

| A  | B  | C   | D                        | E                 | F   | G  | H  | I   | J   | K   |             |
|--|--|---|--------------------------|-------------------|---|--|--|---|---|---|-------------|
| Product  | WSAA Product Specification No. with Service Provider Specific Requirements | Manufacturer / Supplier   | Trade Name               | Size Range        | Specified Requirements / Minimum Class      | The City of Gold Coast   | Logan City Council   | Redland City Council  | QUU   | Unitywater  |             |
| <p>Notes:<br/>                     WSAA Product Specifications are available from www.wsaa.asn.au. Section 4 of the WSAA Product Specifications is for "Agency or Project Specific Requirements". The SEQ requirements are specified below.<br/>                     Manufacturer/Supplier Products may be sourced from alternative Suppliers than those listed provided that the products are manufactured by a Manufacturer whose name, and the products' trade name, appear on the list.<br/>                     Size Range Size ranges need to be read in conjunction with the relevant clauses of the SEQ versions of the WSAA Codes (e.g. Water Supply Code Clause 3.1.1; Sewerage Code Clause 10.6; Pressure Sewerage Code Clause 4.5.3.1; etc.)<br/>                     Blank Cells in the five columns under the service provider's names cells that are blank indicate that the product listed on that row are acceptable to the service provider.<br/>                     'Use is subject to acceptance by SP' Contact the service provider to determine if the use of this product is acceptable in the proposed circumstance.<br/>                     'Flange' All flanges used for pressure systems shall be PN16 or PN35 complying with AS4087.</p> |  |   |                          |                   |   |  |  |   |   |   |             |
| <b>Category: SEWERAGE PIPES AND FITTINGS - NON PRESSURE</b>  |  |   |                          |                   |   |  |  |   |   |   |             |
| 1  | PVC-U pipe and fittings - DWV system                                       | 230<br>4.1 - Plain Wall<br>4.2 - Elastomeric Seal<br>4.3 - Stiffness as per Z30.2.(c) or as required by SP<br>4.4 - RRJ @ SBR & EPDM  | Iplex                    | DWV PIPE          | DN100 150 225 300 375                       | Plain wall only accepted   | DN100 at SN10 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum | DN100 at SN6 minimum, DN150 and larger at SN8 and Moulded Fittings at SN6 minimum | Use is subject to acceptance by SP                                      | DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum  |             |
| Vinidex  |  |   | DWV SEWER                |                   |   |  |  |   |   |   |             |
| Viadux   |  |   | D-FLO                    |                   |   |  |  |   |   |   |             |
| 2  | PVC-U Pressure pipe Sewer using Standard DWV Junctions                     | 211<br>4.1 - PN12<br>4.2 - Deep Sewers or Minimum Cover<br>4.3 - Standard Packaging & Delivery<br>4.4 - Series 1<br>4.5 - RRJ @ SBR & EPDM  | Micron Pipelines         | Micron Pipelines  | DN100 - DN300                               | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP  | NOT ACCEPTED BY SP  | Mandatory for sewers deeper than 3 metres and for sewers with minimum cover. All details to be confirmed with SP  |             |
| Pipemakers   |  |   | Pipemakers               |                   |   |  |  |   |   |   |             |
| Vinidex  |  |   |                          |                   |   |  |  |   |   |   |             |
| 3  | DI pipe  | 202S<br>4.1 - PN35<br>4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp<br>4.3 - Polyurethane lining<br>4.4 - Restrainted Joints on Zinc/Bitumen coated pipe<br>4.5 - Polyurethane coating<br>4.6 - SBR, EPDM or NBR<br>4.7 - PE sleeving is required on all DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment                     | VonRoll / Reece          | Ducpur/ Ecopur    | DN80 - 700 (ISO Sizes)                      | Min 900 micron Polyurethane external coating<br>Min 1300 micron Polyurethane internal lining                         | Use is subject to acceptance by SP   | Use is subject to acceptance by SP  | Use is subject to acceptance by SP                                      |   |             |
| Vinidex  |  |   |                          |                   |   |  |  |   |   |   |             |
| Beaver-Jindal Australia/NZ   |  |   |                          |                   |   |  |  |   |   |   |             |
| 4  | DI pipe  | 202S<br>4.1 - PN20<br>4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp<br>4.3 - Polyurethane lining<br>4.4 - Restrainted Joints on Zinc/Bitumen coated pipe<br>4.5 - Zinc/Bitumen coating or Polyurethane coating<br>4.6 - SBR, EPDM or NBR4.7 - PE sleeving is required on all DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment |                          |                   | DN225 to DN750                              | NOT ACCEPTED BY SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP  | NOT ACCEPTED BY SP  | PN20 NOT ACCEPTED BY SP, PN35 Use is subject to acceptance by SP  |             |
