

VERIFIED TECHNOLOGIES FOR DRINKING WATER SYSTEMS
APRIL 2024

W500D

For all inquiries and verification requests please email Infrastructure.Standards@Barrie.ca

VERIFICATION CRITERIA						
PRODUCT	MATERIAL TYPE	INDUSTRY STANDARD(S)*	CITY OF BARRIE REQUIREMENTS	MANUFACTURER	CATALOGUE #/IDENTIFIER	COMMENTS
PIPE						
Watermain up to and including 300mm diameter	Ductile Iron with Polyethylene Encasement	Class 52 AWWA C104 AWWA C111/A21.11 AWWA C150 AWWA C151 AWWA C105 ANSI A21.5	6 metres in length, Push-on Joint Pipe rounding per manufacturers specifications	U.S. Pipe	Tyton® Joint Pipe	
				Canada Pipe Company ULC	Tyton® Joint Pipe	
				Atlantic States	Tyton® Joint Pipe	
				Clow Water Systems	Tyton® Joint Pipe	
				Pacific States	Tyton® Joint Pipe	
				Griffin Pipe Products	Tyton® Joint Pipe	
	McWane Ductile/Canada Pipe	TR Flex				
	Ductile Iron with Zinc/Epoxy & Polyethylene Encasement	Class 52 AWWA C104 AWWA C111/A21.11 AWWA C150 AWWA C151 AWWA C105 ANSI A21.5	6 metres in length, Push-on Joint Pipe rounding per manufacturers specifications	Electrosteel USA	Nublu	
Polyvinyl Chloride (PVC)	Class 150, SDR 18 AWWA C900 CSA B137.3	Push-on Joint, Colour Coded "blue", 6.1 metres in length	IPEX	Blue Brute	Factory Capped	
			Westlake Pipe & Fittings	CIOD PVC P.P.		
			JM Eagle	Blue Brute CSA		
			Diamond Plastics Corp.	C900CSA		
			National Pipe Inc.	Dura-Blue		
Molecularly Oriented Polyvinyl Chloride (PVCo)	AWWA C909 CSA B137.3.1	Push-on Joint, Colour Coded "blue", 6.1 metres in length	IPEX	Bionax	Factory Capped	
			Westlake Pipe & Fittings	Aquamax		
Watermain 400mm Diameter	Polyvinyl Chloride (PVC), DR18	Class 150, SDR 18 AWWA C905 CSA B137.3	Push-on Joint, Colour Coded "blue", 6.1 metres in length	IPEC	Centurion	
				Westlake Pipe & Fittings	CIOD PVC P.P.	
				Diamond Plastics Corp.	C900	
Watermain 400mm diameter and larger	Fibreglass Reinforced Pipe	AWWA C950 NSF-61 AWWA M45 Manual		Thompson Pipe Group/Corix Water Products	Flowtite FRP Pipe	
	Prestressed Concrete Pressure Pipe 500mm and larger	AWWA C301 AWWA C304	Push-on Joints (deep joints)	Decast	E-301, L-301	Mortar Collar Diaper required at all joints, performance bedding required
				Forterra		
	Ductile Iron with Polyethylene Encasement	AWWA C104 AWWA C115 AWWA C150 AWWA C151	6 metres in length, Push-on Joint Pipe rounding per manufacturers specifications	U.S. Pipe	Tyton® Joint Pipe	
				Canada Pipe Company ULC	Tyton® Joint Pipe	
				Atlantic States	Tyton® Joint Pipe	
				Clow Water Systems	Tyton® Joint Pipe	
				Pacific States	Tyton® Joint Pipe	
Griffin Pipe Products				Tyton® Joint Pipe		
Ductile Iron with Zinc/Epoxy & Polyethylene Encasement	CLASS 250 AWWA C105 AWWA C111/A21.11 AWWA C150 AWWA C151 AWWA C105 ANSI A21.5	6 metres in length, Push-on Joint Pipe rounding per manufacturers specifications	McWane Ductile/Canada Pipe	TR Flex		
			Electrosteel USA	Nublu		

