



This plan shows those pipes owned by National Grid Gas plc in their role as a

Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or

omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue. Further information on all DR4s can be determined by calling the DR4 hotline on 01455 892426 (9am-5pm) A DR4 is where a potential error has been identified within the asset record and a process is currently underway to investigate and resolve the error as appropriate.

MAPS Viewer Version 5.6.7.0

Local Machine

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Local Machine

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SCALE: Not to scale	LP MAINS
USER ID: thom7296	MP MAINS
DATE: 14/04/2014	
EXTRACT DATE: 10/12/2013	NHP MAINS
MAP REF: SP1592	
CENTRE: 415681, 292099	
Some examples of Plant Items: Valve Depth of	Syphon Diameter Material Change

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Fax

SEVERN TRENT WATER Ltd Asset Data Management GISmapping Team PO Box 5344 Coventry CV3 9FT Tel 0845 601 6616 (o

0845 601 6616 (орт 5) 02477 715862

Our Ref 83203

11 April 2014

Apparatus Location Enquiry

Further to your enquiry re: Minworth Island near Sutton Coldfield B76 9RQ (Your ref: 30584)

Enclosed is a copy of the plans showing the approximate positions of the **public** sewers and water mains situated within the vicinity of the land/property which is the subject of your enquiry.

There are NO water or sewer assets in tiles: SP1593SW & SP1692NW.

Asset Data Management can only provide plans of the location of the Company's underground assets. Therefore service pipes and drains are the responsibility of the property owner and should be anticipated during any excavation.

However, we wish to inform you that although most private lateral drains and sewers were transferred to Severn Trent Water's ownership on 1st October 2011, the Company does not possess complete records of these assets and therefore they may not be shown on these maps.

Please also find enclosed a copy of Severn Trent Water's General Conditions and Precautions for your information.

Please forward VAT receipt to your finance department.

Kind Regards GISmapping Team

> Enquiry received GISmapping: <u>11 April 2014</u>

TERMS AND CONDITIONS AND GENERAL PRECAUTIONS

These general terms and conditions and precautions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an Agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the Agreement for the self construction of water mains) (STW Apparatus) of Severn Trent Water Limited (STW) and are not to be taken as exhaustive.

TERMS AND CONDITIONS:

- 1. This plan and any information supplied with it is issued subject to these terms and conditions.
- This plan and any information supplied with it is furnished as a general guide only and no representation or warranty as to its accuracy is given or implied.
- In particular, the position and depth of STW Apparatus shown on the plan are approximate only. It is strongly recommended that a survey is carried out to determine the precise location of STW Apparatus. The exact positions and depths should be obtained by excavation trial holes.
- 4. The position of private drains, private sewers and service pipes to properties are not normally shown on this plan but their presence must be anticipated and you are strongly advised to carry out your own enquiries and investigations to locate them.
- 5. The position and depth of STW Apparatus may change and therefore this plan is issued subject to any such change. The onus is entirely upon you to confirm whether any changes to the plan have been made subsequent to issue and prior to any works being carried out.
- 6. This plan and any information shown on it must not be relied upon in the event of any development or other works (including but not limited to excavations) in the vicinity of STW Apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or distribution systems.
- 7. No person or company shall be relieved from liability for any damage caused to STW Apparatus by reason of the actual position and/or depths of STW Apparatus being different from those shown on the plan and any information supplied with it.
- If any provision of these terms is or becomes invalid or unenforceable, it will be taken to be removed from the rest of these terms to the extent that it is invalid or unenforceable. No other provision of these terms shall be affected.
- These terms shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts.

PRECAUTIONS:

STW staff will visit any site at reasonable notice to assist in the location of our apparatus and advise of any precautions necessary to avoid damage.

In order to achieve safe working conditions adjacent to any apparatus the following should be observed:

1. All STW Apparatus should be located by hand digging prior to the use of mechanical excavators.

- During construction work, where heavy plant will cross the line of STW Apparatus, specific crossing points must be agreed with STW and suitably reinforced where required. These crossing points should be clearly marked and crossing of the line of STW Apparatus at other locations must be prevented.
- 3. No explosives are to be used in the vicinity of any STW Apparatus without prior consultation with STW.
- 4. Where it is proposed to carry out piling or boring within 15 metres of any STW Apparatus, STW should be consulted to enable any affected STW Apparatus to be surveyed prior to the works commencing.
- Where excavation of trenches adjacent to any STW Apparatus affects its support, the STW Apparatus must be supported to the satisfaction of STW. Water mains and some sewers are pressurised and can fail if excavation removes support to thrust blocks to bends and other fittings.
- 6. Where a trench is excavated crossing or parallel to the line of any STW Apparatus, the backfill should be adequately compacted to prevent any settlement which could subsequently cause damage to the STW Apparatus. In special cases, it may be necessary to provide permanent support to STW Apparatus which has been exposed over a length of the excavation before backfilling and reinstatement is carried out. There should be no concrete backfill in contact with the STW Apparatus.
- 7. No apparatus should be laid along the line of STW Apparatus irrespective of clearance. Above ground apparatus must not be located within 5.0 metres either side of the centre line of STW Apparatus without prior approval. A minimum of radial clearance of 300 millimetres should be allowed between any plant being installed and existing STW Apparatus. No manhole or chamber shall be built over or around any STW Apparatus.
- 8. Where any STW Apparatus coated with a special wrapping is damaged, even to a minor extent, STW must be notified and the trench left open until the damage has been inspected and the necessary repairs have been carried out. In the case of any material damage to any STW Apparatus causing leakage, weakening of the mechanical strength of the pipe or corrosion-protection damage, the necessary remedial work will be recharged.
- 9. With regard to any proposed resurfacing works, you are required to contact STW on the number given below to arrange a site inspection to establish the condition of any STW Apparatus in the nature of surface boxes or manhole covers and frames affected by the works. STW will then advise on any measures to be taken.
- Trees or shrubs please ensure that, in relation to STW Apparatus, the mature root systems and canopies of any tree planted do not encroach within the recommended distances specified in the notes overleaf.

NOTES:

PARTICULAR RISKS INVOLVED WHEN WORKING WITH SEWERAGE SYSTEMS AND WATER MAINS

The following risks can be encountered when working on STW Apparatus

- Working in deep excavations.
- Working in the public highway (NRSWA)
- Working in confined spaces.
- Contents of the sewage. i.e. Aggressive Trade Effluent, Petrol, Chemicals etc.
- Accidental spillages may enter a public sewer and cause a harmful and/or explosive atmosphere
- In times of storm the water level in sewers may rise rapidly.
- Sewage can contain rat's urine. Infection from such contaminated sewage can cause Leptospirosis (Weil's Disease) and therefore appropriate hygiene measures should be taken.

You must not enter the public sewerage system without prior approval.

TREE PLANTING RESTRICTIONS

There are many problems with the location of trees adjacent to sewers, water mains and other STW Apparatus and these can lead to the loss of trees and hence amenity to the area which many people may have become used to. It is best if the problem is not created in the first place. Set out below are the recommendations for tree planting in close proximity to public sewers, water mains and other STW Apparatus.

- 1 Both Poplar and Willow trees have extensive root systems and should not be planted within 10 metres of a sewer, water main or other STW Apparatus.
- 2 The following trees and those of similar size, be they deciduous or evergreen, should not be planted within 6 metres of a sewer, water main or other STW Apparatus. e.g. Ash, Beech, Birch, most Conifers, Elm, Horse Chestnut, Lime, Oak, Sycamore, Apple and Pear.
- 3 STW personnel require a clear path to conduct surveys etc. No shrubs or bushes should be planted within 1 metre of the centre line of a sewer, water main or other STW Apparatus.
- 4 In certain circumstances, both STW and landowners may wish to plant shrubs/bushes in close proximity to a sewer, water main of other STW Apparatus for screening purposes. The following are shallow rooting and are suitable for this purpose: Blackthorn, Broom, Cotoneaster, Elder, Hazel, Laurel, Privet, Quickthorn, Snowberry, and most ornamental flowering shrubs.

Please ensure that a copy of this is passed to your representative and/or your Contractor on site. If any damage is caused to STW apparatus, the person, Contractor or Subcontractor responsible must inform STW immediately on

0800 783 4444 (24 hours)



			SP1592SW				
Distribution Main	Pumping Facility		Water Isolation Valve (Closed)	,	Water Chemical Injection Point	В	Housing, Building
Trunk Main (local/primary)	A Booster Facility		Water Isolation Valve (Open)	4	Motive Water Point	K	Housing, Kiosk
Strategic Main Fire Supply Main	Potable Water Storage	-0-	Water Isolation Valve (Partially Open)	\Rightarrow	Quality Sample Point		Housing, Other
————— Fire Main		+	Water Air Valve	00	Change In Characteristic	_	Pipe Support Structure
Non-Domestic Customer Service Pipe	Water Tower	+	Pressure Reducing Valve	?	Marker Post	-(Open Pipe
Domestic Customer Service Pipe	Well / Borehole	*	Pressure Sustaining Valve	>	Cable Junction	-(Discharge
★ X X Abandoned Main	Intake	*	Non-Return Valve		Anode	r.	End Cap
Elevated Main	Water Treatment Works / Chamber		Float Valve		Boundary Box	E	0001 4
Aqueduct	Draw-off Tower		Hydrant (Single/Double)	×	Stop tap		SSSI Area Access Right
⊖ ⊖ ⊖ Cable, Earthing	Bowser Point	0	Washout (Single/Double)		Cross Piece		Pre-1937 Properties
Cable, Optical Fibre/Instrumentation Cable, Low Voltage			Bulk Meter Water Hatch Box		Strainer		
Cable, High Voltage	Water Facility Connection	•	Pressure Tapping	Y	Listening Post		
+++++++ Cable, Other		•	Insertion Flow Meter Point	-	Revenue Meter		

		_
ЛАТ	ERIALS	
AC	- ASBESTOS CEMENT	
ĸ	- ALKATHENE	
:	- CONCRETE	
3	- CAST IRON	
:U	- COPPER	
F	- GLASS FIBRE	
RC	- GLASS REINFORCED CONCRETE	
RP	- GLASS REINFORCED PLASTIC	
IDPE	- HIGH DENSITY POLY	
IPPE	- HIGH PERFORMANCE POLY	
DPE	- LOW DENSITY POLY	
EAD	- LEAD	
IDPE	- MEDIUM DENSITY POLY	
•	- OTHER	
c	- PRE-STRESSED CONCRETE	
F	- PITCH FIBRE	
P	- POLY PROPYLENE	
SC	- PLASTIC STEEL COMPOSITE	
VC	- POLY VINYL CHLORIDE	
PM	- REINFORCED PLASTIC MATRIX	
	- SPUN IRON	
ST	- STAINLESS STEEL	
т	- STEEL	
PVC	- UNPLASTICISED PVC	

. L	INING
BI	- BITUMEN
CL	- CEMENT
PL	- PLASTIC
RL	- RESIN

O - OTHER





Insertion Flow Meter Point

ater Chemical Injection Point	В	Housing, Building	MAT	ERIALS	1	INING		
			AC	- ASBESTOS CEMENT	BI	- BITUMEN		
otive Water Point	K	Housing, Kiosk	AK	- ALKATHENE	CL	- CEMENT		
the Ground Builet			c	- CONCRETE	PL	- PLASTIC		
uality Sample Point		Housing, Other	CI	- CAST IRON	RL	- RESIN		N
hanna la Ohannatariatia		Ding Council Objection	cu	- COPPER	0	- OTHER		1
hange In Characteristic		Pipe Support Structure	GF	- GLASS FIBRE				Δ
arker Post		Onen Dise	GRC	- GLASS REINFORCED CONCRETE				
		Open Pipe	GRP	- GLASS REINFORCED PLASTIC				
able Junction		Discharge	HDPE	- HIGH DENSITY POLY			117	
	-(Discharge	HPPE	- HIGH PERFORMANCE POLY			W<	
node		End Cap	LDPE	- LOW DENSITY POLY				
the first of the	E		LEAD	- LEAD				T
oundary Box		SSSI Area	MDPE	- MEDIUM DENSITY POLY				V
	factor and		0	- OTHER				v
top tap	-	Access Right	PC	- PRE-STRESSED CONCRETE				S
ross Piece		Pre-1937 Properties	PF	- PITCH FIBRE				D
			PP	- POLY PROPYLENE				
rainer			PSC	- PLASTIC STEEL COMPOSITE				
			PVC	- POLY VINYL CHLORIDE				
stening Post			RPM	- REINFORCED PLASTIC MATRIX				
			SI	- SPUN IRON				
evenue Meter			SST	- STAINLESS STEEL				
			ST	- STEEL				