|  |  |   |                          |                   |   |  |  |   |   |   |             |
|  |  |   |                          |                   |   |  |  |   |   |   |             |
| 5  | DI pipe  | 200 and WSAA TN6<br>4.1 - PN35<br>4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp<br>4.3 - CAC cement lining<br>4.4 - Zinc/Bitumen coating<br>4.5 - By design<br>4.6 - SBR and EPDM<br>4.7 - PE sleeving is required on all DI pipes unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment  | Viadux                   | Tytonxtreme       | DN100 - 750                                 | CAC cement lining  | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP  | Use is subject to acceptance by SP                                      | Accepted in applications where DI pipe is specified e.g. building over sewer applications   |             |
| 6  |  |   | Crevet / Iplex           | Ironite           |   |  |  |   |   |   | DN100 - 750 |
| 7  |  |   | Saint-Gobain             | Integral Zinalium |   |  |  |   |   |   | DN100 - 750 |
| 8  | Steel pipe   | 203<br>4.1 - By design and PN16 min<br>4.2 - SEQ Code nominal DN's<br>4.3 - Seal coat not required for sewage<br>4.4 - Extra protection by design<br>4.5 - Joints by design to SEQ Code Standards   | Steel Mains              | Sintapipe         |   | Internal lining would be required, either Epoxy or Sintaline   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP  | Sintapipe accepted in applications where steel pipe is specified.       |   |             |
| 9  | Polypropylene (PP) pipe  | 240<br>4.1 - Type B - ID Series<br>4.2 - SN10,000<br>4.3 - RRJ @ SBR & EPDM   | Vinidex                  | SewerPRO          | DN150 - 900                                 |  |  |   | NOT ACCEPTED BY SP  | SP USE ONLY   |             |
| 10   |  |   | Iplex                    | SewerMAX          |   |  |  |   |   |   | DN225 - 600 |
| 11   |  |   | Enviropipes              | EnviroPipe        |   |  |  |   |   |   | DN150 - 900 |
| 12   | PE pipe - NuSewers   | 207<br>4.1 - Minimum PN8 SDR21 PE100<br>4.2 - Gravity Sewer fully welded<br>4.3 - Pipes lengths for DN160 and larger with coils accepted for DN110<br>4.4 - External colour light grey Solid or Striped with Internal colour white or light colour, see POP203<br>4.5 - PE100 only  | Iplex                    | POLIplex          | DN110 160 250 315 400 500 630 800 1000 1200 | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP  | NOT ACCEPTED BY SP  | PE is mandatory pipe for reticulation sewers, PE is preferred pipe for larger sewers. Where > PN8 is required, dark internal pipe colour may be used with prior SP approval |             |
| 13   |  |   | Vinidex                  | Sewertech         |   |  |  |   |   |   |             |
| 14   |  |   | DMG                      | Hi-Vis            |   |  |  |   |   |   |             |
| 15   |  |   | Viadux                   | SewerFlex         |   |  |  |   |   |   |             |
| 16   |  |   | Poly Pipe                | Enviropressure    |   |  |  |   |   |   |             |
| 17   |  |   | ACP                      |                   |   |  |  |   |   |   |             |
| 18   | PE fittings - Moulded  | 208<br>4.1 - PN10 preferred<br>4.2 - Electrofusion or butt welding<br>4.3 - Couplings and Saddles<br>4.4 - Bolting Flanges not required.<br>4.5 - Elastomeric Seals not permitted<br>And Electrofusion fitting Standards AS4129, EN1555, EN12201, EN13244-4   | George Fischer / Ipex    |                   | Up to DN315                                 | Electrofusion fitting to be long type.   | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP  | NOT ACCEPTED BY SP  | Use is subject to acceptance by SP  |             |
| 19   |  |   | Friatec / Vinidex        |                   |   |  |  |   |   |   |             |
| 20   |  |   | Plasson                  | Lightfit          |   |  |  |   |   |   |             |
| 21   |  |   | Agru                     | AGRU              |   |  |  |   |   |   |             |
| 22   |  |   | Fusion Group/FusionPlast | Fusamatic         |   |  |  |   |   |   |             |
| 23   | NUPIGECO   | Elofit  | DN110 to DN630           |                   |   |  |  |   |   |   |             |
| 24   | Hydroflow / Plastitalia S.p.A  | PLAST   | Up to DN630              |                   |   |  |  |   |   |   |             |
| 25   | PE fittings - Fabricated   | 218<br>4.1 - PN10 preferred<br>4.2 - Electrofusion or butt welding<br>Including Sweep Bends, MH Connectors, Sediment Traps, Tee and Bends for drop pipes and Sweep Junctions.   | Vinidex                  |                   |   | Electrofusion fitting to be long type.<br>PE MH connectors shall have Hydrophilic seals both sides of puddle flange. | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP  | NOT ACCEPTED BY SP  | Use is subject to acceptance by SP  |             |