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SERVICES						
Water Services	Copper - 25mm to 50mm	AWA C800 ASTM B88	Type "k", 3rd Party (W.H.) soft copper		as per manufacturer	
	Cross-linked Polyethylene - 25mm to 50mm	AWWA C904 ASTM F876/F877 ASTM F2080 CSA B137.5 NSF-14 NSF-61	Cross-linked polyethylene (PEX) Tubing	Rehau	Municipex, Blue 904	Municipex valves and fittings conform with AWWA C800. C800 applies to "Underground Service Line Valves and Fittings" Appropriate Standard C904 "Cross Linked Poly Services" Suggest NSF Standard 14 and 61
				IPEX		
				CB Supplies Limited	CANPEX Ultra (Without Tracerwire)	
				CB Supplies Limited	CANPEX UV PLUS (Without Tracerwire)	
				CB Supplies Limited	LYNX-PEX Water Service Tubing	
Corporation (Main) Stop	No Lead Alloy - 25mm to 50mm	AWWA C800 NSF-61 ASTM B-62 ASTM B-584 NSF-372	Ball Valve, Compression Joint	Cambridge Brass	301NL-A4HE4	Stainless Steel Saddles to be used on all PVC Pipe. Rockwell Type Double Solid Band Saddles for 38mm and up on DI or Cast Main. Must have a set screw for accepting tracer wire when connecting to Cross-linked Polyethylene piping.
					301NL-A6HE6	
					301NL-A7HE7	
				Ford Meter Box Company	FB1000-4-TW-Q-NL	
					FB1000-6-TW-Q-NL	
					FB1000-7-TW-Q-NL	
Curb Stop	No Lead Alloy - 25mm to 50mm	AWWA C800 NSF-61 ASTM B-62 ASTM B-584 NSF-372	Ball Valve, Compression Joint, Non-Draining	Mueller Canada	B-25209N	Set screw for accepting tracer wire on one nut (road side) required when connecting to Cross-linked Polyethylene Service Piping
				Cambridge Brass	202NL-H4HE4	
					202NL-H6HE6	
					202NL-H7HE7	
				Ford Meter Box Company	B44-444-TW-Q-NL	
					B44-666-TW-Q-NL	
Service Boxes	Epoxy Coating Cast Iron	N/A	Epoxy Coated Lid	Mueller Canada	A724/A728	Extension required if special depths are encountered (as per manufacturers recommendations)
					A800	
				Clow Canada	D1	
					D3	
				Bibby Ste Croix	VSB1	
					VSB2	
Service Box Rods	Stainless Steel	N/A	36" Stainless Steel, Self Centering, Brass Cotter Pin	Mueller Canada	88036	Longer stainless steel rod required if special depths are encountered. (as per manufacturers recommendations)
				Clow Canada	T4-36	
				Cedar Infrastructure Products LP	N3909-SSR	
Service Saddles	Ductile Iron Watermain (38mm to 50mm)	AWWA C800 AWWA C213 ASTM A536 ASTM D2000 ASTM A240 NSF-61	Ductile Iron, Double Strap, AWWA Tapered Threads	Smith-Blair	313	
				Ford Meter Box Company	F202	
				Robar	2408	
				Cascade	CSC2	
	PVC Watermain (25mm to 50mm)	NSF-61	Type 304 Stainless Steel including hardware, Double Bolt, Broad Band, AWWA Tapered Thread	Smith-Blair	373	Service Saddles are mandatory on all watermains
					3742	
				Ford Meter Box Company	FS303DB, FS313	
				Cambridge Brass (Teck Saddle)	Up to 400 mm Series 403DB	
				Robar	Up to 300mm 2616DB	
	Up to 400mm 2626DB					
		Cascade	CSC2			