UPVC - UNPLASTICISED PVC

92NW





	Distribution Main		Pumping Facility	
	Trunk Main (local/primary)			-
	Strategic Main	Δ	Booster Facility	
	Fire Supply Main		Potable Water Storage	-0-
	Fire Main		Water Tower	-+
	Non-Domestic Customer Service Pipe		Water Tower	
	Domestic Customer Service Pipe	•	Well / Borehole	+
. x x	Abandoned Main	\diamond	Intake	
<u>er</u>	Elevated Main	ň	Water Treatment Works / Chamber	
	Aqueduct		Water Heatment Works / Onamber	
	Duct		Draw-off Tower	
	Cable, Earthing	\bigcirc	Bowser Point	0
	Cable, Optical Fibre/Instrumentation	\cup	Dowser Form	
	Cable, Low Voltage	\boxtimes	Water Facility Connection	
	Cable, High Voltage		e construction E comparison de la constru-	0
++	Cable, Other			V

SP1591NW

	Water Isolation Valve (Closed)	,	Water Chemical Injection Point	В	Housing, Building		ERIALS	L	INING	
+	Water Isolation Valve (Open)	1	Motive Water Point	K	Housing, Kiosk	AC	- ASBESTOS CEMENT	BI	- BITUMEN - CEMENT	
-0-	Water Isolation Valve (Partially Open)	\Rightarrow	Quality Sample Point		Housing, Other	c ci	- CONCRETE - CAST IRON	PL	- PLASTIC - RESIN	NI
-+-	Water Air Valve	00	Change In Characteristic	0	Pipe Support Structure	CU	- COPPER - GLASS FIBRE	o	- OTHER	
	Pressure Reducing Valve	9	Marker Post	-<	Open Pipe	GRC	- GLASS REINFORCED CONCRETE			
*	Pressure Sustaining Valve	>	Cable Junction	-	Discharge	HDPE	- HIGH DENSITY POLY			W
-	Non-Return Valve	<u>_</u>	Anode		End Cap	LDPE	- HIGH PERFORMANCE POLY - LOW DENSITY POLY			W
	Float Valve		Boundary Box	E		LEAD	- LEAD			V
	Hydrant (Single/Double)				SSSI Area	MDPE	- MEDIUM DENSITY POLY			V
0	Washout (Single/Double)	×	Stop tap	_	Access Right	PC	- PRE-STRESSED CONCRETE			S
			Cross Piece		Pre-1937 Properties	PF	- PITCH FIBRE			5
	Bulk Meter	-	Strainer			PP PSC	- POLY PROPYLENE - PLASTIC STEEL COMPOSITE			
	Water Hatch Box		ottamer			PVC	- POLY VINYL CHLORIDE			
\diamond	Pressure Tapping	<u> </u>	Listening Post			RPM SI	- REINFORCED PLASTIC MATRIX - SPUN IRON			
+	Insertion Flow Meter Point	-	Revenue Meter			55T	- STAINLESS STEEL			
						ST	- STEEL			

UPVC - UNPLASTICISED PVC





			SP1691NW								
Distribution Main	Pumping Facility		Water Isolation Valve (Closed)	,	Water Chemical Injection Point	В	Housing, Building	MATERIALS	I	LINING	
Trunk Main (local/primary)	Booster Facility	-+-	Water Isolation Valve (Open)		Motive Water Point	K	Housing, Kiosk	AC - ASBESTOS CEMENT AK - ALKATHENE	BI	- BITUMEN	
Strategic Main	Potable Water Storage	-0-	Water Isolation Valve (Partially Open)	\Rightarrow	Quality Sample Point		Housing, Other	C - CONCRETE CI - CAST IRON	PL RL	- PLASTIC - RESIN	N
————— Fire Main	Water Tower	+	Water Air Valve	00	Change In Characteristic		Pipe Support Structure	CU - COPPER GF - GLASS FIBRE	0	- OTHER	
Non-Domestic Customer Service Pipe		+	Pressure Reducing Valve	<u>Ŷ</u>	Marker Post	-C	Open Pipe	GRC - GLASS REINFORCED CONCRETE GRP - GLASS REINFORCED PLASTIC			Δ
Domestic Customer Service Pipe	Well / Borehole	*	5	>	Cable Junction	-	Discharge	HDPE - HIGH DENSITY POLY HPPE - HIGH PERFORMANCE POLY			W
← × × × Abandoned Main	Intake	*	Non-Return Valve	<u> </u>	Anode	E	End Cap	LDPE - LOW DENSITY POLY			
Elevated Main	Water Treatment Works / Chamber		Float Valve		Boundary Box		SSSI Area	LEAD - LEAD MDPE - MEDIUM DENSITY POLY			V
Duct	Draw-off Tower		Hydrant (Single/Double) Washout (Single/Double)	×	Stop tap	-	Access Right	0 - OTHER PC - PRE-STRESSED CONCRETE			Ś
Cable, Earthing	O Bowser Point		Bulk Meter	•	Cross Piece		Pre-1937 Properties	PF - PITCH FIBRE PP - POLY PROPYLENE			5
Cable, Optical Fibre/Instrumentation	Water Facility Connection		Water Hatch Box		Strainer			PSC - PLASTIC STEEL COMPOSITE PVC - POLY VINYL CHLORIDE			
Cable, High Voltage		\diamond	Pressure Tapping	<u> </u>	Listening Post			RPM - REINFORCED PLASTIC MATRIX			
+ + + + - + Cable, Other		•	Insertion Flow Meter Point	-	Revenue Meter			SST - STAINLESS STEEL			
								ST - STEEL			

UPVC - UNPLASTICISED PVC





- Aqueduct _____ Duct
- O O Cable, Earthing ----- Cable, Optical Fibre/Instrumentation ----- Cable, Low Voltage ---- Cable, High Voltage
- ++++++ Cable, Other
- Water Treatment Works / Chamber
- Draw-off Tower
- O Bowser Point
- Water Facility Connection
- Bo \boxtimes Hydrant (Single/Double) × Sto Washout (Single/Double) Cro Bulk Meter Stra Water Hatch Box List Y Pressure Tapping - Rev
- Insertion Flow Meter Point

Vater Chemical Injection Point	В	Housing, Building	MAT	ERIALS	L	INING		
		Hausia Kiash	AC	- ASBESTOS CEMENT	BI	- BITUMEN		
Notive Water Point	K	Housing, Kiosk	AK	- ALKATHENE	CL	- CEMENT		
Quality Sample Point		Housing Other	c	- CONCRETE	PL	- PLASTIC		
quality Sample Fornt		Housing, Other	CI	- CAST IRON	RL	- RESIN		N
Change In Characteristic		Ding Support Structure	cu	- COPPER	0	- OTHER		1
shange in characteristic		Pipe Support Structure	GF	- GLASS FIBRE				Δ
Aarker Post	~	Open Pipe	GRC	- GLASS REINFORCED CONCRETE				
	-C	Open Pipe	GRP	- GLASS REINFORCED PLASTIC				
Cable Junction	-(Discharge	HOPE	- HIGH DENSITY POLY			117	
	-	Lioundigo	HPPE	- HIGH PERFORMANCE POLY			W<	
Anode		End Cap	LDPE	- LOW DENSITY POLY				
and any David	E		LEAD	- LEAD				7
Boundary Box		SSSI Area	MDPE	- MEDIUM DENSITY POLY				V
Stop tap			o	- OTHER				v
бор гар		Access Right	PC	- PRE-STRESSED CONCRETE				S
Cross Piece		Pre-1937 Properties	PF	- PITCH FIBRE				D
			PP	- POLY PROPYLENE				
Strainer			PSC	- PLASTIC STEEL COMPOSITE				
			PVC	- POLY VINYL CHLORIDE				
istening Post			RPM	- REINFORCED PLASTIC MATRIX				
Revenue Meter			SI	- SPUN IRON				
			SST	- STAINLESS STEEL				
			ST	- STEEL				

UPVC - UNPLASTICISED PVC





	Distribution Main		Pumping Facility
	Trunk Main (local/primary)	_	
	Strategic Main	Δ	Booster Facility
	Fire Supply Main		Potable Water Storage
	Fire Main		Water Tower
	Non-Domestic Customer Service Pipe		
	Domestic Customer Service Pipe	•	Well / Borehole
* * * *	Abandoned Main	\diamond	Intake
EL El	Elevated Main		Water Treatment Works / Chamber
	Aqueduct		Water meatment works / Chamber
	Duct		Draw-off Tower
0 0 0	Cable, Earthing	\bigcirc	Bowser Point
	Cable, Optical Fibre/Instrumentation	\cup	
	Cable, Low Voltage	\boxtimes	Water Facility Connection
	Cable, High Voltage		
+++++++++++++++++++++++++++++++++++++++	Cable, Other		

SP1491NE

	Water Isolation Valve (Closed)	,	Water Chemical Injection Point	В	Housing, Building		ERIALS		INING		
+	Water Isolation Valve (Open)	4	Motive Water Point	K	Housing, Kiosk	AC	- ASBESTOS CEMENT	BI	- BITUMEN - CEMENT		
-0-	Water Isolation Valve (Partially Open)	\Rightarrow	Quality Sample Point		Housing, Other	c ci	- CONCRETE - CAST IRON	PL RL	- PLASTIC - RESIN		NI
+-	Water Air Valve	00	Change In Characteristic	_	Pipe Support Structure	CU	- COPPER - GLASS FIBRE	0	- OTHER		N
+	Pressure Reducing Valve	2	Marker Post	-<	Open Pipe	GRC	- GLASS REINFORCED CONCRETE				Δ
*	Pressure Sustaining Valve	>	Cable Junction	-(Discharge	HDPE	- HIGH DENSITY POLY			W	
	Non-Return Valve	<u>_</u>	Anode	E	End Cap	LDPE	- HIGH PERFORMANCE POLY - LOW DENSITY POLY			VV	
	Float Valve		Boundary Box		SSSI Area	LEAD	- LEAD - MEDIUM DENSITY POLY				V
	Hydrant (Single/Double)	×	Stop tap		Access Right	0 PC	- OTHER - PRE-STRESSED CONCRETE				V C
•	Washout (Single/Double) Bulk Meter	•	Cross Piece		Pre-1937 Properties	PF	- PITCH FIBRE - POLY PROPYLENE				0
	Water Hatch Box		Strainer			PSC	- PLASTIC STEEL COMPOSITE - POLY VINYL CHLORIDE				
\diamond	Pressure Tapping	<u> </u>	Listening Post			RPM	- REINFORCED PLASTIC MATRIX				
+	Insertion Flow Meter Point		Revenue Meter			SI SST	- SPUN IRON - STAINLESS STEEL				
						ST	- STEEL - UNPLASTICISED PVC				