| 26   |  |   | Iplex                    |                   |   |  |  |   |   |   |             |
| 27   | VC pipe  | 231<br>4.1 - DN100/150 Crushing Strength 34, DN225 and larger Class 160<br>4.2 - Sp-Soc and Sleeve Coupling<br>4.3 - All seal materials accepted  | Adroit                   | Adroit            | DN100-1200                                  | Use is subject to acceptance by SP<br>May only be used as jacking pipes  |  |   | Use is subject to acceptance by SP<br>May only be used as jacking pipes | May only be used as jacking pipes   |             |
| 28   |  |   | Hepworth                 | Supersleeve       |   |  |  |   |   |   |             |
| 29   |  |   | Steinzeug Keramo         | Keramo            |   |  |  |   |   |   |             |
| 30   |  |   | Naylor / Rocla           | Denlok            |   |  |  |   |   |   |             |

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|---------|--|--|----------------------------------|-----------------------------------|---|--|------------------------------------|------------------------------------|------------------------------------|---|
| Product | WSAA Product Specification No. with Service Provider Specific Requirements | Manufacturer / Supplier  | Trade Name                       | Size Range                        | Specified Requirements / Minimum Class              | The City of Gold Coast   | Logan City Council                 | Redland City Council               | QUU                                | Unitywater  |
| 1       |  |  |                                  |                                   |   |  |                                    |                                    |                                    |   |
| 42      | DI IO bends or X Drop fitting  | 201<br>4.1 - Sp-Soc ends to serve PVC-U DWV pipe<br>4.2 - Refer Standard drawings<br>4.3 - Standard RRJ for accept PVC-U DWV pipe<br>4.4 - SBR & EPDM<br>4.5 - Thermal-bonded polymeric coated and lined   | Crevet                           |                                   | All DI fittings to be wrapped                       |  |                                    |                                    | Use is subject to acceptance by SP | NOT ACCEPTED BY SP  |
| 43      |  |  | Viadux                           |                                   |   |  |                                    |                                    |                                    |   |
| 44      |  |  | Flex-Seal                        | Flex-Seal                         | Up to DN600   |  |                                    |                                    |                                    |   |
| 45      | Metal-banded flexible coupling   | 235<br>4.1 - Need for adaptor bushes where difference between OD of pipe and ID of coupling greater than 16 mm<br>4.2 - Metal band and bolts shall be min SS316  | DEKS                             | DEKS shear banded coupling        | DN100 to DN225                                      | Not to be used for PE pipes  |                                    |                                    | Use is subject to acceptance by SP |   |
| 46      |  |  | Rehau                            | Awaduct Flex Connect              | DN100 to DN 630                                     |  |                                    | Use is subject to acceptance by SP |                                    |   |
| 47      |  |  | VIP Polymers/ Jaybro Group       | VIPSeal                           | DN100 to DN600                                      |  | Use is subject to acceptance by SP |                                    |                                    |   |
| 48      |  |  | Viadux                           | Gibault - Ezigib & Varigib        |   |  |                                    |                                    |                                    |   |
| 49      |  |  | Crevet                           | Gibault & Universal               |   |  |                                    |                                    |                                    |   |
| 50      |  |  | AVK                              | Gibault & Universal               |   |  |                                    |                                    |                                    |   |
| 51      | DI mechanical couplings - Non End Thrust Restraint                         | 270<br>4.1 - PN16<br>4.2 - All pipe materials except PE<br>4.3 - Long Series<br>4.4 - Straight Soc-Soc<br>4.5 - Stepped coupling require SP approval<br>4.6 - Flange end not used<br>4.7 - SBR & EPDM<br>And SS316 bolts, nuts and washers   | AVK                              | AVK Supa-Gib Couplings            | Up to DN675   | Long type.<br>All DI fittings to be wrapped.<br>DI must have thermal bonded polymeric coating  |                                    |                                    | Use is subject to acceptance by SP |   |
