverted downstream underneath properties to discharge to Norman's Brook tributary. Gravity flows supply Grove Farm property and Crickley Hill Tractors directly from spring.
G75	393804 214392	Spring					30/05/2018 10:35 Confluence of flows (marked as springs) in fenced, wooded area. Overflows to trough. Not directly accessible due to fence and overgrowth.
G77	394674 215046	Watercourse					30/05/2018 11:49 Downstream of features G5/G6. Low flows, channel appears to stop. HADDMS marks culvert but not visible due to overgrowth. Possibly seeps back to ground.
G78	396193 215351	Watercourse					30/05/2018 12:15 Coldwell Bottom. Moderate flows, suggesting flowing springs between G78 and G77.

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
G79	394401 213651	Culvert					30/05/2018 13:57 Culvert with moderate flows exposed in middle of field. Road drainage and flows from Stockwell Farm. Discharges south as headwaters of River Frome.
G80	394401 213553	Culvert					30/05/2018 13:59 Collection of discharges from north and east, with moderate flows into pool, that continues to flow south towards River Frome.
G81	394469 213554	Watercourse					30/05/2018 14:08 Water flowing overland, arising from private field at Watercombe Farm. Moderate flows to culvert that discharges to G80. Marked as spring source on OS.
G82	394348 213216	Abstraction					30/05/2018 14:26 Abstraction from spring/well marked by windmill. Informed of use by Local Council. Requires discussion with landowner re uses, volumes etc.
G83	394220 213256	Seepage					30/05/2018 14:32 Puddled water, interpreted as seepage from slopes to south/upward leakage from aquifer.
G84	393929 213193	Spring					30/05/2018 14:45 Spring flowing from overgrowth behind barbed fence. Flows to ground and seeps back to ground.
G85	393893 213299	Seepage					30/05/2018 14:53 Seepage area marked by rushes and boggy

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							ground.
G86	393909 213324	Spring					30/05/2018 14:55 Springs and seepage collects into pond, possibly used for livestock. Slight flows into collect from wooded area/down gradient of G85.
G87	393901 213376 213376	Watercourse					30/05/2018 14:58 Watercourse/land drain collecting overflows from G86 and flows from the west. Flows east through field to Watercombe Farm/Bushley Muzzard.
G88	393793 213394	Watercourse					30/05/2018 15:02 Ponded water that is source of flows west of G87. Marked as spring flows from north, but not accessible at time of visit.
G89	393401 213495	Well					30/05/2018 15:17 Broken well/collects, overflowing to south. Source from north on private land which is not yet accessible.
G90	393620 213386	Seepage					30/05/2018 15:25 Seepage area marked by rushes, viewed from public right of way.
G91	392283 214111	Spring					30/05/2018 16:34 Spring at Bittom Barn, which flows into manmade pond. Used to control flow and turned into a feature. No visible flows. Not accessible as fenced off by owner.
G92	392728 214153	Pond					30/05/2018 16:48 Pond, unlikely groundwater fed (dew pond). Viewed from public footpath.

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
G93	390665 215897	Spring					31/05/2018 10:03 Managed springs, discharging to watercourse that flows south of Springfields Farm. Moderate flows, landowner claims spring is always running.
G94	391023 215401	Spring					31/05/2018 10:41 Springs/seepages that discharge north to watercourse, and then west to Little Witcombe.
G95	394457 216747	Spring					31/05/2018 11:21 Spring that is controlled by land manager and discharged to lake at National Star College.
G96	394453 216675	Discharge point					31/05/2018 11:26 Discharge of overflow from lake and effluent. Monitoring boreholes are located onsite but no access agreed with landowner, who said we would need to contact contractor (geotechnics?). Boreholes were drilled in relation to pollution event from effluent.
G97	394199 216597	Spring					31/05/2018 11:31 Spring that flows to land drain underground. Unclear where it flows to, land manager unsure.
G98	394148 216533	Pond					31/05/2018 11:32 Spring-fed pond, made into an ornamental water feature. Land manager notes some significant historical flooding.
G99	394122 216533	Spring					31/05/2018 11:37

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							Spring that feeds G98. Rises from ground, flooded but not visibly flowing. Land manager has mentioned moderate flooding events from this spring/G98 over the years (could not specify dates).
G100	394493 213553	Spring					23/07/2018 14:17 Spring relating to flows at G81, arising from behind barbed fence. Flowing moderately.
G101	394364 213326	Spring					23/07/2018 14:41 Spring, possible overflow from G82. Piped, and flows south to watercourse, tributary of River Frome.
G102	394322 213432	Spring					23/07/2018 14:33 Spring, not visibly flowing but wet ground and rushes present in depression.
G103	394378 213388	Watercourse					23/07/2018 14:36 Confluence of spring flow from G102 to watercourse flowing south, tributary of River Frome. No visible flow from G102 but ground is boggy.
G104	394277 213308	Spring					23/07/2018 14:58 Spring flow and seepage (with rushes), downstream of G25.
G105	394287 213264	Spring					23/07/2018 15:00  Downstream of G104, flows emerging from ground, where flows upgradient seep back into ground. Flows to confluence with stream that flows west - east through Watercombe Farm/Bushley Muzzard. Very low flow.