	0 0 0	- Cable, Earthing		Blind Shaft	-	Sewer Chemical Injection Point	MA	TERIALS	C	ATEGORIES		TABULAR KEY	
Private Combined Gravity Sewer	>	Cable Junction		Combined Use Manhole		Sewer Junction	AC	- ASBESTOS CEMENT	w	- WEIR	Α,	Sewer pipe data refers to downstream sewer pipe,	
Private Foul Gravity Sewer	من <u>ت</u> ت متحتم	Cable, Optical Fibre/Instrumentation	0	Flushing Chamber		Sewerage Air Valve	BR	- BRICK	С	- CASCADE	в.	 Where the node bifurcates (splits) X and Y indicates downstream sewer pipe. 	
Private Surface Water Gravity Sewer		Cable, Low Voltage				Sewerage All valve	cc	- CONCRETE BOX CULVERT	DB	- DAMBOARD	C.	. Gradient is stated a 1 in	
Public Combined Gravity Sewer			•	Foul Use Manhole	C.	Sewerage Hatch Box Point	CI	- CAST IRON	SE	- SIDE ENTRY			
Public Foul Gravity Sewer		Cable, High Voltage	•	Grease Trap	_	Sewerage Isolation Valve	CO CSB	- CONCRETE - CONCRETE SEGMENTS (BOLTED)	FV BD	- FLAP VALVE - BACK DROP			
Public Surface Water Gravity Sewer	+++++++++++++++++++++++++++++++++++++++	Cable, Other	+	Head Node	Ŷ	Soakaway	CSU	- CONCRETE SEGMENTS (UNBOLTED) - DUCTILE IRON	S	- SIPHON - HIGHWAY DRAIN			1
Trunk Combined Gravity Sewer	B	Housing, Building Housing, Kiosk	-	Hydrobrake	0	Surface Water Manhole	GRC	- GLASS REINFORCED CONCRETE	S104	- SECTION 104			W
Trunk Foul Use Gravity Sewer	K	Housing, Nosk		Lamphole			MAC	- MASONRY IN REGULAR COURSES	SHA	7.5.1.1.1.1	P	PURPOSE	
Trunk Surface Water Gravity Sewer	US	Disposal Site	-	Outfall		Vent Column	MAR	- MASONRY RANDOMLY COURSED - POLYETHLENE	C	- CIRCULAR - EGG SHAPED	C	- COMBINED - FINAL EFFLUENT	
Combined Use Pressurised Sewer	STW	Sewage Treatment Works				10000-000-0000	PF	- PITCH	0	- OTHER	F	- FOUL	
Foul Use Pressurised Sewer		Housing, Other		Overflow		Waste Water Storage	PP	- POLYPROPYLENE - PLASTIC STEEL COMPOSITE	R	- RECTANGLE - SOUARE	L	- SLUDGE - SURFACE WATER	
Surface Water Pressurised Sewer		Conception and the second	-	Penstock	_	Culverted Watercourse	PVC	- POLYVINYL CHLORIDE	т	- TRAPEZOIDAL	0	SURFACE WHER	
🛌 👝 — Highway Drain		Pipe Support Structure Sewage Pumping Facility	۲	Petrol Interceptor		+ Pre-1937 Properties	RPM SI	- REINFORCED PLASTIC MATRIX - SPUN (GREY) IRON	U	- UNKNOWN			
 Combined Lateral Drain (SS) Foul Lateral Drain (SS) 			*	Sewer Blockage			XXX	- OTHER ate Sewers are shown in magenta					
Surface Water Lateral Drain (SS)	\boxtimes	Sewer Facility Connection Inlet / Outlet	\$	Sewer Collapse			All sec	tion 104 sewers are shown in green	m Trent V	Vater after the 1ª October 20	11, bu	It have not been surveyed and confirmed by Severn	

Sewer No	ae	Sewer P	ipe Data							
REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX	MIN SIZE	GRADIENT	YEAR
SP15920201	nil	nil	nil	F	VC	c	225	nil	0.00	nill
SP15920281	nil	nil	nil	с	BR	c	2400	nil	0.00	nill
SP15920282	nil	nil	nil	с	BR	c	4200	nil	0.00	nill
SP15920301	88.86	87.70	87.39	F	VC	c	150	nil	46.52	nill
SP15920352	88.80	88.06	87.98	s	VC	c	150	nil	323.89	nill
SP15920353	88.83	88.14	88.10	s	VC	c	150	nil	240.33	nill
SP15920401	89.25	87.49	87.39	F	VC	c	300	nil	220.20	nill
SP15920404	88.74	87.64	87.52	F	co	c	300	nil	596.58	nill
SP15920406	88.75	88.06	87.72	F	VC	c	150	nil	131.71	nill
SP15920407	88.73	87.69	nil	F	VC	c	150	nil	0.00	nill
SP15920409	88.83	87.99	87.73	F	VC	c	150	nil	90.81	nil
SP15920410	88.80	88.34	nit	F	VC	c	150	nil	0.00	nil
SP15920453	88.95	88.03	87.92	s	co	c	375	nil	568.00	nil
SP15920455	88.77	87.38	87.02	s	co	C	525	nil	214.89	nit
SP15920458	88.80	88.26	88.16	s	VC	c	150	nil	123.64	nill
SP15920463	88.80	87.78	87.72	s	VC	c	150	nil	130.17	nill
SP15920464	88.87	87.69	87.64	s	VC	c	150	nil	312.40	nill
SP15920465	89.10	87.64	87.52	s	VC	c	150	nil	212.50	nill
SP15920466	88.35	87.61	87.52	s	VC	c	150	nil	251.44	nill
SP15920467	88.40	87.74	87.63	s	VC	c	150	nil	45.45	nill
SP15920468	88.44	87.81	87.75	s	VC	c	150	nil	142.86	nill
SP15920469	88.65	87.52	87.51	s	VC	c	150	nil	1131.00	nill
SP15921281	nil	nil	nil	c	BR	c	4200	nil	0.00	nill
SP15921282	nil	nil	nil	c	BR	c	2400	nil	0.00	nill
SP15921301	nil	nil	85.91	F	VC	c	225	nil	0.00	nill
SP15921352	nil	nil	86.93	s	VC	c	225	nil	0.00	nill
SP15921353	87.98	87.20	86.90	s	VC	c	225	nil	39.00	nill
SP15921354	87.92	86.89	nil	s	VC	c	300	ni	0.00	nill
SP15921451	88.78	87.76	87.71	s	VC	c	150	nil	506.00	nill
SP15921452	88.35	87.71	87.62	s	VC	c	150	nil	260.33	nill
SP15921453	88.26	86.92	86.87	s	U	c	300	nil	340.60	nill
SP15921454	87.81	87.06	86.93	s	VC	c	225	nil	141.38	nill
SP15922301	87.93	85.90	85.54	F	VC	c	225	nil	265.46	nil
SP15922381	nil	nil	nil	c	BR	c	4200	nil	0.00	nill
SP15922451	88.35	86.73	86.38	s	VC	c	225	nil	136.31	nil
SP15923381	nil	nil	nil	c	BR	c	2400	nil	0.00	nil
SP15923382	nil	ni	nil	c	BR	c	4200	nil	0.00	nit
SP15923451	87.96	86.33	86.05	s	VC	c	225	nil	113.50	nil
SP15923452	87.98	86.04	85.71	s	VC	c	225	nil	125.65	nil
SP15923453	88.22	85.70	85.34	s	VC	c	225	nil	117.22	nill
SP15924301	nil	nil	nil	F	VC	c	225	nil	0.00	nill
SP15924302	87.61	85.00	nil	F	VC	c	225	nil	0.00	nill
SP15924352	nil	nil	84.21	s	VC	c	300	nil	0.00	nill
SP15924381	nil	nil	nil	c	BR	c	2400	nil	0.00	nill
SP15924401	nil	nil	85.46	F	VC	c	225	nil	0.00	nill
SP15924403	87.84	86.10	85.67	F	VC	c	225	nil	38.07	nill
SP15924405	87.80	85.65	85.50	F	VC	c	225	nil	260.80	nill
SP15924409	87.96	86.42	86.11	F	VC	c	225	nil	84.38	nill
SP15924452	nil	nil	84.74	S	co	c	600	ni	0.00	nill
SP15924452	87.83	85.03	84.80	s	VC	c		-		-
SP15924454	88.04	85.76	84.80 nil	s	VC	c	300 225	nil fin	256.78	nill
SP15924457 SP15924458	87.92	85.32		s	U	c		nii	0.00	nill
			85.04	F			300	nil	89.36	nil
SP15924460 SP15924461	87.74 87.95	86.56	nil	S	VC	c	225	nil	0.00	nit

All Sewers that have been transferred to Severn Trent Water after the 1st October 2011, but have not been surveyed and confirmed by Severn Trent Water are shown in orange





- --- Public Surface Water Gravity Sewer ----- Trunk Combined Gravity Sewer ----- Trunk Foul Use Gravity Sewer - --- Trunk Surface Water Gravity Sewer -> Combined Use Pressurised Sewer - Foul Use Pressurised Sewer - - - Surface Water Pressurised Sewer Highway Drain

--- Combined Lateral Drain (SS)

Foul Lateral Drain (SS)

- ---- Surface Water Lateral Drain (SS)

Housing, Building Housing, Kiosk **Disposal Site** Sewage Treatment Works

Housing, Other

Pipe Support Structure

Sewage Pumping Facility

Sewer Facility Connection Inlet / Outlet

B

K

DS

STW

-

 \boxtimes

100 Outfall Overflow -Penstock

Lamphole

_

۲ Petrol Interceptor

Hydrobrake

★ Sewer Blockage

Sewer Collapse

ewer Node	Sewer Pipe Data
enter noue	oonor ripe bata

REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX SIZE	MIN SIZE	GRADIENT	YEAR
SP16920301	83.05	81.45	81.27	F	VC	С	225	nil	534.39	nill
SP16920302	82.72	81.27	79.88	F	VC	c	225	nil	71.32	nill
SP16921401	81.47	79.88	79.78	F	VC	С	225	nil	992.45	nill
SP16922351	nil	nil	79.22	s	VC	C	300	nil	0.00	nill
SP16922401	81.82	79.64	79.65	F	VC	c	225	nil	0.00	nill
SP16922402	81.68	79.65	79.48	F	VC	c	300	nit	97.78	nill
SP16922453	81.89	78.58	nil	s	co	c	525	nil	0.00	nill
SP16922454	81.70	79.87	79.22	s	VC	c	150	nil	59.33	nill
SP16923302	nil	nil	78.63	F	PVC	С	450	nil	0.00	2002
SP16923303	nil	78.63	77.56	F	PVC	c	450	nil	11.68	2002
SP16923304	nil	77.56	77.54	F	DI	c	450	450	750.00	2002
SP16923305	nil	77.54	77.44	F	PVC	С	450	450	145.83	nil
SP16923401	81.70	78.86	nil	F	VC	c	225	nil	1.17	nil
SP16923402	81.83	nil	79.78	F	VC	с	225	nil	0.00	nil
SP16923454	nil	nil	79.22	s	со	с	375	nil	0.00	nill
SP16923455	82.51	80.82	78.73	s	VC	с	225	nil	53.78	nill
SP16924102	80.18	77.44	77.28	F	PVC	с	450	450	1012.50	2002
SP16924401	82.30	80.67	nil	F	VC	с	150	nil	0.00	nill
SP16924403	82.86	81.06	80.67	F	VC	с	150	nil	195.49	nill
SP16924452	82.96	81.21	nil	s	co	c	375	nil	0.00	nill