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SERVICES CONTINUED						
Tapping Sleeves	Ductile Iron	ASTM D2000 ASTM A3 AWWA C223 NSF-61	Order with Stainless Steel Bolts; MJ Outlet; Epoxy Coating	Ford Meter Box Company	FTSS	
				Robar	6906	
				Smith-Blair	622	
				Mueller Canada	H-621	
	PVC	AWWA C223 AWWA C207 NSF-61 ASTM D2000	Stainless Steel; MJ Outlet; Full Surround Girded Gasket	Smith-Blair	663	
				Robar	6606	
				Ford Meter Box Company	Fast Tap	
Couplings	No Lead Variety - 25mm to 50mm	AWWA C800 NSF-61 NSF-372 ASTM B584 ASTM B62		Mueller Canada	H-15403	No Lead Variety
				Ford Meter Box Company	C44-77	
				Cambridge Brass	119NL-B4B4	
					119NL-B6B6	
					119NL-B7B7	
Angle Meter Stops	25mm	AWWA C800 AWWA C700 ASTM B62 ASTM B584 NSF-61 NSF-372	Full Port, No Handle	Ford Meter Box Company	BA43-444W-NL	No Lead Variety
				McDonald Brass	74602B-22	
				Cambridge Brass	210NL-B4T4	
	25mm x 19mm	AWWA C800 AWWA C700 ASTM B62 ASTM B584 NSF-61 NSF-372	Full Port, No Handle	Ford Meter Box Company	BA43-342W	No Lead Variety
				McDonald Brass	4182-059	
				Cambridge Brass	210NL-B4T3	
FITTINGS						
Fittings	Ductile Iron + PVC	AWWA C110/A21.10 AWWA C153/A21.53 AWWA C111/A21.11 ASTM A536 NSF-61 NSF-372 AWWA C115/A21.15 ANSI B16.1 AWWA C104/A21.4	Mechanical Joint, Ductile Iron Body and Glands cement lined seal coat to AWWA C104/A21.4	TylerUnion/Biddy	as per manufacturer	
				Sigma		
				Star		
	Polyvinyl Chloride (PVC)	AWWA C900 AWWA C907 AWWA C905 NSF-61 CSA 137.2 & 137.3 ASTM D1784 ASTM F477 ASTM D3139	Push-on Joint CSA B137.2 (100mm to 200mm only). Must have integral joint restraint or be external mechanical restraint capable.	IPEX	Blue Brute	
				Westlake Pipe & Fittings	CIOD PVC P.P.	
				Harrington Corp	HARCO C907	
				Utility Supply Corporation	RCT Flex-tite Fitting	

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FITTINGS CONTINUED							
Fittings	All Pipe Material	AWWA C219 AWWA C111/A21.11 AWWA C153/A21.53 ASTM F1476 AWWA C227	Multi/Joint to connect different pipe materials together with similar OD ranges.	George Fischer	Multi/Joint 3000 Plus		
Couplings	Ductile Iron/PVC	AWWA C110/A21.10 AWWA C153/A21.53 AWWA C111/A21.11 ASTM A536 AWWA C115/A21.15 CSA B16.1 AWWA C104/A21.4	Mechanical Joint, Ductile Iron Body and Glands cement lined seal coat to AWWA C104/A21.4	Sigma	as per manufacturer		
	Dresser Type for DI, CI, PVC and HDPE (Use Hymax Only)			Epoxy Coated	Robar	as per manufacturer	
					Smith-Blair	as per manufacturer	
					TPS	HYMAX	
	Cast Iron/Oversized Main		AWA C219 ASTM A536 ASTM D2000 AWWA C111 NSF-61	DI Bodies, Stainless Steel Nuts and Bolts	EBBA	3800 Mega Coupling	
					Robar	1406	
Smith-Blair					441		
Dresser					as per manufacturer		
Restraining Glands	Ductile Iron Watermain	ASTM A536 AWWA C111/A21.11 AWWA C153/A21.53 AWWA C110/A21.10 AWWA C104/A21.4 AWWA C150/A21.50	Colour Code "black" for Ductile Iron Use. Tie Rods stainless steel.	Smith-Blair	Cam-Lock 111		
				Star	Stargrip		
				Ford Meter Box Company	Uni-Flange Series 1400		
				Sigma	One-Lok		
				Clow	TUFGrip-TGP		
	PVC Watermain	AWWA C110/A21.10 ASTM A536 AWWA C151/A21.51 AWWA C150/A21.50 AWWA C111/A21.11 AWWA C153/A21.53 AWWA C909	Tie Rods Stainless Steel. The split ring restraint design shall incorporate a series of non-directional machined serrations (not "as cast") on the inside diameter to provide positive restraint, exact fit, 360 degree contact and support of the pipe wall. *If machined serrations are directional, additional safeguards must be built into casting.	Star	Stargrip		
				Ford Meter Box Company	Uni-Flange Series 1400		
				Sigma	One-Lok, PV-Lock		
				Clow	TUFGrip-TGP		
				Smith-Blair	Cam-Lock 120		
	PVCo Watermain	AWWA C110/A21.10 ASTM A536 AWWA C151/A21.51 AWWA C150/A21.50 AWWA C111/A21.11 AWWA C153/A21.53 AWWA C909	Tie Rods Stainless Steel. The split ring restraint design shall incorporate a series of non-directional machined serrations (not "as cast") on the inside diameter to provide positive restraint, exact fit, 360 degree contact and support of the pipe wall. *If machined serrations are directional, additional safeguards must be built into casting.	Sigma	PV-LokPWPF	PVCo to PVC Fitting	
					PV-LokPWPF	PVCo to PVCo	
					One-Lok SLC	PVCo to Mech-Joint Fitting	
				Clow	TUFGrip	PVCo to Mech-Joint Fitting	
				Star	StargripPVCo	PVCo to PVCo	
Repair Clamps	Stainless Steel		All repair clamps to be supplied with stainless steel (passive 304) nuts and bolts. Tapered Gaskets.	Total Piping Solutions	EZ-Maxplus	Excluding (100mm x 19mm AWWA)	
				Cambridge Brass	as per manufacturer		
				Clow Canada	Series 200		