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
G106	394320 213249	Culvert					23/07/2018 15:02 Culverted flows from watercourse flowing west - east through Watercombe Farm/Bushley Muzzard (G107). No visible flow out of pipe, suggesting most water seeps back to ground during low flows.
G108	394289 213253	Watercourse					23/07/2018 15:14 Confluence of spring flows from north (Bushley Muzzard) and west (G107). No flows from west, low flows from north.
G109	394358 213242	Watercourse					23/07/2018 15:17 Dry watercourse, with some boggy ground, downstream of G108 and G106. Watercourse is marked by rushes. Flows into pond in wooded area in SE corner of field.
G110	394367 213166	Seepage					23/07/2018 15:20 Seepage area on slope, marked by change in vegetation and slightly damp ground.
G111	394392 213186	Pond					23/07/2018 15:21 Overflow from pond, which is hidden in trees. Overflow shows signs of tufa precipitation.
G112	394457 212566	Seepage					25/07/2018 10:48 Seepage area marked by rushes in field. Rushes are in centre of the screen. Watercourse is dry (bottom of screen).
G113	394437 212704	Spring					25/07/2018 10:57 Spring noted by ground depression with rushes. Dry at time of visit, flowing

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							downslope to dry watercourse that overflows from ponds to the south west (G114) and flows to east towards River Frome.
G114	394402 212615	Pond					25/07/2018 11:00 Tiered ponds. Source not found due to overgrowth, marked on map as arising from different land parcel that would require additional land access. Pond levels low and thus not overflowing to watercourse towards River Frome.
G115	391449 216823	Well					25/07/2018 13:17 Feature not found. Possible horsetail/scouring and common rushes where located, likely from seepage.
G116	391588 216510	Spring					25/07/2018 13:38 Possible spring, dry, marked by rush and cracked ground. Patches continue along public path to north-east
G117	391658 216494	Lake					25/07/2018 13:42 Dry feature marked by significant depression filled with rushes. Possibly spring fed and dry during summer.
G118	391770 216650	Watercourse					25/07/2018 13:58 Culverted, dry. Likely drains springs towards brook to the west.
G119	392022 216692	Watercourse					25/07/2018 14:05 Watercourse, possibly spring fed. No flow, but damp ground with standing water. Marked as spring fed from springs arising

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							on the escarpment to the east.
G120	392124 216751	Watercourse					25/07/2018 14:07 Watercourse/land drain, collecting seepage to south-east (G121) and flows from north. Flows to G119.
G121	392173 216716	Seepage					25/07/2018 14:09 Seepage marked by rushes on slope. Photographed from public path with no direct access.
G122	392360 216788	Watercourse					25/07/2018 14:13 Culverted underneath property. No flow, with some standing water. Mostly dry. Marked as receiving water from springs arising from escarpment to SE.
G123	392444 216665	Watercourse					25/07/2018 14:16 Low flows, upstream of G122. Seeps back to ground (mostly overgrown between localities so not clear where seepage occurs).
G124	392430 216592	Spring					25/07/2018 14:22 Dry feature where marked as watercourse on map. Possible spring feeding into watercourse.
	392425 216577	Seepage					25/07/2018 14:29 Seepage marked by rushes on slope, slightly to the south of G124.
	393319 213572	Pond					27/07/2018 10:53 Pond, dry, which overflows south to well. Heavily overgrown, with barbed fence.
G128	394503 215650	Pond					24/07/2018 14:41

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							Pond, likely a dew pond. Well on land not found, nor known to owner.
G129	394330 213695	Well					23/07/2018 16:45 Well in garden of Golden Heart Inn. No water visible when peering over top. Possibly sealed/ornamental, owner not present.
G130	391413 214358	Watercourse					26/07/2018 14:54 Dry watercourse/seepage area, which flows to south behind barbed fence and joining marked watercourse to south (on private land).
G131	391596 214262	Seepage					26/07/2018 15:02 Seepage from woodland, marked by boggy ground.
G132	391660 214139	Seepage					26/07/2018 15:10 Seepage, possible spring from woodland, which flows to watercourse (G133) which continues south.
							07/02/2019 10:01 heavy rain night before. Spring approx. 2cm deep in the centre and flowing. Not enough to gauge.
G134	392825 213976	Spring					26/07/2018 15:30 Not found, and not known to owner. Considered a spurious feature. No Photo.
G135	394836 215011	Spring					18/03/2019 14:27 Spring feeding pond. Spring is piped, and pond seeps to ground. Some slight tufa