-	Sewer Chemical Injection Point	IVIA	IERIALS	C	ALEGORIES		TABULAR KEY	
	Sewer Junction	AC	- ASBESTOS CEMENT	w	- WEIR	Α.	Sewer pipe data refers to downstream sewer pipe.	
	Sewer Surction	BR	- BRICK	с	- CASCADE	в.	Where the node bifurcates (splits) X and Y indicates	
+	Sewerage Air Valve						downstream sewer pipe.	
	0	CC	- CONCRETE BOX CULVERT	DB	- DAMBOARD	C.	Gradient is stated a 1 in	
0	Sewerage Hatch Box Point	CI	- CAST IRON	SE	- SIDE ENTRY			
		со	- CONCRETE	FV	- FLAP VALVE			
_	Sewerage Isolation Valve	CSB	- CONCRETE SEGMENTS (BOLTED)	BD	- BACK DROP			
~		CSU	- CONCRETE SEGMENTS (UNBOLTED)	S	- SIPHON			
Ø	Soakaway	DI	- DUCTILE IRON	HD	- HIGHWAY DRAIN			T
0		GRC	- GLASS REINFORCED CONCRETE	S104	- SECTION 104			
0	Surface Water Manhole	MAC	- MASONRY IN REGULAR COURSES	SHA	PE	P	URPOSE	
_	Vent Column	MAR	- MASONRY RANDOMLY COURSED	С	- CIRCULAR	с	- COMBINED	
	Vent Column	PE	- POLYETHLENE	Е	- EGG SHAPED	E	- FINAL EFFLUENT	
		PF	- PITCH	0	- OTHER	F	- FOUL	
	Waste Water Storage	PP	- POLYPROPYLENE	R	- RECTANGLE	L	- SLUDGE	
		PSC	- PLASTIC STEEL COMPOSITE	S	- SQUARE	s	- SURFACE WATER	
	Culverted Watercourse	PVC	- POLYVINYL CHLORIDE	т	- TRAPEZOIDAL			
		RPM	- REINFORCED PLASTIC MATRIX	U	- UNKNOWN			
	Pre-1937 Properties	SI	- SPUN (GREY) IRON					
		XXX	- OTHER					
		All sect All Sev	ate Sewers are shown in magenta tion 104 sewers are shown in green vers that have been transferred to Seve /ater are shown in orange	m Trent W	ater after the 1 st October 20	11, but	have not been surveyed and confirmed by Severn	

CATEGORIES

TABULAR KEY





\times \times \times \times Abandoned Sewer	⊖ ⊖ ⊖ Cable, Earthing	Blind Shaft	 Sewer Chemical Injection Point 	MATERIALS	CATEGORIES	TABULAR KEY	
Private Combined Gravity Sewer	> Cable Junction	Combined Use Manhole	 Sewer Junction 	AC - ASBESTOS CEMENT BR - BRICK	W - WEIR C - CASCADE	 A. Sewer pipe data refers to downstream sewer pipe. B. Where the node bifurcates (splits) X and Y indicates 	
Private Foul Gravity Sewer Private Surface Water Gravity Sewer	Cable, Optical Fibre/Instrumentation	Flushing Chamber	 Sewerage Air Valve 	CC - CONCRETE BOX CULVERT	DB - DAMBOARD	 downstream sewer pipe. Gradient is stated a 1 in 	
Public Combined Gravity Sewer	Cable, Low Voltage	Foul Use Manhole	Sewerage Hatch Box Point	CI - CAST IRON	SE - SIDE ENTRY	C. Gradient is stated a 1 in	
Public Foul Gravity Sewer	Cable, Other	Grease Trap	 Sewerage Isolation Valve 	CO - CONCRETE CSB - CONCRETE SEGMENTS (BOLTED)	FV - FLAP VALVE BD - BACK DROP		
Public Surface Water Gravity Sewer	B Housing, Building	+ Head Node	Soakaway	CSU - CONCRETE SEGMENTS (UNBOLTED) DI - DUCTILE IRON	S - SIPHON HD - HIGHWAY DRAIN		W<
Trunk Combined Gravity Sewer	K Housing, Kiosk	— Hydrobrake	O Surface Water Manhole	GRC - GLASS REINFORCED CONCRETE MAC - MASONRY IN REGULAR COURSES	S104 - SECTION 104	PURPOSE	VV -
Trunk Surface Water Gravity Sewer	Disposal Site	 Lamphole Outfall 	Vent Column	MAR - MASONRY RANDOMLY COURSED PE - POLYETHLENE	C - CIRCULAR E - EGG SHAPED	C - COMBINED E - FINAL EFFLUENT	
Combined Use Pressurised Sewer	Sewage Treatment Works		Waste Water Storage	PF - PITCH PP - POLYPROPYLENE	O - OTHER R - RECTANGLE	F - FOUL L - SLUDGE	
Foul Use Pressurised Sewer Surface Water Pressurised Sewer	Housing, Other	= Penstock	Culverted Watercourse	PSC - PLASTIC STEEL COMPOSITE PVC - POLYVINYL CHLORIDE	S - SQUARE T - TRAPEZOIDAL	S - SURFACE WATER	
🛏 — — Highway Drain	 Pipe Support Structure Sewage Pumping Facility 	Petrol Interceptor	++++ Pre-1937 Properties	RPM - REINFORCED PLASTIC MATRIX SI - SPUN (GREY) IRON	U - UNKNOWN		
 Combined Lateral Drain (SS) Foul Lateral Drain (SS) 	Sewage Fulliping Facility Sewer Facility Connection Inlet / Outlet	★ Sewer Blockage		XXX - OTHER All Private Sewers are shown in magenta			
		Sewer Collapse		All section 104 sewers are shown in green	m Trent Water after the 1ª October 20)11, but have not been surveyed and confirmed by Severn	

REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX SIZE	MIN SIZE	GRADIENT	YEAR
SP15925281	nil	nil	nil	С	BR	с	2400	nil	0.00	nill
SP15925352	86.93	84.16	82.82	s	co	c	600	nil	52.61	nit
SP15925381	nil	nil	nil	С	BR	C	4200	nil	0.00	nil
SP15925401	87.30	85.47	84.92	F	VC	C	225	nil	132.76	nill
SP15925408	86.88	84.66	84.64	F	VC	С	225	nil	1651.00	nill
SP15925409	86.98	84.90	84.69	F	VC	С	225	nil	90.33	nill
SP15925452	87.19	84.74	84.57	s	co	С	600	nil	16.65	nill
SP15925453	87.18	84.56	84.16	s	co	C	600	nil	201.50	nill
SP15925454	86.96	83.70	83.57	S	co	Ċ	450	nil	170.31	nill
SP15925455	86.87	83.56	83.49	s	co	C	450	nil	400.29	nill
SP15926251	86.48	80.39	nil	s	co	c	1200	nil	0.00	nill
SP15926255	nil	nil	nil	S	co	с	1200	nil	0.00	nill
SP15926255	nil	nil	78.84	s	co	С	1200	nil	0.00	nill
SP15926256	ni	nil	nil	s	co	C	1200	nil	0.00	nill
SP15926281	nil	nil	nii	с	BR	с	4200	nil	0.00	nill
SP15926282	nil	nil	nil	с	BR	С	2400	ni	0.00	nill
SP15926352	85.33	84.21	nil	s	VC	С	225	nit	0.00	nill
SP15926353	87.27	81.29	80.74	s	BR	с	1200	nil	140.95	nill
SP15926354	nil	nil	83.10	s	VC	с	450	nil	0.00	nill
SP15926355	86.60	82.48	81.60	s	co	с	750	nil	9.82	nill
SP15926356	85.82	80.68	80.41	s	BR	c	1200	nil	247.22	nill
SP15926401	86.00	84.00	nil	F	VC	c	300	nil	0.00	nill
SP15926404	86.39	84.05	84.00	F	VC	c	225	nil	468.20	nill
SP15926406	86.59	84.08	84.06	F	VC	c	225	nil	948.50	nill
SP15926409	86.62	84.62	84.08	F	VC	c	225	nil	93.45	nill
SP15926411	86.74	84.64	84.56	F	VC	c	225	nil	414.25	nil
SP15926452	86.32	83.04	82.98	s	co	c	525	nil	524.57	nill
SP15926453	86.38	83.09	83.04	s	co	c	525	nil	379.40	nil
SP15926455	86.42	83.18	83.11	s	co	c	525	nit	185.71	nil
SP15926458	86.64	83.26	83.18	s	co	c	525	nil	580.00	
SP15926461	86.74	83.44	83.28	s	co	c	450			nil
SP15927052	nil	nil	78.84	s	VC	c	225	nil	206.65	nil
SP15927052	nil	nil		s				nil	0.00	nil
	nil	nil	nil	s	CO	C	1200	nil	0.00	nill
SP15927151			nil	-	CO	C	1200	nil	0.00	näl
SP15927281	nil	nil	nil	C	BR	C	4200	nil	0.00	nill
SP15927282	nil	nil	nil	C	BR	C	4200	nil	0.00	nill
SP15927283	nil	nil	nil	C	BR	c	2400	nil	0.00	nill
SP15927284	nil	nil	nil	C	BR	C	2400	nil	0.00	nill
SP15927301	nil	nil	nil	F	VC	C	225	nil	0.00	nill
SP15927304	nil	nil	82.79	F	VC	C	225	nil	0.00	nill
SP15927305	84.59	82.79	82.68	F	VC	C	225	nil	194.33	nill
SP15927306	84.26	83.06	nit	F	VC	С	225	nil	0.00	nill
SP15927352	nil	nil	82.98	S	VC	C	225	nil	0.00	nill
SP15927401	nil	nil	83.08	F	VC	C	225	ni	0.00	nill
SP15927402	nil	nil	nil	F	VC	C	300	nil	0.00	nill
SP15927403	89.13	83.81	nil	F	VC	C	225	nil	0.00	nill
SP15927454	85.75	83.89	nil	S	VC	С	300	nit	0.00	nill
SP15927455	85.80	83.59	83.89	S	VC	C	300	nil	0.00	nil
SP15927456	86.17	nil	83.64	S	VC	С	225	nil	0.00	nil
SP15927457	nil	nil	nil	S	VC	С	225	nil	0.00	nil
SP15927459	86.11	84.41	84.05	S	VC	C	225	nil	133.39	nill
SP15927461	86.30	84.05	83.45	s	VC	С	225	nil	59.18	nill
SP15928001	81.48	80.92	79.12	F	VC	c	225	nil	65.46	nill
SP15928102	82.76	80.66	80.92	F	VC	C	225	nil	0.00	nill
6P15928151	84.41	nil	nil	s	VC	c	225	nil	0.00	nill
SP15928203	84.00	82.40	80.66	F	VC	с	225	nil	85.05	nill
SP15928251	nil	nil	nit	S	VC	с	225	nil	0.00	nill
SP15928252	84.15	82.83	nil	s	VC	с	225	nil	0.00	nill
SP15928254	84.32	82.99	82.85	s	VC	с	225	nil	198.43	nill
SP15928301	84.50	82.66	81.98	F	VC	с	225	nil	126.03	nill
SP15928302	83.86	81.98	81.45	F	VC	с	225	nil	220.04	nill
SP15928401	86.50	84.20	83.82	F	VC	с	225	nii	113.66	nill
SP15929281	nil	nil	nil	c	BR	с	2400	nil	0.00	nill
SP15929301	nil	nil	nil	F	VC	c	150	nil	0.00	nill
P15929302	nil	nil	nil	F	VC	c	150	ni	0.00	nill

All Sewers that have been transferred to Severn Trent Water after the 1st October 2011, but have not been surveyed and confirmed by Severn Trent Water are shown in orange