| 52      |  |  | Viking Johnson                   | MaxiFit & QuickFit                |   |  |                                    |                                    |                                    |   |
| 53      |  |  | Derwent                          |                                   |   |  |                                    |                                    |                                    |   |
| 54      |  |  | DEKS                             | DEKS FLEXI-GIB                    | DN80 to DN600                                       |  |                                    |                                    | Use is subject to acceptance by SP |   |
| 55      |  |  | Daemco                           | Reinversal                        | Up to DN 600  |  |                                    |                                    |                                    |   |
| 56      |  |  | Clover Pipelines                 | Clover Connect VPC                | DN80 to DN375                                       |  |                                    |                                    | Use is subject to acceptance by SP |   |
| 57      | 316 Stainless Steel Sewer Clamps   | No WSA-PS, AS 4181   | Derwent Industries               | Sewer OB Junction                 | DN100 - DN450 with Offtake sizes DN100/ DN150/DN225 | 316 Stainless Steel Sewer OB Junction repair clamp for property connections on existing gravity sewer pipelines. The fixed off- take branch has an PVC-U access coupling | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP  |
| 58      | Reinforced Concrete pipe   | 233<br>4.1 - Class 4<br>4.2 - Bends not permitted<br>4.3 - In corrosive soils coat external face with 250 micron DFT High Build Epoxy<br>4.4 - Lifting holes not permitted<br>4.5 - 2.0 mm PE sheet Factory cast-in liner with Invert overlapped but not welded<br>4.6 - No additional cover<br>4.7 - SBR & EPDM | Rocla                            |                                   |   |  |                                    |                                    | Use is subject to acceptance by SP | Use is subject to acceptance by SP  |
| 59      |  |  | Humes                            |                                   |   |  |                                    |                                    |                                    |   |
| 60      | Polycrrete pipe  | No WSA-PS<br>4.1 - Class to suit design<br>4.2 - Bends not permitted<br>4.3 - Compliance with ASTM D 6783, DIN 54815-1 and DIN 54815-2<br>4.4 - SBR and EPDM<br>Sewer Pipe and Jacking Pipe approved   | Iplex                            | Meyer pipe                        | DN200 to 2600                                       |  |                                    |                                    | Use is subject to acceptance by SP | Use is subject to acceptance by SP<br>Coupling Grade 316 Stainless Steel (min.) |
| 61      |  |  | Global Pipe                      | Al Watani                         |   |  |                                    |                                    |                                    |   |
| 62      | CC-GRP (centrifugally cast) pipe and Fittings - Sewer Pipe                 | 237S<br>4.1 - PN1<br>4.2 - SN10,000 minimum<br>4.3 - Soc-Sp RRJ<br>4.4 - Standard Glass<br>4.5 - SBR & EPDM  | Superlit / Clover Pipelines      | Superlit                          | DN400 - DN1400                                      | Sewer Pipe   | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP  |
| 63      |  |  | Flowtite / Iplex                 | Flowtite                          | DN300 - DN3000                                      |  |                                    |                                    |                                    |   |
| 64      | FW-GRP (filament wound) pipe and Fittings - Sewer Pipe                     | 205S<br>4.1 - As per product<br>4.2 - PN1<br>4.3 - SN10,000 minimum<br>4.4 - Bends, T-piece, Y-piece, Saddles, Reducers, Flanges and MH Couplings<br>4.5 - Soc-Sp RRJ<br>4.6 - Standard Glass<br>4.7 - SBR & EPDM  | Global Pipe                      | Fiberstrong                       | DN300 - DN4000                                      | Sewer Pipe   | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP  |
| 65      |  |  | Superlit / Clover Pipelines      | Superlit                          | DN300 - DN3000                                      |  |                                    |                                    |                                    |   |
| 66      |  |  | Hobas / Global Pipe              | Hobas                             | DN250 - DN3600                                      |  |                                    |                                    |                                    |   |