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							deposition in pond.
G136	395016 215203	Well					18/03/2019 14:38
							Old well and collects. Disused.
G137	395600 215505	Seepage					18/03/2019 14:54
							Seepage noted by rushes on northern slope
							of Coldwell Bottom. Spot mapped as access
							to land not permitted.
G138	395828 215351	Pond					18/03/2019 15:03
							Pond parallel to Coldwell Bottom. Possibly
							groundwater fed. Spot mapped as access to
							land not permitted.
G139	395800 215359	Seepage					18/03/2019 15:00
							Possible seepage, noted by semi-circular
							ground depression on southern bank of
							Coldwell Bottom.
G140	396175 215336	Seepage					18/03/2019 15:12
							Area of seepage and confluence with spring
							flows to Coldwell Bottom. Spot mapped as
							access to land not permitted.
G141	396124 215367	Spring					18/03/2019 15:13
							Spring, with decent flow, on northern slope
							of Coldwell Bottom. Spot mapped as access
							to land not permitted.
G142	393422 214659	Spring					18/03/2019 16:20
							Spring/seepage/land drain, piped with low
							flow, that disappears into possible sinkhole
							in middle of ground depression. At contact
							between fuller's earth and inferior oolite.
							Depression also receives water from
							road/field drain from the west (dry) and

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							overflow from pond to the east when water level is high.
G143	394335 213983	Seepage					18/03/2019 17:03 Possible seepage in alluvial valley, as noted by solution features/slope failure on slopes possibly related to groundwater.
G144	395102 214277	Pond					18/03/2019 17:38  Pond, likely surface water but origin is unclear.
G145	394569 215149	Seepage					19/03/2019 09:42 Raised ground with some rushes. Possibly related to seepages or slope runoff.
G146	393893 215250	Seepage					19/03/2019 10:30 Raised ground and rushes at Shab Hill. Possible seepage on slopes, may be related to slope runoff.
G147	394505 213923	Spring					19/03/11:54 Spring piped with low flow from fence line with adjacent field. Water seeps back to ground.
G148	394488 213832	Spring					19/03/2019 11:56 Spring marked by tree. No noticeable flow, but sodden ground. Seeps back to ground.
G149	394364 213728	Outfall					19/03/2019 12:04 Large outfall driven in to alluvium at base of valley. Moderate flows, draining the alluvium that likely receives water from runoff, seepages and springs exposed in valley, and possibly upwelling from aquifer. May also drain surface water from farm

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							area.
G150	394442 213978	Seepage					19/03/2019 12:10 Possible seepage in alluvial valley, as noted by solution features/slope failure on slopes possibly related to groundwater.
G151	392613 215685	Seepage					19/03/2019 16:51 Seepage on banks of Normans Brook tributary, marked by boggy ground and distinct vegetation.
G152	392616 215649	Spring					19/03/2019 16:58 Spring in corner of field marked by trees, with roots exposed. Very low flow with heavily saturated ground. Flows over land and seeps back to ground. Seepage marked by rushes on slope. Blue pipe driven into ground may tap into water to supply troughs at Hill Farm
G153	392192 215178	Seepage					20/03/2019 10:16 Rushes and damp ground suggest seepages on escarpment slope. Blue pipe disappearing into ground map tap water supply for nearby troughs.
G154	392145 215233	Spring					20/03/2019 10:28 Spring with low flow by tree on slope. Seeps back to ground.
	392060 215237	Seepage					20/03/2019 10:31 Seepage point on slope at Hill Farm.
G156	391725 215483	Seepage					20/03/2019 11:51 Seepage point at bottom of escarpment slope, marked by damp ground and change

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							of vegetation to dog's mercury.
G157	395392 216140	Spring					20/03/2019 14:35
							Spring on southern slope of River Churn
							tributary valley. Spring is possibly tapped to
							feed trough on northern slope by blue pipe.
							Damp ground and ponding on slope.
G159	395014 216162	Spring					20/03/2019 14:56
							Spring in Clerk's patch, low flow. Flows
							north to join River Churn.
G160	392145 216502	Spring					21/03/2019 14:16
							Spring (dry) at Oakland Farm. Owner stated
							spring is mapped in wrong place, and rarely
							flows in recent times.
G161	392212 216518	Spring					21/03/2019 14:20
							Spring (piped, but dry and disused). Owner
							stated flows had ceased a long time ago and
							no water from pipe.
G162	392292 216492	Spring					21/03/2019 14:39
							Spring feeding watercourse on escarpment
							slope, flowing north-west. Low flow.
G163	392258 216410	Spring					21/03/2019 14:47
							Two well developed springs with low flow.
							Western spring has broken pipe. Both flows
							seep back to ground several metres
							downgradient.
G164	391646 216064	Spring					21/03/2019 16:24
							Spring that feeds into drainage channel.
							Used to supply house (owner now on
							mains). Water feeds into Norman's brook
							trib. No flow, but damp ground.