\star × × × Abandoned Sewer	0 0 0	Cable, Earthing		Blind Shaft	
Private Combined Gravity Sewer	5	Cable Junction		Combined Use Manhole	
Private Foul Gravity Sewer		Cable, Optical Fibre/Instrumentation	0	Flushing Chamber	
Private Surface Water Gravity Sewer		Cable, Low Voltage		Foul Use Manhole	
Public Combined Gravity Sewer		Cable, High Voltage			
Public Foul Gravity Sewer	++++++++	Cable, Other	•	Grease Trap	
Public Surface Water Gravity Sewer			+	Head Node	
Trunk Combined Gravity Sewer	B	Housing, Building	-	Hydrobrake	
Trunk Foul Use Gravity Sewer	K	Housing, Kiosk		Lamphole	
	DS	Disposal Site	~		
Combined Use Pressurised Sewer	STW	Sewage Treatment Works		Outfall	1.1
		Housing, Other		Overflow	
Surface Water Pressurised Sewer			-	Penstock	_
Highway Drain		Pipe Support Structure	۲	Petrol Interceptor	
Combined Lateral Drain (SS)		Sewage Pumping Facility	*	Sewer Blockage	
Foul Lateral Drain (SS)	\boxtimes	Sewer Facility Connection Inlet / Outlet	\$		
Surface Water Lateral Drain (SS)			W	Sewer Collapse	

REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX	MIN SIZE	GRADIENT	YEAR
SP14925051	84.40	nil	nil	S	VC	C	300	nil	1223	LAID
SP14925054	87.58	85.87	85.15	s	VC	c	300	nil	0.00	nill
SP14925082	nil	nil	nil	c	BR	c			0.00	nil
SP14925083	nil	83.75	nil	c	BR	c	2400	nil	0.00	nill
SP14925091	ni	nil	nil	-	BK	0	4200	nil	0.00	nill
				-	140		nil	nil	0.00	nil
SP14925104	89.76	87.84	85.31	E	VC	C	225	nil	23.88	nill
SP14925105	86.61	85.28	85.07	F	VC	C	225	nil	118.55	nill
SP14925106	86.78	85.04	84.79	F	VC	C	225	nil	96.32	nill
SP14925151	86.79	84.66	84.48	S	CO	C	375	nil	134.39	nill
SP14925152	86.71	85.03	84.68	S	CO	С	375	nil	85.77	nill
SP14925153	89.57	87.43	85.16	S	VC	С	225	nil	23.25	nill
SP14925301	94.79	93.08	92.32	F	VC	С	225	nil	95.79	nill
SP14925352	94.74	92.37	91.91	s	co	с	350	nil	128.60	nill
SP14925353	95.00	93.22	92.66	s	VC	c	225	nil	14.20	nill
SP14925354	94.08	92.84	92.41	s	VC	с	225	nil	104.65	nill
SP14925355	94.97	93.54	93.09	s	VC	c	150	nil	15.71	nill
SP14925356	94.61	93.08	92.86	s	VC	c	150	nil	34.64	nill
SP14926001	87.50	85.93	85.41	F	VC	c	225	nil	114.15	nill
SP14926005	88.07	86.89	85.94	F	VC	c	150	nil	56.44	nill
SP14926052	88.07	86.67	85.86	1		c				-
				S	VC		225	nil	114.49	nill
SP14926053	88.07	86.22	85.82	S	VC	C	225	nil	127.78	nill
SP14926101	89.79	88.27	87.91	F	VC	C	225	nit	195.36	nil
SP14926153	87.79	85.28	nil	S	VC	C	225	nil	0.00	nit
SP14926154	91.88	90.04	87.45	S	VC	С	225	nil	24.90	nil
SP14926181	nil	nil	nil	c	BR	с	2400	nil	0.00	nit
SP14926182	nil	nil	nil	С	BR	с	4200	nil	0.00	nill
SP14926251	93.12	91.40	nit	s	VC	с	150	nil	0.00	nill
SP14926252	92.12	nil	88.42	s	VC	с	150	nil	0.00	nill
SP14926351	91.11	90.47	90.35	s	VC	с	225	nil	493.08	nill
SP14926352	92.11	90.60	90.56	s	VC	c	225	nil	1026.25	nill
SP14926451	91.64	90.35	nil	s	VC	c	225	nil	0.00	nill
SP14926452	91.57	89.98	nil	s	co	c	900	nil	0.00	nill
SP14926455	nil	nil	nil	-	00	1				-
	87.55			F	100	C	nil	nil	0.00	nill
SP14927002		84.59	84.19		VC	C	225	nil	123.10	nill
SP14927051	88.82	87.13	86.31	S	VC	C	225	ni	72.57	nill
SP14927053	87.79	85.77	85.70	S	VC	С	225	nil	116.81	nill
SP14927054	88.01	85.68	85.22	S	VC	C	225	nil	125.83	nill
SP14927055	87.50	85.90	85.79	S	PVC	C	150	nil	164.36	nill
SP14927056	87.86	86.48	85.94	S	PVC	С	150	nil	56.50	nill
SP14927151	89.09	87.89	86.17	S	VC	C	225	nil	51.81	nill
SP14927181	189.00	nil	nil	С	BR	С	2400	nil	0.00	nil
SP14927182	nil	nil	nil	c	BR	С	4200	nil	0.00	nit
SP14927201	89.58	87.93	87.69	F	VC	с	225	nil	235.35	nil
SP14927204	88.67	87.68	87.36	F	VC	c	225	nil	226.31	nil
SP14928051	87.86	86.17	85.29	s	VC	c	300	nil	103.91	nill
SP14928052	86.96	85.25	84.34	s	VC	c	225	nil		nill
SP14928053	97.36	85.55	84.79	s		c			101.93	
	-				VC		225	nil	117.76	nill
SP14928151	nil	nil	nil	S	co	С	975	nil	0.00	nill
SP14928202	89.62	87.36	85.92	F	VC	C	225	nil	74.28	nill
SP14928251	89.09	87.43	87.40	S	BR	C	575	nil	929.67	nill
SP14928253	89.65	87.39	87.38	S	BR	C	580	nil	1552.00	nill
SP14928255	90.28	88.98	87.38	S	VC	C	150	nil	3.95	nill
SP14928256	89.65	nil	nil	-	-	-	nil	nil	0.00	nill
SP14928257	nil	nil	nil		_		nil	nil	0.00	nill
SP14928258	nii	nil	nil				nit	nit	0.00	nill
SP14928281	nil	nil	nil	с	BR	С	4200	nil	0.00	nill
SP14928351	89.85	88.96	88.86	s	VC	C	225	nil	198.50	nil
SP14928401	90.62	87.71	87.48	F	co	C	525	nil	249.70	nill
SP14928406	91.06	87.97	87.72	F	co	c	525	nil	220.60	nil
SP14928408	90.20	87.87	nil	F	VC	c	150	nil	0.00	nil
SP14928453	90.59	88.33	88.11	s	co	c	1200	nil	279.64	nill
SP14928455 SP14928455	91.11	88.60	88.38	s	co	c				-
and the second							1200	nil	224.43	nill
SP14928457	90.11	88.80	nil	S	CO	C	300	nil	0.00	nill
SP14929051	86.69	85.25	nil	S	VC	C	150	nil	0.00	nill
SP14929052	86.51	85.58	85.28	S	VC	С	150	nil	94.27	nill
SP14929201	87.28	85.92	nil	F	VC	c	225	nil	0.00	nill
SP14929252	92.83	91.50	89.04	S	VC	С	150	nil	42.93	nill
SP14929281	189.00	nil	nil	с	BR	C	2400	nil	0.00	nill
SP14929282	nil	nil	nil	С	BR	с	4200	nil	0.00	nill
SP14929301	89.67	87.06	87.05	F	со	с	525	nii	1421.00	nill
SP14929302	89.52	87.04	nil	F	co	с	525	nit	0.00	nill
SP14929303	nil	nil	85.60	F	со	с	525	nä	0.00	nil
SP14929303	nil	nil	nil	F	nil	nit	nil	nil	0.00	nill
SP14929311	89.74	87.42	87.19	F	VC	с	150	nil	40.09	nill
SP14929312	89.20	87.83	87.44	F	VC	c	150	nil	58.46	nil
SP14929313	89.64	87.19	87.14	F	VC	c	300	nil	184.40	nit
SP14929355	89.26			s						
		87.78	nil	-	00	c	975	nil	0.00	nil
SP14929355	89.26	87.24	nil	S	00	C	975	nil	0.00	nil
P14929356	89.65	87.81	87.77	S	CO	C	375	nil	230.50	nill
SP14929357	89.69	87.76	87.72	S	CO	С	1200	nil	282.75	nill
SP14929358	89.55	87.71	87.44	S	co	с	1200	nil	201.81	nill
P14929359	89.77	88.85	88.70	s	VC	c	300	nil	99.13	nill
P14929360	89.71	88.69	nil	s	со	с	300	nil	0.00	nill
P14929364	89.14	88.11	87.88	s	VC	с	225	nil	103.64	nill
P14929365	89.72	87.88	87.88	s	VC	c	300	nil	922.00	nill
P14929366	nil	85.58	nil	F	co	c	750	nil	0.72	nill
				-						
P14929403	89.14	88.21	87.84	F	VC	c	150	nil	71.11	nill
	89.12	88.37	88.22	F	VC	C	150	nil	66.00	nill
	00 00		107.07	F	CO	C	525	nil	224.00	nill
P14929404 P14929407 P14929410	90.23 89.32	87.44 87.39	87.07 87.19	F	VC	c	300	nil	231.15	nill

-	Sewer Chemical Injection Point	MAT
	Source Investige	AC
	Sewer Junction	BR
+	Sewerage Air Valve	сс
0	Sewerage Hatch Box Point	CI
	0	co
-	Sewerage Isolation Valve	CSB
~		CSU
Ø	Soakaway	DI
0	Conference Martine Martine In	GRC
0	Surface Water Manhole	MAC
	Vent Column	MAR
	Vent Goldmin	PE
		PF
	Waste Water Storage	PP
		PSC
	Culverted Watercourse	PVC
		RPM
	Pre-1937 Properties	SI
		XXX
		All Priva

TERIALS -ASBESTOS CEMENT - BRICK

- CONCRETE BOX CULVERT
- CAST IRON - CONCRETE
- CONCRETE SEGMENTS (BOLTED)
- CONCRETE SEGMENTS (UNBOLTED) - DUCTILE IRON
- GLASS REINFORCED CONCRETE
- MASONRY IN REGULAR COURSES
- MASONRY RANDOMLY COURSED
- POLYETHLENE
- PITCH - POLYPROPYLENE
- PLASTIC STEEL COMPOSITE
- POLYVINYL CHLORIDE
- REINFORCED PLASTIC MATRIX - SPUN (GREY) IRON
- OTHER

CATEGORIES

- W WEIR
- C CASCADE
- DB DAMBOARD
- SE SIDE ENTRY
- FV FLAP VALVE BD - BACK DROP

S - SIPHON HD - HIGHWAY DRAIN S104 - SECTION 104

- SHAPE
- CIRCULAR - EGG SHAPED

C

E

0

S

- OTHER - RECTANGLE - SQUARE
- T TRAPEZOIDAL U - UNKNOWN

TABULAR KEY

- A. Sewer pipe data refers to downstream sewer pipe. B. Where the node bifurcates (splits) X and Y indicates
- downstream sewer pipe.

PURPOSE

- C COMBINED E - FINAL EFFLUENT
- F FOUL
- L SLUDGE
- S SURFACE WATER

All Private Sewers are shown in magenta All section 104 sewers are shown in green All Sewers that have been transferred to Severn Trent Water after the 1[#] October 2011, but have not been surveyed and confirmed by Severn Frent Water are shown in orange

- C. Gradient is stated a 1 in...