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VALVES						
Gate Valve	Resilient Seated Gate Valve M.J. x M.J.	AWWA C509 ASTM A536 AWWA C515 AWWA C550 ASTM A126 NSF-61	52mm Square Nut, M.J. x M.J. (100mm - 600mm) open counter clockwise, Resilient Seated Gate, Epoxy Coating	Mueller Canada	A2361-23	
				Clow	F-6100 (A2369/2340)	
				Avk	Series 25/00	
				Bibby Ste Croix	as per manufacturer	
Tapping Valve	Resilient Seated Valves Tapping	C509 ASTM A536	Flange x M.J. 150mm to 300mm, Open Counter clockwise, 52mm Square Nut, Epoxy Coated	Mueller Canada	H-687	
				Clow	F-6114	
				Bibby Ste Croix	as per manufacturer	
				Avk	25/30081	
Butterfly Valve		AWWA C504 AWWA C516 NSF-61 NSF-372	Greater Than or Equal To 750mm Only	Pratt	Groundhog	
				Crispin Valve	F47 Series	
Air Release	Air Release Valve Combination/Direct Bury	AWWA C512 ASTM A126 Class B ASTM D429 AWWA C515 AWWA C550 ASTM A126 AWWA C606	I.P. Thread x I.P. Thread (Ball Type) 150mm Cover	A.R.I	D-090-P	
					D-040-C	
					S-050-C	
				APCO	Model #65	
				Clayton Valve	34AR-332-3/4"	
				Bibby Ste Croix	VB800	
Pressure Reducing	Pressure Reducing and Check Valve	AWWA C510 ASTM A216 ASTM A536 ASTM B148 ASTM B62 NSF-61	Flange x Flange (Note: City of Barrie to supply contractor with the appropriate pressure range)	Clayton Valve	90-01	
Check Valve	Flexible Disc Check Valve	AWWA C508 ASTM A536, Grade 65-45-12 ANSI B16.1, Class 125 NSF-61 NSF-372	Position Indicator, Backflow Actuator, Surge Inhibitor, Limit Switch	Henry Pratt Company	RD Series Flexible Disc Check Valve	