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
G166	394739 215102	Abstraction					18/03/2019 14:14 Possible groundwater abstraction that feeds troughs in area by blue pipe.
G167	395434 215467	Outfall					18/03/2019 14:47 Spring collects forming the headwaters of Coldwell Bottom. Outfall is dry, but water seeps several metres downstream of the outfall in watercourse.
G168	395487 215483	Seepage					18/03/2019 14:49 Seepage several metres downstream of dry outfall at Coldwell Bottom. Gradual seepage.
G169	395580 215499	Watercourse					18/03/2019 14:50 Seepages built to a noticeable flow in Coldwell Bottom.
G170	395677 215464	Pond					18/03/2019 14:58  Pond immediately to the north of Coldwell Bottom watercourse, likely groundwater fed. No direct access and access not permitted by landowner.
G171	395679 215447	Culvert					18/03/2019 14:58 Culvert under path Coldwell Bottom. Culvert is dry as watercourse levels low and fed by groundwater seepages.
G173	394488 214704	Abstraction					18/03/2019 15:50 Possible abstraction used for feeding troughs by blue pipe. Likely intercepts shallow flows over fullers earth.
G174	394456 214673	Seepage					18/03/2019 15:56 Waterlogged ground in proximity of

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							mapped spring. Likely seepage settling on fullers earth.
G175	393464 214711	Flooded ground					18/03/2019 16:15 Waterlogged field in topographical low point. Possibly sourced from groundwater seepages and surface water runoff.
G176	393451 214647	Pond					18/03/2019 16:17 Pond, possibly partially fed by groundwater seepage and surface water runoff. Bunded, with an overflow point to divert flows to the west during high water.
G177	393424 214641	Spring					18/03/2019 16:20 Piped spring, broken, with low flows. Flows north to swallow hole at G142. Possibly drains field to south of shallow groundwater flows and surface runoff.
G178	393136 214598	Drain					18/03/2019 16:32 Field drain (dry) which diverts flows east to G142. Likely also receives water from road drainage in the west as culverted from behind fenced off woodland (not accessed due to barbed fencing).
G179	394227 215244	Seepage					19/03/2019 09:05 Seepage occurring along a line in woodland south of Rushwood Kennels. Seepage can be significant, and completely waterlog land preventing vehicular access.
G180	394325 215215	Seepage					19/03/2019 09:06 Continuing along line from G179, seepage occurring along a line in woodland south of

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							Rushwood Kennels. Seepage can be significant, and completely waterlog land preventing vehicular access.
G181	394354 215207	Spring					19/03/2019 09:08 Continuing along line from G179, area where significant seepage has been turned into a water collects. Owner states feature is likely ~100 years old. Low flows seep back into ground further downgradient.
G182	394821 215169	Seepage					19/03/2019 09:45 Possible seepage marked by rushes in grassland. Possibly due to runoff.
G183	393764 215103	Dry Valley					19/03/2019 10:35  Dry valley at Shab Hill. Surface water flooding is likely topographically related.
G184	393962 215255	Dry Valley					19/03/2019 10:54 Incised dry channel in Shab Hill valley, possibly due to minor seepage and surface water runoff.
G185	391842 215638	Watercourse					20/03/2019 09:23 Spring fed watercourse (marked as drain on map). Shallow water with no flow.
G186	391954 215421	Spring					20/03/2019 09:47 Spring marked by tree in woodland. Flows into watercourse onto Fly Up land and to G185. Very low flow, mostly damp ground in incised channel.
G187	392142 215254	Spring					20/03/2019 10:01 Spring feeding into pond. Very low flow.
G188	392016 215167	Spring					20/03/2019 10:41

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							Dry, but well developed head of spring. Water seeps in downgradient.
G189	391959 215175	Spring					20/03/2019 10:43 Re-emergence of spring flows from G188, seeping back to ground after a few metres.
G190	391871 215201	Spring					20/03/2019 10:50 Re-emergence of spring flows from G189, seeping back to ground after a few metres and continuing to re-emergence where ground has collapsed by tree roots.
G191	391828 215204	Spring					20/03/2019 10:57 Re-emergence of spring flows, piped.
G192	391754 215198	Spring					20/03/2019 11:08 Two pipes driven into slope, low piper has flow (bucket test undertaken). Upper pipe is dry. Bucket test results
							0.00021m3/s 0.00022m3/s 0.00022m3/s
G193	391679 215228	Spring					20/03/2019 11:20 Pond in collapsed ground, continuing downgradient from G188 - G192. Flows to continuous watercourse downstream, as marked on map.
G194	391646 215257	Watercourse					20/03/2019 11:25 Spring fed watercourse, downstream of G193. Low flows.
G195	391417 215491	Spring					20/03/2019 11:33