Sewer Noo	de	Sewer Pipe Data										
REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX SIZE	MIN SIZE	GRADIENT	YEAR		
SP14929452	89.11	88.49	88.14	s	VC	с	150	nil	45.22	nill		
SP14929455	89.16	88.06	88.09	s	VG	с	150	nil	0.00	nill		
SP14929456	90.15	88.06	87.78	s	co	с	1200	nil	281.25	nill		
SP14929458	89.32	87.86	87.85	s	co	С	373	nil	320.00	nill		
SP14929459	89.40	87.85	87.83	s	co	c	375	nil	2171.00	nill		





× × × Abandoned Sewer	0 0 0	→ Cable, Earthing		Blind Shaft	-	Sewer Chemical Injection Point	MA	TERIALS	(ATEGORIES		TABULAR KEY	
Private Combined Gravity Sewer	>	Cable Junction		Combined Use Manhole		Sewer Junction	AC	-ASBESTOS CEMENT	w	- WEIR	А.	Sewer pipe data refers to downstream sewer pipe.	
Private Foul Gravity Sewer		Cable, Optical Fibre/Instrumentation	0	Flushing Chamber		Sewerage Air Valve	BR	- BRICK	С	- CASCADE	в.	Where the node bifurcates (splits) X and Y indicates downstream sewer pipe.	
Private Surface Water Gravity Sewer		Cable, Low Voltage		Foul Use Manhole		Sewerage Hatch Box Point	CC	- CONCRETE BOX CULVERT - CAST IRON	DB	- DAMBOARD - SIDE ENTRY	c.	Gradient is stated a 1 in	
Public Combined Gravity Sewer		Cable, High Voltage	•	Grease Trap			co	- CONCRETE	FV	- FLAP VALVE			
Public Foul Gravity Sewer	+++++++++++++++++++++++++++++++++++++++	Cable, Other			-	Sewerage Isolation Valve	CSB	- CONCRETE SEGMENTS (BOLTED) - CONCRETE SEGMENTS (UNBOLTED)	BD	- BACK DROP - SIPHON			
Public Surface Water Gravity Sewer	В	Housing, Building	+	Head Node	Ø	Soakaway	DI	- DUCTILE IRON	HD	- HIGHWAY DRAIN			W-
Trunk Combined Gravity Sewer	K	Housing, Kiosk	_	Hydrobrake	0	Surface Water Manhole	GRC MAC	- GLASS REINFORCED CONCRETE - MASONRY IN REGULAR COURSES	S104		DI	URPOSE	vv
Trunk Foul Use Gravity Sewer	DS	Disposal Site		Lamphole		Vent Column	MAR	- MASONRY RANDOMLY COURSED	с	- CIRCULAR	с	- COMBINED	
			-	Outfall			PE	- POLYETHLENE - PITCH	E	- EGG SHAPED - OTHER	E	- FINAL EFFLUENT - FOUL	
Combined Use Pressurised Sewer	STW	Sewage Treatment Works		Overflow		Waste Water Storage	PP	- POLYPROPYLENE	R	- RECTANGLE	L	- SLUDGE	
— → Surface Water Pressurised Sewer		Housing, Other	_	Penstock		Culverted Watercourse	PSC	- PLASTIC STEEL COMPOSITE - POLYVINYL CHLORIDE	S T	- SQUARE - TRAPEZOIDAL	S	- SURFACE WATER	
— — — Highway Drain	$\overline{\mathbf{A}}$	Pipe Support Structure	۲	Petrol Interceptor	-++++	++ Pre-1937 Properties	RPM SI	- REINFORCED PLASTIC MATRIX - SPUN (GREY) IRON	U	- UNKNOWN			
Combined Lateral Drain (SS)		Sewage Pumping Facility	*	Sewer Blockage			xxx	- OTHER					
 Foul Lateral Drain (SS) Surface Water Lateral Drain (SS) 	\boxtimes	Sewer Facility Connection Inlet / Outlet	¥	Sewer Collapse			All sec	rate Sewers are shown in magenta tion 104 sewers are shown in green wers that have been transferred to Sever	m Trent V	Nater after the 1 st October 2/	11 but	t have not been surveyed and confirmed by Severn	

REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX	MIN SIZE	GRADIENT	YEAR
SP15925502	87.14	85.40	85.08	F	VC	c	225	nil	221.70	nil
SP15925504	87.12	85.29	84.69	F	VC	c	225	nil	130.52	nill
SP15925505	87.06	85.06	84.93	F	VC	c	225	nil	160.92	nil
SP15925553	87.10	85.00	84.04	s	VC	с	225	nil	82.61	nil
SP15925556	87.01	83.86	83.71	s	co	c	450	nil	149.80	nill
SP15925557	87.05	84.57	83.66	s	co	с	450	nil	116.92	nill
SP15925601	87.05	85.45	85.42	F	VC	с	225	nil	801.33	nill
SP15925603	86.96	85.55	85.46	F	VC	c	225	nil	288.44	nill
SP15925605	86.86	85.90	85.57	F	VC	с	225	nil	157.24	nill
SP15925606	87.20	85.91	85.90	F	VC	c	225	nil	2433.00	nill
SP15925607	nil	nil	85.66	F	VC	c	225	nil	0.00	nill
SP15925651	87.25	85.04	nil	s	VC	с	150	nil	0.00	nill
SP15925652	86.96	84.74	84.73	s	co	c	450	nil	2530.00	nill
SP15925654	86.85	85.13	84.82	s	VC	с	300	nil	155.81	nill
SP15925657	87.24	85.43	85.15	s	VC	с	300	nil	175.57	nill
SP15925658	87.06	84.71	84.59	s	co	c	450	nil	111.17	nill
SP15925702	87.50	86.27	85.94	F	VC	c	225	nil	169.82	nill
SP15925703	87.36	86.28	86.28	F	VC	c	225	nil	0.00	nill
SP15925705	87.28	86.29	86.28	F	VC	C	225	nil	0.00	nill
SP15925707	87.34	86.54	86.30	F	VC	c	150	nil	34.29	nill
SP15925708	87.56	86.63	86.55	F	VC	c	150	nil	97.63	nill
SP15925751	87.47	85.80	85.50	s	VC	c	225	nil	190.03	nill
SP15925754	87.32	85.87	85.80	s	VC	c	225	nil	281.43	nill
SP15925756	87.30	86.07	nil	s	VC	c	150	nil	0.00	nill
SP15925759	87.66	86.35	86.08	s	VC	c	150	nil	43.19	nit
SP15925851	87.13	86.14	85.87	s	VC	c	225	nil	206.52	nil
SP15926601	86.52	85.18	84.52	F	VC	c	225	nil	160.87	nit
SP15926653	86.47	85.15	84.86	s	VC	c	225	nil	268.38	nill
SP15926654	86.64	85.32	85.31	s	VC	c	225	nil	1655.00	nil
SP15926655	86.74	85.36	85.32	s	VC	c	225	nil	436.50	nill
SP15926656	86.73	85.66	85.39	s	VC	с	225	nil	8.30	nill
SP15926751	86.31	85.78	85.26	s	VC	c	300	nil	50.04	nill
SP15927502	86.12	84.50	83.82	F	VC	c	225	nil	203.53	nill
SP15927551	85.95	84.51	nil	s	VC	c	225	nil	0.00	nill
SP15927553	86.07	84.84	84.57	s	VC	с	225	nil	102.70	nill
SP15927601	86.71	nil	84.92	F	VC	с	150	nil	0.00	nill
SP15927751	86.60	85.26	nil	s	VC	С	300	nii	0.00	nill
SP15927752	nil	nil	84.97	s	VC	с	300	nil	0.00	nill
SP15928501	85.83	84.23	84.22	F	VC	С	225	nil	7692.00	nill
SP15928554	nil	nìl	nil	s	VC	С	225	nit	0.00	nill
SP15928555	nil	nil	nil	s	VC	С	225	nil	0.00	nill
SP15928601	86.49	84.89	84.70	F	VC	C	225	nil	85.15	nill
SP15928602	86.45	84.70	84.45	F	VC	c	225	nil	328.13	nill
SP15928752	86.20	84.83	84.64	s	VC	c	300	nil	133.26	nill

All Sewers that have been transferred to Severn Trent Water after the 1st October 2011, but have not been surveyed and confirmed by Severn Trent Water are shown in orange





- Foul Lateral Drain (SS)
- --- --- Surface Water Lateral Drain (SS)

 \boxtimes

Sewer Facility Connection Inlet / Outlet

- ☆ Sewer Collapse

Sewer Node		Sewer Pipe Data							-	
REFERENCE	COVER LEVEL	INV LEVEL UPSTR	INV LEVEL DOWNSTR	PURP	MATL	SHAPE	MAX SIZE	MIN SIZE	GRADIENT	YEAR
SP15920502	88.36	86.94	86.58	F	VC	с	150	nil	96.75	nill
SP15920504	88.42	87.61	87.08	F	VC	с	150	nil	6.81	nill
SP15920551	89.96	88.56	88.20	s	VC	C	225	nil	117.46	nill
SP15920553	88.43	87.25	87.10	s	VC	С	300	nil	261.33	nill
SP15920555	88.31	87.22	87.19	s	U	c	300	nil	1167.50	nill
SP15921508	88.09	87.01	86.56	F	VC	c	150	nil	41.43	nill
SP15921509	88.10	86.57	86.55	F	VC	с	150	nil	721.00	nill
SP15921511	88.12	87.19	86.69	F	VC	c	150	nil	4.46	nill
SP15921513	88.08	86.52	86.34	F	VC	c	150	nit	76.43	nill
SP15921514	88.11	86.33	86.18	F	VC	c	150	nil	72.13	nill
SP15921514	88.11	87.25	87.06	F	VC	c	150	nil	18.23	nill
SP15921516	88.24	86.17	86.06	F	VC	c	150	nil	79.35	nit
SP15921518	88.64	87.52	86.20	F	VC	c	150	nil	4.68	nill
SP15921551	88.47	86.97	86.77	s	co	c	525	nil	386.70	nill
SP15921552	88.37	nil	86.60	s	co	c	525	nil	0.00	nil
SP15921553	88.10	86.74	nil	s	co	c	525	nil	0.00	nit
SP15921555	88.48	87.07	nil	s	U	c	400	nil	0.00	nil
SP15921556	88.40	87.18	87.13	S	U	c	300			-
SP15921557	88.10	87.11	86.94	s	VC	c	225	nil	134.33	nill
SP15921557 SP15921560	88.10	87.03	86.94	s	VC	c	225	nil	171.82	nill
SP15921562	88.08	86.85		s	U	c	-		277.09	nill
SP15921651	88.70		nil	-			300	nii	0.00	nill
		86.76	nil	S	VC	C	300	nil	0.00	nill
SP15922551	88.14	86.57	nil	S	U	C	525	nil	0.00	nill
SP15922552	88.50	86.52	86.12	S	CO	C	525	nil	110.00	nill
SP15922553	88.24	86.64	86.63	S	VC	С	400	nil	1118.00	nill
SP15922554	88.11	nil	86.68	S	VC	C	300	nî	0.00	nill
SP15922555	88.81	86.75	86.60	S	VC	C	450	nił	181.33	nill
SP15922556	88.70	nil	86.72	S	VC	C	375	nil	0.00	nill
SP15922557	87.22	nil	86.72	S	VC	C	375	nil	0.00	nill
SP15922558	89.30	86.69	86.54	S	co	C	525	lin	20.00	nill
SP15922651	88.76	86.84	86.76	S	co	C	450	nil	267.50	nill
SP15923551	88.31	85.43	86.19	S	co	C	450	nil	155.13	nill
SP15923559	nil	nii	86.45	S	CO	C	600	nil	0.00	nili
SP15924502	nil	nil	86.56	F	VC	C	225	nil	0.00	nill
SP15924552	87.57	86.19	nil	S	co	C	450	nil	0.00	nill
SP15924555	87.54	86.29	85.78	S	VC	C	225	nil	108.47	nil
SP15924556	87.45	86.38	86.31	S	VC	С	225	nil	223.57	nil
SP15924557	87.40	85.55	84.71	S	VC	C	225	nil	81.76	nîl
SP15924559	87.39	85.65	85.51	S	VC	c	150	nil	73.57	nit
SP15924560	87.33	85.50	tin	S	VC	с	150	nil	0.00	nill
SP15924603	87.65	86.39	nil	F	VC	с	225	nil	0.00	nill
SP15924604	87.38	nil	nil	F	VC	с	225	nil	0.00	nill
SP15924605	87.69	86.50	86.43	F	VC	с	150	nil	218.57	nill
SP15924651	87.38	85.59	85.08	S	VC	c	225	nil	42.58	nill
SP15924652	86.94	85.08	84.88	s	VC	с	300	nil	146.05	nill
SP15924654	87.66	85.93	85.62	s	VC	c	150	nil	35.33	nill
SP15924655	87.24	85.76	85.70	s	VC	с	150	nit	258.67	nill
SP15924656	87.26	85.82	85.76	s	VC	с	150	nii	197.00	nili
SP15924657	87.55	86.40	86.28	s	VC	с	150	nil	175.38	nill
SP15924658	87.88	86.26	85.60	s	VC	с	225	nil	55.56	nill
SP15924659	87.54	86.47	85.61	s	VC	с	150	nil	54.77	nill
SP15924660	87.65	86.61	86.53	s	VC	с	150	nil	97.63	nill
SP15924756	87.69	86.11	85.97	s	VC	c	150	nil	134.21	nil