| 67      | CC-GRP (centrifugally cast) pipe and Fittings - Jacking Pipe               | 205J<br>4.1 - As per product<br>4.2 - Pressure Class by design<br>4.3 - Stiffness Class by design<br>4.4 - Jacking Load by design<br>4.5 - 316 Stainless Steel (min) or GRP couplings<br>4.6 - SBR & EPDM<br>4.7 - Pipe Lengths to manufacturers requirements<br>4.8 - Standard Glass                            | Empire Infrastructure            | BOSSPIPE                          | DN300 - DN2000                                      | Jacking pipes  | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP  |
| 68      |  |  | Superlit / Clover Pipelines      | Superlit                          | DN400 - DN1400                                      |  |                                    |                                    |                                    |   |
| 69      |  |  | Flowtite / Iplex                 | Flowtite                          | DN300 - DN3000                                      |  |                                    |                                    |                                    |   |
| 70      | FW-GRP (filament wound) pipe and Fittings - Jacking Pipe                   | 206J<br>4.1 - As per product<br>4.2 - Pressure Class by design<br>4.3 - Stiffness Class by design<br>4.4 - Jacking Load by design<br>4.5 - 316 Stainless Steel (min) or GRP couplings<br>4.6 - SBR & EPDM<br>4.7 - Pipe Lengths to manufacturers requirements<br>4.8 - Standard Glass                            | Superlit / Clover Pipelines      | Superlit                          | DN300 - DN3000                                      | Jacking pipes  | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP  |
| 71      |  |  |                                  |                                   |   |  |                                    |                                    |                                    |   |
| 72      |  |  | Iplex                            | Flap valve                        | DN50 to DN300                                       |  |                                    |                                    |                                    |   |
| 73      |  |  |                                  | Reflux valve fabricated           | DN100   |  |                                    |                                    |                                    |   |
| 74      | Non-return valves  | No WSA-PS  | Vinidex                          | Flap valve                        | DN50 to DN100                                       |  |                                    |                                    |                                    |   |
| 75      |  |  | Hygrade Water                    | WaStop Non-return valves          | DN75 to DN200                                       |  |                                    |                                    |                                    |   |
| 76      |  |  | Fluid Control                    | Red valve - Tideflex check valves | DN50 to DN2400                                      |  |                                    |                                    |                                    |   |
| 76      |  |  | HMA Flow & Industrial - Valvecro | Proflex Rubber Check Valve        | DN 25 to DN 2500                                    |  |                                    |                                    |                                    |   |

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| 1  |   |   |   |                            |                 |   |                                    |                                    |                                    |                                    |  |
| 77 |   |   | Pentair   | Keystone                   |                 |   |                                    |                                    |                                    |                                    |  |
| 78 |   |   | Challenger  | Challenger                 |                 |   |                                    |                                    |                                    |                                    |  |
| 79 |   |   | AVFI  | AVFI                       |                 |   |                                    |                                    |                                    |                                    |  |
| 80 | Knife gate valve - Stainless Steel            | 266<br>4.1 - PN10<br>4.2 - Wafer or Lugged<br>4.3 - Clockwise closing, rising spindle   | HMA Valveco   | HMA Valveco                | Up to DN600     | Body stainless steel Grade 316. Gate stainless steel Grade 316. Gland Follower stainless steel Grade 304 or 316. Spindle stainless steel grade 304 or 316. Yoke/Pillar/Bridge stainless steel Grade 304 or 316. Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316.   | Use is subject to acceptance by SP |                                    | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Subject to meeting the corrosion resistance requirements in Column F |