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							Spring exposed in field at bottom of escarpment. Flows pool and seep back to ground after several metres. Seepage and waterlogged ground upgradient to G195.
G196	391455 215440	Seepage					20/03/2019 11:37 Seepage and waterlogged ground upgradient to G195.
G197	391620 215383	Spring					20/03/2019 11:44 Piped spring flows, discharging to field drain that runs along field/woodland boundary. Spring is damp with no flow.
G198	391752 215814	Seepage					20/03/2019 11:57 Ponded water, initially interpreted as pooled surface runoff but after viewing nearby features this was reviewed and may be seepage from groundwater.
G199	393355 215723	Well					20/03/2019 13:34 Well, historically used for emergency supply. Disused.
G200	395643 216081	Seepage					20/03/2019 14:20 Damp and waterlogged ground on slope south of river churn tributary.
G201	395263 216173	Seepage					20/03/2019 14:44 Waterlogged ground on slope north of river churn tributary.
G202	395053 216186	Watercourse					20/03/2019 14:52 Confluence of spring flows from Clerk's Patch to tributary of River Churn
G203	394688 216493	Seepage					20/03/2019 15:13

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							Seepages in field between catchpit at golf course to the north and outfall to southeast. Seepages marked by patches of rush. May be tapped by owner to supply troughs (owner not present at time of visit).
G204	396455 215631	Seepage					20/03/2019 16:27 Seepage on path to west of River Churn, marked by boggy ground. No noticeable flow.
	395201 216519	Borehole	Pump depth 64mbgl	3 inch	150m deep	30mbgl (rest). Not currently in use.	21/03/2019 09:35 Borehole, 150m deep with water level approx 30mbgl. Pump is 60 mbgl. Not currently used but plans to use for top up water when plans to construct lake go ahead. Spring/well turned into ornamental water feature at Fernbank garden. No flow.
G206	392857 215799	Spring					21/03/2019 12:48 Spring/well turned into ornamental water feature at Fernbank garden. No flow.
G207	391135 215999	Spring					21/03/2019 13:08 Spring, with low flow onto pavement adjacent to NB A417.
	392254 216546	Watercourse					21/03/2019 14:24 Spring fed watercourse with low flow.
	392347 216435	Spring					21/03/2019 14:44 Spring with low flows that seep back into ground almost immediately.
G210	392302 216413	Spring					21/03/2019 14:46 Spring with low flows that seep back into

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							ground almost immediately.
G211	392284 216346	Spring					21/03/2019 14:52 Spring with low flows that seep back into ground almost immediately.
G212	392334 216315	Pond					21/03/2019 14:55 Spring fed pond with waterlogged ground immediately downgradient.
G213	392008 216418	Well					21/03/2019 15:08 Well, disused, but likely still contains water.
G214	392516 216429	Watercourse					21/03/2019 17:06 Watercourse, which owner confirmed is spring fed (access denied by neighbour). Low flows
G215	392522 216436	Borehole					21/03/2019 17:06 Disused borehole used by previous owners. No longer accessible.
G216	392511 216461	Abstraction					21/03/2019 17:07 Spring abstraction at Journey's End. Flows into a collection chamber and is fed to house by gravity.
G217	392514 216462	Spring					21/03/2019 17:08  Spring with low flows rising in middle of garden at journey's end. Outfalls to roadside to north and flows to drain
G218	392592 216523	Abstraction					21/03/2019 17:11 Abstraction directly from spring that feeds Greenfields Farm. Spring fed watercourse surrounded by seepages. Low flows
G219	394490 213493	Spring					22/03/2019 09:11 Spring feeding into gravel catchpit and

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
							culverted under field.
G220	394436 213485	Outfall					22/03/2019 09:12 Outfall of culverted spring and seepages at G219/G221. Flows to watercourses forming headwaters of River Frome.
G221	394489 213518	Seepage					22/03/2019 09:13 Seepages collect in perforated pipe and join culverted spring flows before discharging at G220.
G222	394559 213180	Spring					22/03/2019 09:36 Spring with low flows. Flows to the south and culverted to road at G30.
G223	394620 213205	Drain					22/03/2019 09:38  Drain that receives run-off from farm area and some seepage from slopes to the north, although rarely
G224	393239 214114	Well					22/03/2019 10:32 Well, disused and partially infilled. Water may seep from well into patch in front garden, as discussed with landowner.
G225	393221 214119	Seepage					22/03/2019 10:35 Seepage, possible arising from blocked well to the east.
	393292 214141	Seepage					22/03/2019 10:37 Area of minor seepage. Ground slightly damp, but owner noted that it can get waterlogged.
G227	392641 214870	Pond					22/03/2019 11:25  Dew pond which rarely contains water according to owner.