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VALVES CONTINUED						
Valve Box	Grey Cast Iron	N/A	Slide Type	Bibby Ste Croix	VB875	Verified components of valve box systems include upper and lower section, extensions, lid and guide plate.
					VB700	
					VB705	
					VB710	
				Sigma	VB4500	
					VB4253	
					VB4401	
					VB4400	
					VB4512	
					VB4518	
					VB4524	
					VBPR4400	
				Cedar Infrastructure Products LP	N3907	
					N3908	
Valve Stem Extension		N/A	Required for additional depth over 1.7 metres; 52mm top operation c/w set screw; *contractor to supply required length	Bibby Ste Croix	VB950	
				Concord/Daigle	as per manufacturer	
				Mueller Canada	218/758 (Nut)	
					29/06 (Socket)	
Backflow	Reduced Pressure Principal Back Flow Preventer	AWWA C511 CSA B64.4		Watts	#909 Series	c/w Mechanical Indicator
				Val-Matic	Swingflex 500	
HYDRANTS						
Hydrant		AWWA C502 ASME B16.1 OPSS 441 Can/ULC-S520-07 ASTM A536 ASTM B62 AWWA C502 AWWA C550	1.98 Metres (6'6") Barrel Length Chrome Yellow; Post type dry barrel compression shutoff with ball valve closing with flow; M.J. Elbow, 5" Valve Ball, 2 CSA Standard Hose Connections (2½" Nominal), 4" Storz threadless pumper connection as per NFPA 1963 and AWWA C502, Breakaway Flange, Self Draining	Clow	D67M Premier	Notes: Storz connections must be supplied by manufacturer specific to the Hydrant. Bibby and AVK Hydrants may be installed in Private Applications Only.
				Canada Valve	Century	
				AVK	2780	
				Bibby Ste Croix	Sentinel	
Post/Yard Hydrant				Kupferle	Mainguard Model #77	
				Mueller Canada	A-410	
CHAMBERS						
Pressure Reducing Chamber Station	Steel - Fusion Bonded Epoxy	ASTM A36 ASTM A500 CSA C22.1/C22.2 no. 108 National Electrical Code	Minimum plate thickness 6mm	Engineered Fluid Inc.	as per manufacturer	H-20 Vehicle Loading
Water Chambers	Watertight Precast Concrete	OPSD 1108.010	2 Piece Monolithic Construction		as per manufacturer	H-20 Vehicle Loading

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CORROSION PROTECTION						
Anodes	High Potential Magnesium Anode	ASTM B843 OPSS 442	Grade M1C Magnesium Anodes: 14.5kg	Interprovincial Corrosion Control Company Bren Technologies	MAXMAG 17D3GG Magnesium Anode	
Reference Electrode	Zinc	ASTM B418 - Type 2			as per manufacturer	
Test Station				Pro-Mark	PM-TS5	H-20 Vehicle Loading, Secure - Flush Mount
Sacrificial Caps	Cathodic Protection (Nuts and Caps)	ASTM B418 - Type 2	99.9% High Grade Zinc, Steel Core, Coated with Low Resistant Depolarizing Material: 175 grams	Maple Agencies - Exothermal Industries	Protecto Caps 175P190	
				Duratron	DSN0750	
				Bren Technologies	SAP CAP	
				Integrity Pipeline Ltd.	Integrity Cap	
Protective Coatings	Petrolatum tape system comprised of primer, mastic, and cold applied tape	AWWA C217 NACE RP0375 CSA Z245.30		Interprovincial Corrosion Control Company	PetroWrap	
				Denso North America	Denso Wrap	
				Chase Protective Coatings	Long Wrap	
Protective Overwrap	Polyethylene	AWWA C105		Bren Technologies / PCS	PCS Petro Coating Systems	
METERING						
Water Meter 19mm - 50mm		C700-2.3m ³ /hr - 18.0m ³ /hr	Encoder Register	Sensus	Model ECR, DR	SR11, Omni (38mm, 50mm), Accustream
Water Meter 75mm		AWWA C702 ANSI Class 125 NSF-61 NSF-372	5m ³ c/w Touch Pad Compound Meter Operating Range 1 1/2 to 320 GPM (0.11 to 72.6m ³ /h), Accuracy of 100% +/- 1.5% of Actual Thruput Flanged 3" Round Single Register to Read High and Low Flows	Sensus	3" OMNI C2	
Water Meter 100mm		AWWA C702 ANSI Class 125 NSF-61 NSF-372	5m ³ c/w Touch Pad Compound Meter Operating Range 1 1/2 to 320 GPM (0.11 to 72.6m ³ /h), Accuracy of 100% +/- 1.5% of Actual Thruput Flanged 3" Round Single Register to Read High and Low Flows	Sensus	4" OMNI C2	
Water Meter 150mm		AWWA C702 ANSI Class 125 NSF-61 NSF-372	5m ³ c/w Touch Pad Compound Meter Operating Range 1 1/2 to 320 GPM (0.11 to 72.6m ³ /h), Accuracy of 100% +/- 1.5% of Actual Thruput Flanged 3" Round Single Register to Read High and Low Flows	Sensus	6" OMNI C2	
Meter Wire		CSA Type CMG, LL3996	22 Gauge 3 Conductor, Metgrey, Temperature: 60°C, Flame Rating - FT4			
Pit Setter	Plastic		Lockable Lid	Ford Meter Box Company	PTMBB-788-36-xx-NL MC-36HH-MB-T	Minimum Depth 1.5m
Splice Kits				3M Scotchlok	UY2 (For Meter Wire)	
AUTOMATIC FLUSHING STATIONS						
Automatic Flushing Station			Lockable, with dechlorination, sampling point, 50 mm (2 inch) inlet, PVC pipe, 1.8 m (6 feet) bury depth	Mueller Canada	Hydro-Guard HG-4 cold climate model	
Automatic Flushing Station			Lockable, with siphon dechlor system and dechlor basket, sampling point, 50 mm (2 inch) inlet, 1.8 m (6 feet) bury depth	Kupferle	Eclipse 9800 cold climate model	