-	Sewer Chemical Injection Point	MATERIALS		CATEGORIES		TABULAR KEY		
	Sewer Junction	AC	-ASBESTOS CEMENT	w	- WEIR	A.	Sewer pipe data refers to downstream sewer pipe,	
	Sewer Sunction	BR	- BRICK	С	- CASCADE	в.	Where the node bifurcates (splits) X and Y indicates	
+	Sewerage Air Valve						downstream sewer pipe.	
		CC	- CONCRETE BOX CULVERT	DB	- DAMBOARD	C.	Gradient is stated a 1 in	
1	Sewerage Hatch Box Point	CI	- CAST IRON	SE	- SIDE ENTRY			
		co	- CONCRETE	FV	- FLAP VALVE			
 Sewerage Isolation Valve 		CSB	- CONCRETE SEGMENTS (BOLTED)	BD	- BACK DROP			
•		CSU	- CONCRETE SEGMENTS (UNBOLTED)	s	- SIPHON			
	Soakaway	DI	- DUCTILE IRON	HD	- HIGHWAY DRAIN			TTT
	La surviva de la	GRC	- GLASS REINFORCED CONCRETE	S104	- SECTION 104			$W \leq 1$
0	Surface Water Manhole		MAC - MASONRY IN REGULAR COURSES		SHAPE		URPOSE	1
	Vent Column	MAR	- MASONRY RANDOMLY COURSED	С	- CIRCULAR	С	- COMBINED	
	Vent Column	PE	- POLYETHLENE	E	- EGG SHAPED	E	- FINAL EFFLUENT	
		PF	- PITCH	0	- OTHER	F	- FOUL	
	Waste Water Storage	PP	- POLYPROPYLENE	R	- RECTANGLE	L	- SLUDGE	
-		PSC	- PLASTIC STEEL COMPOSITE	S	- SQUARE	s	- SURFACE WATER	
	Culverted Watercourse	PVC	- POLYVINYL CHLORIDE	т	- TRAPEZOIDAL			
		RPM	- REINFORCED PLASTIC MATRIX	U	- UNKNOWN			
++++	Pre-1937 Properties	SI	- SPUN (GREY) IRON					
		XXX	- OTHER					
		All Priv	ate Sewers are shown in magenta					

All section 104 sewers are shown in green All Sewers that have been transferred to Severn Trent Water after the 1st October 2011, but have not been surveyed and confirmed by Severn Water are shown in orange





The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the 'Affected Postcodes.pdf', which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan.

This plan is produced by Virgin Media Limited from Ordnance Survey © Crown Copyright 100019209

Duct, Trench Chambe









This plan is produced by Virgin Media Limited from Ordnance Survey © Crown Copyright 100019209

Rathore, Neha

From: Sent: To: Subject: Attachments: Jamadar, Arif Friday, April 11, 2014 3:59 PM Statutory Enquiries RE: Urgent:PLANT ENQUIRY:- 30584/NVS, Minworth Island, near Sutton Coldfield Minworth Island.pdf; Data Key + Special Requirements.pdf

This response is made only in respect to electronic communications apparatus forming part of the Vodafone: Fixed electronic communications network formerly being part of the electronic communications networks of Cable & Wireless UK, Energis Communications Limited, Thus Group Holdings Plc and Your Communications Limited.

Please accept this email as confirmation that Vodafone: Fixed <u>does</u> have apparatus within the vicinity of your proposed works detailed below.

And according to our records we have leased network within your proposed works boundary. However, because the plant is leased we do not hold 'As Built' records. Therefore, we recommend you contact all other utility providers to gather the extent of services within that area.

Please see attached network information.

Many thanks.

Plant Enquiries Team T: 01454 662881 E: osm.enquiries@atkinsglobal.com



ATKINS working on behalf of Vodafone



IMPORTANT - PLEASE READ:

Diversionary works may be necessary if the existing line of the highway/railway or it's levels are altered, where apparatus is affected. Where apparatus is affected. Where apparatus is affected. Where apparatus is affected and requires diversion, you must submit draft details of the proposed scheme with a request for a <u>'C3 Budget Estimate'</u> to osm.enquiries@atkinsglobal.com Once your C3 request has been received, it will be submitted to Vodafone. These estimates should be provided by Vodafone normally within 20 working days from receipt of your request. Please include proof of this C2 response when requesting a C3 (using the 'forward' option).

PLEASE NOTE:

The information given is indicative only. No warranty is made as to its accuracy. This information must not be solely relied upon in the event of excavation or other works carried out in the vicinity of Vodafone plant. No liability of any kind whatsoever is accepted by Vodafone, its servants, or agents, for any error or omission in respect of information contained on this information. The actual position of underground services must be verified and established on site before any mechanical plant is used. Authorities and contractors will be held liable for the full cost of repairs to Vodafone's apparatus and all claims made against them by Third parties as a result of any interference or damage.

From: Shankar, Naveen On Behalf Of Statutory Enquiries
Sent: Friday, April 11, 2014 12:06 PM
To: National Plant Enquiry's; 'Easynet'; 'Environment agn'; 'Interoute'; 'McNic'; 'Global Crosing New'; 'Networkrail'; 'Telenttelia.Plantenquiries@telent.com'; 'verizonbusiness'; 'plantenquiries@energetics-uk.com';

'plantenquiries@cityfibreholdings.com'; 'plantenquiries@catelecomuk.com'; <u>streetlighting@birmingham.gov.uk;</u> <u>contact@birmingham.gov.uk;</u> <u>BHMEnquiries@amey.co.uk;</u> <u>martyn.parker@birmingham.gov.uk;</u> <u>NRSWA@cofely-gdfsuez.com;</u> <u>plantenquiries@trafficmaster.co.uk</u> **Subject:** Urgent:PLANT ENQUIRY:- 30584/NVS, Minworth Island, near Sutton Coldfield **Importance:** High

Urgent- It would be greatly appreciated if you could reply ASAP, where possible by 15.04.14 . Thanks in advance.

To whom it may concern,

Please reply to this Email id: - AtkinsStatutory.Enquiries@atkinsglobal.com;

McNicholas - Please reply for KPN & TATA.

30584/NVS, Minworth Island, near Sutton Coldfield , 415393,292589 , B76 9RQ

Works Description- design

Reply required by date - 15.04.14

Please find attached a plant enquiry with corresponding map for your attention. Please could you send us plans showing the location of your company's affected plant to the below address quoting our reference number and the name of the scheme shown above.

Please cover the <u>entire area</u> shown in the boundary on the attached map not just the arrow, this is just an indicator of the middle of the site

If you do not have any apparatus in this area, please could you send written confirmation to declare that no apparatus is affected.

Many thanks,

Please don't hesitate to contact me with any questions.

Thanks and Regards,

Naveen Shankar M.R

Coordinator, Communications-Network Services

ATKINS

Find out more about what we do and how we do it - <u>www.atkinsglobal.com</u>

The hub, 500 Park Avenue, Aztec West, Almondsbury, Bristol, BS32 4RZ | Tel: 01454 663130 & 01454 663222 |

please consider the environment - do you really need to print this email?





Vodafone Network Colour:

	Ex-Cable&Wireless UK Network (now Vodafone)
	Planned & Approved Route
	Planned Route – Awaiting Approval
	Other Licensed Operator (OLO)
	Ex-Thus Network (now Vodafone)
	Ex-Energis Network (now Vodafone)
	OLO
Other:	
	Overhead Electricity Line (non Vodafone)
	Network Rail

Other Licensed Operator (OLO).

= Ex-Cable&Wireless UK, Energis and Thus fibre-optic cable within an OLO duct. Please contact all other operators for further details of their apparatus within that area.

Fibre Services Special Requirements relating to the External Plant Network of Vodafone

Contents

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2.	Purpose of document
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16.	About this Document

1. Introduction

This document sets out the procedure that will apply when Other Parties intend or are undertaking works in the vicinity of Vodafone apparatus.

2. Purpose of document

This document provides a means by which the Vodafone specific special requirements relating to their apparatus, regardless of it being situated in the public highway / road, private street, land or any other areas, is made aware to Other Parties.



Page 1 of 9

3. Scope

This document will be presented to Other Parties or Contractors to encourage those undertaking works within the vicinity of Vodafone apparatus to refer to and comply with. This is in order to protect where necessary the Vodafone apparatus and to avoid damage to the apparatus and loss of service.

A National Joint Utilities Group (NJUG) document NJUG 9 titled "Recommendations for the Exchange of Records of Apparatus between Utilities" provides useful reference material.

It should be noted that, where appropriate, additional information on avoiding danger from underground apparatus is contained within the HSG47 guidance book titled "Avoiding Danger from Underground Services."

4. Vodafone Network and Apparatus

Damage to Vodafone apparatus is extremely disruptive and can be expensive to repair, especially where long lengths of cable have to be replaced.

In order to maintain the network integrity and minimise disruption to service, it is essential that disturbances are absolutely minimal. When working within the vicinity of Vodafone apparatus, extreme care is necessary in order to avoid costly repairs. The Other Parties / Contractor shall make every effort to ensure that disturbance of Vodafone apparatus is no more than is absolutely necessary for the completion of the works in accordance with their contract.

5. Plant records

It is the responsibility of the Other Parties undertaking works which may affect Vodafone apparatus to obtain all relevant Vodafone plant records from our agent Atkins Global prior to works commencing. This may be done by contacting the Atkins Global Plant Enquiries Team listed in Appendix B.

Plant records for such enquiries will generally be provided within 10 working days of receipt and in compliance with the New Roads and Street Works Act 1991 [NRSWA] requirements. If Vodafone plant is affected, the response will contain reference to this document. Other Parties and Contractors are advised to refer to the National Joint Utilities Group [NJUG] 9 Document which outlines recommendations for the exchange of records of apparatus between utilities.

6. Definitions

The following definitions are applicable in this document:

- a) Apparatus means all electronic communications apparatus above surface, at the surface or sub-surface apparatus, Cable, Jointing Chamber and plant formerly being apparatus owned or used by the Code Operators Cable & Wireless UK, Energis Communications Limited, Thus Group Holdings Plc and Your Communications Limited including any associated cables or ducts owned, leased or rented by the said Code Operators now owned and used by the Code Operator Vodafone Limited ("Vodafone").
- b) Cable means any polythene or other sheath containing optical fibres or metallic conductors.
- c) **Depth of cover** means the depth from the surface to the topmost barrel of the duct nest, in the case of ducts encased in concrete, to the top of the concrete, and in the case of directly buried cable, the top of the cable.
- d) **Jointing chamber** means any manhole, surface box or other chamber giving access to Vodafone apparatus or their network.
- e) Utility means an organisation licensed to provide gas, water, electricity, Cable TV or telecommunications services.
- f) **Developer** means an organisation licensed to develop industrial/residential premises or given license to connect to utility apparatus.