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	Licence Ref	Use (Agricultural/drinking water/industrial etc	Pump Suction Depth (m)	Dip Tube installed (Y/N)	Depth of Borehole (m)	Depth to pumped water level (m)	
G228	392518 216469	Outfall					21/03/2018 17:30 Outfall draining springs arising in garden at journey's end. Culverted under road.
G229	393880 215324	Septic Tank					21/03/2019 12:00 Possible septic tank at Birdlip Radio Station.
G230	393090 215920	Septic Tank					27/03/2019 17:00 Septic tank located at Woodside House, likely leading to feature 1.
G231	392839 215713	Spring					18/04/2018 Head of spring that rises in field and flows west to feature 69, where abundant tufa is precipitated.

Water Feature Survey photos (Part 1 of 2)



1\_looking SE\_160418



 $5\_at\ conf\ looking\ SE\_070219$ 



2\_looking SW DS\_160418



6\_looking SW from conf\_170418



7\_looking W DS\_070219



9\_looking E\_170418



8\_looking US in a SE direction\_170418



10\_viewed from 6\_170418



11\_looking US in W direction\_170418



13\_looking W US\_170418



12\_looking W US\_170418



14\_looking W US from bridge\_170418



15\_looking W\_170418



18\_looking E 16 & 17 confluence\_180418



16\_looking looking NW DS\_180418



17\_looking E US\_180418



19\_looking W DS to culvert under the house\_180418



21\_looking N\_070219



20\_DS extent looking E\_180418



22\_looking W at weir between upper and middle pond\_180418



23\_looking W upper pond showing feeder stream to the right\_180418



25\_looking W US of culvert to gauging location\_180418

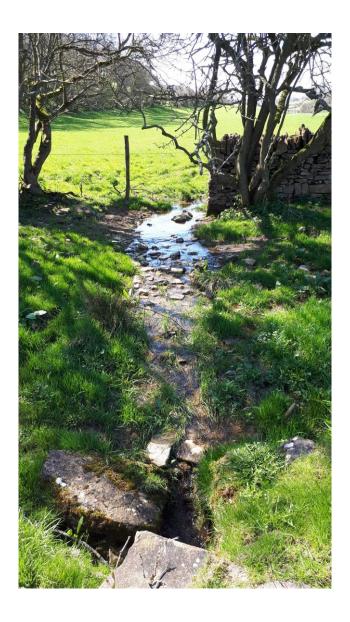


24\_R bank looking W at L bank and conf with 25\_180418



26\_looking N upstream towards cascades\_180418







27\_Looking NW US\_180418 29\_looking W US\_180418

30\_looking DS\_070219



31\_looking SW towards its conf with 26\_180418



32\_looking SW DS\_070219



33\_looking SE US extent of 31 where it is culverted under the road\_180418



34\_looking W\_180418







36\_Looking E DS\_190418



37\_Looking S DS towards the confluence trib 36 on R bank\_190418



38\_Looking E towards the confluence with 38 to the left and 37 to the right\_190418



39\_gauging location looking W US\_190418



41\_looking SW at STW\_190418



40\_US extent outfall looking SE DS of outfall showing conf with 39\_190418



42\_looking N US showing pooling and break of R bank\_190418



43\_looking N US breaking watercourse banks\_190418



44\_looking NW from the top of the valley\_190418



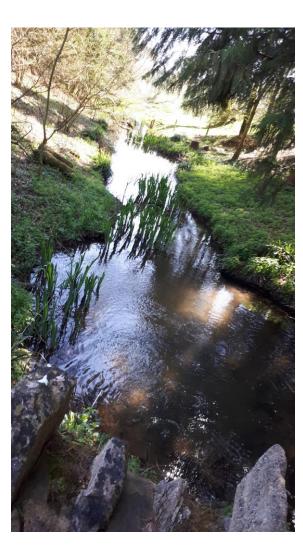
45\_ looking SE outfall into area marked as pond on OS maps