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TRACER WIRE SYSTEMS						
Tracer Wire (Open Cut Installations)			#12 AWG (0.0808" diameter) high strength copper clad steel conductor (HS-CCS) insulated with a 30mm, high density polyethylene (HDPE) insulataion, rated for direct burial use at 30 volts	Electrical Suppliers	HF-CCS PE45	Wire to be Colour Coded Blue = Water Green = Sanitary
				Canada Wire	as per manufacturer	
				Phillips	as per manufacturer	
				Maple	as per manufacturer	
				Pirrelli	as per manufacturer	
				Copperhead	as per manufacturer	
				Pro-Line	as per manufacturer	
				#12 AWG (0.808" diameter)	DomTech	
	DomTech	260RWU121BL/260RWU121GR				
Tracer Wire (Directional Drilling and Jack & Bore Installations)			Directional Drilling/Jack & Bore Installation	Copperhead	845x-EHS	For Water x=B, For Sanitary x=G Minimum of 4 wires to be pulled
				Copperhead	1045B-EHS/1045G-EHS	
				Copperhead	1245B-EHS/1245G-EHS	
Tracer Wire Connectors		ASTM D1248 ASTM B910/B910M	Water Proof Connector	Copperhead	Low Voltage Ace Connectors (SC-PB-01)	To be used for all Tracer Wire Connections.
Test Station (above grade)				Rhino	72" RhinoDome Test Station RDR72UU-TS9125-WPCLK	Post to be Colour Coded Blue = Water Green = Sanitary Purple = Low Impact Developments Post to contain warning sticker Water = "Warning Water Pipeline" Sanitary = "Warning Sanitary Pipe Line"
Test Station Locking Lid				Rhino	DOME-TS-LOCK	
Hydrant Three Terminal Test Station			5/8", Blue in Colour	Copperhead	Cobra T3 Hydrant Flange Package	
Flushmount Test Station			Pro-Line Tracer Pit with ISO-SWITCH5 Terminal	Pro-Line	PROTP5	
			RB14B2TSW , Blue	Copperhead	Snake Pit Switchable Access Box, Roadway	
Anodes	Magnesium		ANO-12, Anode, Magnesium Drive	Copperhead	Ground Rod 12-AWG	42.5 cm (17") length and equipped with a 12AWG tail
MISCELLANEOUS						
Insulation	Extruded Polystyrene	ASTM C578CAN ULC S701 Type 4	Styrofoam Highload 40	Dow Chemical Canada	as per manufacturer	Minimum Strength 275kPa
Casing Spacers	Casing End Seals		Seal-Virgin SBR & Bands, T-304 Stainless Steel	Cascade	as per manufacturer	
				PSI	as per manufacturer	
				Advance (APS)	as per manufacturer	
	Casing Spacers		Fusion Coated Steel Casing Insulators	Cascade	as per manufacturer	
				PSI	as per manufacturer	
			Advance (APS)	Model SI & SSI		
Metallic Caution Tape			Mylar Marking Tape c/w Metallic Backing; Lineguard Type 2 max bury of 150mm. "Caution Watermain" colour code "Orange"	Lineguard Maintenance Systems	as per manufacturer	
				Health Survey Consultants	as per manufacturer	

*All Technologies/Products are required to meet all verification criteria and be certified to the newest version of the Standard(s).