Fibre Services Special Requirements relating to the External Plant Network of Vodafone

- g) **Contractor** means the individual, firm or company contracted to undertake the work for a Utility or Other Parties.
- h) **Other Parties** means the Utilities, Highway Authorities, Developers, Street Authority (Roads Authority Scotland).
- i) Site means the location of, or in the vicinity of, the various works.

7. Requirements

Prior to commencing any work or moving heavy plant or equipment over any portion of the site, the Other Parties or Contractor shall notify Vodafone of their intentions. This may be done by contacting Atkins Global, contact listed in Appendix B.

Upon receipt of this notification, Atkins Global will identify if Vodafone apparatus is affected. If any Vodafone apparatus is affected by the works then Atkins Global will provide necessary records and confirm details of Vodafone apparatus and network operated within the affected area or adjacent to the proposed work site.

7.1 Location of Plant

It is the responsibility of the Other Parties or Contractors to undertake adequate plant location procedures. These may include searches for metallic cables which must be performed by actively inducing a signal in a cable conductor via a transmitter. A passive search is not considered sufficient.

Before applying a tracing signal to the Vodafone apparatus, the Other Parties or Contractors shall seek confirmation from Atkins Global that the Vodafone apparatus will not suffer any disruption to its networks normal workings as a result of the nature of the signal being induced.

7.2 Trial excavations

Optic fibre cables are very susceptible to damage from excavation tools. They are not electrically conductive and cannot be located by radio induction methods. Once an approximate location is known, the exact location must be ascertained by means of hand dug pilot holes. Where the work to be carried out by the Other Party or Contractor involves excavation in the vicinity of our apparatus, the Other Party or Contractor shall, by trial excavation at his own expense, determine the exact location and depth of the Cable& Wireless Worldwide apparatus. All excavations adjacent to the Vodafone apparatus are to be carried out by hand until the extent and /or location of the apparatus is known.

All excavation work shall be executed in accordance with the current issue of Health and Safety series booklet HSG47, Avoiding danger from underground services.

8. Depths of cover

The Other Party or Contractor should note that the minimum depths of cover for Vodafone apparatus shall be maintained together with specified separation requirements. Where the minimum depths of cover specified by Vodafone cannot be maintained, the Other Party or Contractor shall at their own expense, carry out the instructions of Vodafone requirements for the protection or diversion of their apparatus.

The Other Party or Contractor should have particular regard to the possibility of encountering Vodafone apparatus (including ducts and cables), at depths of cover other than that reported.

Surface cables (such as cables on bridges or walls) which are liable to be placed in danger from the Other Parties or Contractors works shall be protected, at the Other Parties expense, as directed by the Vodafone representative.

9. Separation

Reference should be made to HSG47 to ensure that adequate separation is achieved. The following details outline the specific requirements of Vodafone and capture the HSG47 requirements.



Fibre Services Special Requirements relating to the External Plant Network of Vodafone

9.1 High voltage cables

High voltage single core cables of 1000 V and above shall have a minimum clearance from Company Apparatus of 500 mm.

High voltage multi-core cables of 1000 V and above shall have a minimum clearance from Company Apparatus of 350 mm.

In exceptional circumstances where the above clearances cannot be maintained, the separating distance may be reduced to a minimum of 175 mm. In such circumstances, concrete, of a quality as directed by the Company Representative, must be inserted to completely fill the space between the High Voltage cable and the Company Apparatus, in accordance with the requirements of the Company Representative. Any further services must have a minimum clearance of 250 mm from the concrete.

9.2 Low voltage cables

Low voltage cables of less than 1000 V shall have a minimum clearance from Company Apparatus of 180 mm. In exceptional circumstances where the above clearance cannot be maintained, the separating distance may be reduced to a minimum of 75 mm. In such circumstances, concrete, of a quality as directed by the Company Representative, must be inserted to completely fill the space between the services, in accordance with the requirements of the Company Representative. Any further services must have a minimum clearance of 250 mm from the concrete.

9.3 Ancillary electrical apparatus

Lamp posts, traffic posts and other such ancillary electrical apparatus shall have a minimum clearance of 150 mm from underground Company Apparatus and 600mm clearance from above ground Company Apparatus.

9.4 High pressure gas mains and other Undertakers plant/equipment

High pressure gas mains shall have a minimum clearance of 450 mm from Company Apparatus. All other undertakers' plant and equipment, when running in parallel with Company Apparatus, shall have a minimum clearance of 200mm. Where gas mains cross Company Apparatus, the minimum clearance shall be 200mm. All other undertakers' plant and equipment, when running across Company Apparatus, shall have a minimum clearance of 100 mm.

9.5 Other Undertakers plant

Other undertakers' plant and equipment which runs in parallel with Company Apparatus shall have a minimum clearance of 200mm. All other undertakers' plant and equipment when running across Company Apparatus shall have a minimum clearance of 100mm.

9.6 Tramways

Each separating distance shall be individually agreed with the Company Representative.



10. Jointing chambers

10.1 Protection

Footway type jointing chambers are not designed to withstand carriageway loadings.

Where such chambers are liable to be placed at risk, either temporarily or permanently, from vehicular traffic or from the movement of plant and/or equipment, they will need to be adequately protected. Alternatively, they may have to be demolished and rebuilt to carriageway standards, at the Other Parties or Contractors expense under supervision of Vodafone representative.

All Vodafone jointing chambers and / or other access points shall be kept clear and unobstructed. Access for vehicles, winches, cable drums and / or any further equipment required by Vodafone for the maintenance of its apparatus, must be maintained at all reasonable times.

10.2 Access

The covers to Vodafone jointing chambers and / or apparatus shall only be lifted by means of the appropriate keys and under the direct supervision of a Cable& Wireless Worldwide representative. Other Parties or Contractors shall not enter any Vodafone jointing chamber and / or apparatus unless under the supervision of a Vodafone representative and in any case not before the mandatory gas test has been carried out in the presence of Vodafone representative and such checks have shown it to be safe to enter the Vodafone chamber and / or apparatus. The Other Parties or Contractors shall be given reasonable access to Vodafone apparatus and chambers when required.

11. Notification periods

Where the Other Parties or Contractors works or the movement of plant or equipment may endanger Vodafone apparatus, the Other Party or Contractor shall give the Vodafone agent Atkins Global [as indicated at Appendix B] **at** least 7 working days notice in writing of the intended date to commence operations.

No excavation should be made without first consulting the relevant Vodafone apparatus layout drawings, which will be made available from the Vodafone agent Atkins Global on request and allowing 28 working days for processing the relevant drawings. However, should this not be possible, direct contact should be made to the Atkins Global Bristol Plant Enquiries Team as soon as possible to assess the situation.

When excavating, moving or backfilling (including use of Foamed Concrete for Reinstatements – FCR) around Vodafone apparatus, Atkins Global (as agent for Vodafone) shall be given adequate prior written notice of the Other Parties or Contractors intentions, in order that the works may be adequately supervised. Such notice shall not be less than 3 working days.

12. Excavation and backfill

All excavations adjacent to Vodafone apparatus are to be carried out by hand until the extent and or location of the Vodafone apparatus is known.

Use of mechanical borers and / or excavators shall not be used without the supervisory presence of a Vodafone representative or a given exemption.

Shuttering of the excavation or support to Vodafone apparatus, at the Other Parties or Contractors expense, shall be used as directed by the Vodafone representative.

At least 7 working days notice must be given to Vodafone in order that any special protective measures which may be required to protect Vodafone apparatus, at the Other Parties or Contractors expense, when equipment such as pile driving, explosives, laser cutting high powered RF equipment or RF test gear, is to be used in conjunction with the works.

Other Parties or Contractors are advised to refer to the National Joint Utilities Group [NJUG] 4 Document which outlines the identification of small buried mains and services.



13. Foam concrete

If foam concrete is being used as the backfill material, it shall not be used either above or within 500 mm of any Company Apparatus. A suitable material in accordance with the specification for the Reinstatement of Openings in Highways shall be substituted.

14. Attendance of Company Representative

If a situation requires the attendance on site of a Vodafone representative for a continuous period of more than 6 hours, suitable facilities shall be provided by the Other Party or Contractor, at their expense, to meet the office and ablution requirements.

15. Damage reports

In the event of any damage whatsoever occurring to Vodafone apparatus, the Other Party or Contractor shall immediately inform Vodafone by contacting Julia Burgoyne, (for contact details please refer to Appendix B).

All relevant costs of any subsequent repair and / or removal of the Vodafone apparatus shall be charged to the Other Party or Contractor, irrespective of who affects the repair.

The above requirements do not relieve the Other Party or Contractor of any of their obligations under their contract.



Appendix A - office address details

Glasgow Office

Vodafone Pavillion 1 1 - 2 Berkeley Square 99 Berkeley Street Glasgow G3 7HR

Bristol Office

Vodafone Unit 1, Tamar Road St Philips Bristol BS2 OTY

Manchester Office

Vodafone Unit M Atlas Business Park Wythenshawe Manchester M22 5RR



Appendix B – Street Works Team Contacts for Vodafone

Function	Name	Job Title	Address	Phone	Mobile	Fax	Email Address
Co-ordination	Sandra Semple	National Street Works Manager	Glasgow Office (see above)	0141 303 2857	07775 792133	0141 300 9611	sandra.semple@cw.com
Customer Complaints	СМС	Customer Management Centre	n/a	08456 021585	n/a	n/a	n/a
Liability Claims	Julia Burgoyne	Major Incident Resolution Coordinator	Bristol Office (see above)	01454 895114	07803 259857	n/a	julia.burgoyne@cw.com
Diversionary Works	Samantha Wilkinson	C3 Diversionary Works Project Controller	Manchester Office (see above)	0161 423 2740	n/a	n/a	samantha.wilkinson@cw.com
Emergencies (24 Hour)	СМС	Customer Management Centre	n/a	08456 021585	n/a	n/a	n/a
Plant Enquiries- Including Thus Plc, (formerly Scottish Telecom), Your Comms (formerly Norweb), Energis & Mercury Communications	Plant Enquiries Team	n/a	Atkins Global PO Box 290 500 Aztec West, Almondsbury, Bristol, BS32 4RZ	01454 662881	n/a	01454 663330	Osm.Enquiries@atkinsglobal.com



16. About this Document

Content Owner

Price, David J

Changes since last version

Reformatted using the current Vodafone template.

End of Document

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Serving the Midlands, South West and Wales	Site Location	O Service O LV HV (11kV)			Pole Mounted Transformer			
Contact Us	Line/Area				Ground Mounted			
Mapping Enquiries:All areas0121 623 9780	* Advice should be	★ ⊠ HV (132kV		Earth Earth	Transformer any work that is to take place			
General Enquiries: Midlands 0845 724 0240			s and 132kV overhead line		any work that is to take place			
South Wales 0845 601 3341								
South West 0845 601 2989 Date Requested: 14/01/2014	 Cables, overhead 		de only. Services or recented by other electricity networks and the sectoricity of the sector of the		rk may not be shown. ompanies may be present but			
Job Reference: 1525462	will not be shown.You should alway	s verify exact locations of	of cables using a cable lo	cator and by careful use	e of hand tools in accordance			
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Mr Alexander Prosser Your Scheme/Reference:			tricity cables or lines, call					
Minworth Rbt Options	Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA East Mids 0800 056 8090 West Mids 0800 328 1111 South Wales 0800 052 0400 South West 0800 365 900							
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