46\_looking NE shows culvert\_190418



46\_looking W DS of right outfall\_190418



47\_looking E at bridge DS\_190418



48\_49\_conf looking NW\_040218



49\_spring at road culvert looking NE towards conf with 48\_190418



50\_looking S DS\_190418



52\_looking SE DS\_070219



52\_looking N towards 51\_070219



53\_looking S further DS\_070219



54\_looking S DS\_070219



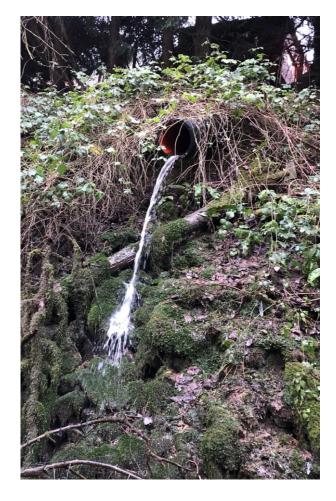
60\_looking SE\_160418



58\_looking SE\_050219



59\_looking SE\_050219



61\_lookingSE\_050219



64\_looking SE DS\_050219



62\_looking SE\_050219



63\_looking NW DS to 63 from 61\_050219



65\_looking E US\_050219



67\_looking N US towards outfall\_050219



 $66\_looking~S~R~bank~to~L~bank\_050219$ 



68\_looking SW DS\_050219



69\_looking NW to conf\_050219



71\_looking SE US\_050219



70\_looking W DS\_050219



72\_looking S US\_050219



73\_DS extent\_050219



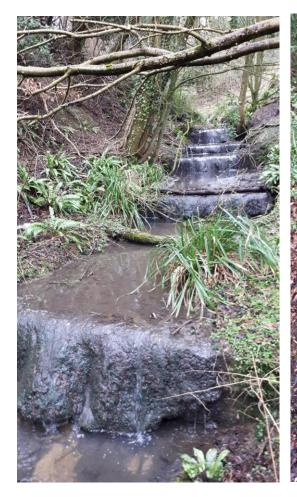
74\_looking NE US\_050219



74\_looking N at pipe on R bank\_050219



75\_looking W DS\_050219









79\_looking N at conf with 78\_050219

76\_looking E US\_050219

77\_looking W DS\_050219

78\_looking NW DS at 79\_050219



80\_seepage looking N\_050219



82\_looking W DS\_060218



81\_tufa spring seepage looking NW\_050219



83\_looking N\_050219



84\_Looking N\_050219



86\_looking N\_050219



85\_looking S\_060219



87\_looking SE US\_070219



88\_looking E US\_070219



90\_Looking W US of watercourse\_seepage on banks of River Churn tributary marked by dogs mercury



89\_ Looking E DS



91\_culverted flows of churn tributary headwaters\_looking S DS



92\_looking N US of 91\_outfall likely from road drainage



93\_looking US of culvert and outfall, showing outfall of flows from golf course, college and seepages



93\_looking NW US at outfall from golf course and college



94\_Looking S towards River Churn tributary



95\_waste treatment at golf course



97\_looking E US at outfall from national star college



96\_looking SE catchpit of flows from NSC



98\_location of proposed lake approved for construction



99\_lined pond



G3\_dry valley where spring marked on OS map\_looking W



G2\_Spring at start of drive of Woodside House\_looking E



G1\_Solution features on Imst outcrop barrow wake



G4\_spring collects\_looking NE



G5\_spring culvert discharge\_looking NW



G6\_spring\_facing SW



G8\_possible spring collects or well Facing WNW



G9\_spring with tufa facing WNW



G11\_possible seepages onto pathway no spring visible in valley where marked on OS Facing S



G10\_Looking US\_170418



G13\_rushes in depression in field Facing E



G14\_spring flow in field facing ENE



G15\_rushes in field viewed from path Facing W



G16\_piped spring facing E



G17\_fenced off spring in field facing E



G19\_pond with old GI borehole not found facing WSW



G21\_old GI borehole in field facing S



G20\_rushes in field facing S



G23\_confluence of River Frome and spring fed trib facing E



G24\_seepage on slope at Bushley Muzzard facing S



G25\_Bushley Muzzard facing N



G25\_springs at Bushley Muzzard facing N\_230718



G26\_minor seepage on slope facing S



G27\_well at Ivy Cottage facing N



G28\_seepage on banks of River Frome trib



G30\_piped spring flow from Watercombe Farm



G31\_seepage on banks of River Frome trib



G32\_spring on roadside facing E



G35\_seepage on banks of River Churn trib facing N



G33\_blocked well likely ornamental facing W



G36\_seepage on banks of River Churn trib facing W



G37\_seepage on banks of River Churn trib facing S



G40\_seepage upgradient of River Churn trib starts facing N



 ${\tt G39\_seepage\ upgradient\ of\ River\ Churn\ trib\ starts\ facing\ S}$ 



 ${\sf G41\_spring\ upgradient\ of\ River\ Churn\ trib\ starts\ facing\ W}$ 



G42\_seepage on banks of River Churn trib facing N E



G44\_seepage on banks of River Churn trib facing N E



G43\_well in Coberley facing E



G45\_spring as viewed from public access land facing W



G46\_seepage in field facing S



G48\_weir and seepage slopes facing S



G47\_spring fed flow and pump house facing E



G49\_springs and seepage as viewed from road facing S



G50\_River Churn culverted under road facing NW



G52\_trib of River Churn viewed from path facing N



G51\_River Churn facing S



G53\_rushes in woodland facing S



G54\_spring fed lake that feeds trib of River Churn starts facing SW



G56\_spring facing SE



G55\_rushes on slope facing SW



G57\_watercourse facing N E



G58\_spring fed watercourse culverted under road facing S



G59\_rushes and seepage facing S



G60\_seepages on slope facing S



G61\_seepage on slope facing S



G63\_rushes facing S



G62\_seepage on slope facing S



G64\_spring facing N



G65\_piped spring facing S



G66\_rushes as viewed from path facing SE



G69\_overgrown watercourse facing E



G67\_hidden watercourse and seepage patches on slope facing E



G68\_spring marked by tree facing W



G70\_rushes on slope starts facing W



G71\_watercourse flowing to Norman's Brook flowing over path facing SE



G72\_watercourse flowing under path to Norman's Brook facing N



G73\_spring that feeds trough and overflows N to watercourse facing SW



G75\_spring fed watercourse and pond facing N



G78\_Coldwell Bottom facing W



G77\_watercourse seeps to ground marked as culvert but overgrown so not proved facing N W



G79\_culvert exposed in ground flowing S possible road drainage



G80\_flow confluence through culverts facing W



G83\_standing water, possibly from seepage facing W



G81-spring flowing over ground facing S



G82\_abstraction at Watercombe Farm facing W



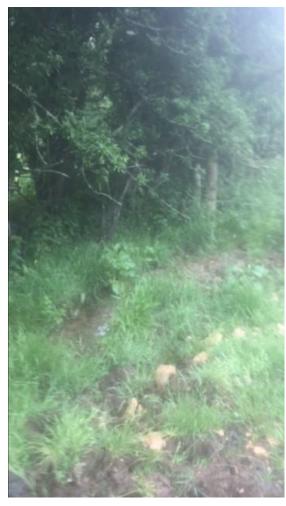
G84\_marked spring facing S



G85\_rushes on slope and boggy ground facing W



G86\_spring collects flowing N facing E



G87\_drain facing N

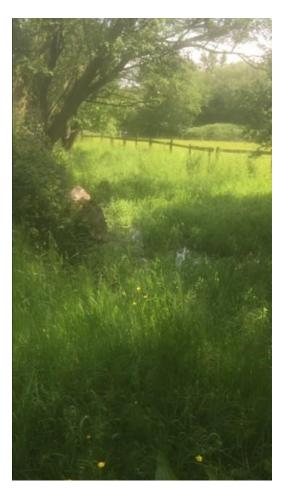




G92\_pond facing S



G93\_spring collects



G94\_spring facing N



G95\_spring managed by college, discharged to lake



G96\_lake and effluent discharge



G99\_spring facing W



G97\_spring drain underneath property



G98\_spring fed pond facing W









G100\_spring facing N

G101\_piped spring facing W

G102\_spring facing N W

G103\_spring issues facing N W



G104\_rushes on slope facing W



G106\_culverted spring fed watercourse facing W



G105\_spring flow facing N



G108\_confluence of spring fed watercourse facing N



G109\_spring fed watercourse facing W



G111\_overflow from pond possible tufa precipitation
Looking NW from 27\_180418



G110\_seepage on slope facing S



G112\_seepage and dry watercourse facing S



G113\_spring facing N



G115\_rushes in location of well facing S



G114\_pond facing N



G116\_dry seepage patch



G117\_dry seepage area possible pond as aquatic veg in large depression facing E



G119\_dry spring fed watercourse facing N



G118\_dry watercourse facing W



G120\_land drain facing E



G121\_rushes on slope facing E



G123\_spring fed watercourse with low flow facing SE



G122\_culverted watercourse facing NW



G124\_dry spring facing E



G125\_rushes on slope facing N



G128\_pond possibly dew pond facing E



G127\_dry spring fed pond facing N



G129\_well facing E



G130\_dry watercourse facing E



G132\_looking S DS\_070219



G131\_seepage from woodland facing W



G135\_spring at Stockwell Farm facing N



G136 \_ disused well at Stockwell Farm



G138 \_ facing N pond on L bank at Coldwell Bottom



G137 \_ possible seepage on L bank at Coldwell Bottom



G139 \_ facing W sunken ground on R bank at Coldwell Bottom



G140 \_ confluence of spring on northern slope with Coldwell Bottom facing W



G142 \_ flow into ground depression from G177



 $\mathsf{G141} \_\mathsf{spring} \ \mathsf{N} \ \mathsf{of} \ \mathsf{Coldwell} \ \mathsf{Bottom} \ \mathsf{facing} \ \mathsf{W}$ 



G143 \_ alluvial valley and solution features at Stockwell Farm facing S



G144 \_ pond at Stockwell Farm facing E



G146 \_ raised ground and subordinate rush on northern slope of Shab Hill



G145 \_ raised ground on slopes in Barber Wood S



G147 \_ spring at Stockwell Farm N of Watercombe Farm facing S