| 81 |   |   | AVK<br>(Note: This is the only vendor complying with 316 SS throughout) | AVK                        |                 |   |                                    |                                    |                                    | Use is subject to acceptance by SP |  |
| 82 | Knife gate valve - Fabricated Stainless Steel | 266<br>4.1 - PN1<br>4.2 - Lugged<br>4.3 - Clockwise closing, rising spindle<br>(Note: This is a low pressure type gate valve, suitable only for sewer isolation etc.) | Australian Water Engineers  | Australian Water Engineers | DN700 to DN1200 | Body, Gate, Gland Follower, Spindle and Yoke / Pillar / Bridge stainless steel Grade 316. Seat EPDM. All fasteners stainless steel Grade 316.   | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP |  |
| 83 |   |   | Pentair   | Keystone                   |                 |   |                                    |                                    |                                    |                                    |  |
| 84 | Knife gate valve - Ductile iron body          | 266<br>4.1 - PN10<br>4.2 - Wafer or Lugged<br>4.3 - Clockwise closing, rising spindle   | Challenger  | Challenger                 | Up to DN600     | Body and Gland Follower ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 275 µm (min.). Gate stainless steel Grade 316. Spindle stainless steel Grade 316. Yoke / Pillar / Bridge carbon steel with fusion bonded polymeric coating to 300 µm or high-build two-pack epoxy to 275 µm (min.). Seat EPDM, NBR, RTFE or Viton. All fasteners stainless steel Grade 316. All DI fittings to be wrapped | Use is subject to acceptance by SP |                                    | Use is subject to acceptance by SP | Use is subject to acceptance by SP |  |
| 85 |   |   | AVFI  | AVFI                       |                 |   |                                    |                                    |                                    |                                    |  |
| 86 |   |   | AVK   | AVK                        |                 |   |                                    |                                    |                                    |                                    |  |

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| <b>Category: SEWERAGE PIPES AND FITTINGS - PRESSURE</b> |  |  |  |  |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 87  |  |  |  |  |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 88  | PVC-M pipe   | 209  | Iplex  | BLUERHINO  | DN100 150 200 225 250<br>300 & 375                                  |   | Use is subject to acceptance by SP  |  | Use is subject to acceptance by SP   | NOT ACCEPTED BY SP  |   |   |                                    |                                    |  |
| 89  |  | 4.1 - PN16   | Vinidex  | Hydro  |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 90  |  | 4.2 - Sewer Rising main  | Viadux   | TUF-FLO  |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 91  |  | 4.3 - Series 2 only  | Micron Pipelines                                 | Micron Pipelines   |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 92  |  | 4.4 - Cream refer POP203<br>4.5 - SBR & EPDM   | Pipemakers                                       | Pipemakers Enviromain  | DN100 - DN300   |   |   |  |  |   |   |   |                                    |                                    |  |
| 93  | PVC-O pipe   | 210  | Iplex  | ApolloBLUE   | DN100 150 200 225 250<br>300 & 375                                  |   | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | NOT ACCEPTED BY SP   | Use is subject to acceptance by SP                                      |   |   |                                    |                                    |  |
| 94  |  | 4.1 - PN16   | Vinidex  | Supermain  |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 95  |  | 4.2 - MRS400 or MRS450   | Micron Pipelines                                 | Micron Pipelines   | DN100 - DN375   |   |   |  |  |   |   |   |                                    |                                    |  |
| 96  |  | 4.3 - Sewer Rising main<br>4.4 - Series 2 only, Cream refer POP203<br>4.5 - SBR & EPDM   | Pipemakers                                       | Alphamain  | DN100 to DN150  |   |   |  |  |   |   |   |                                    |                                    |  |
| 97  |  |  |  | TOM®   | up to DN375   |   | Use is subject to acceptance by SP  |  |  |   |   |   |                                    |                                    |  |
| 98  | DI pipe  | 200 and WSAA TN6<br>4.1 - All Pressure Classes - see Column F<br>4.2 - Seal Coat not required for Sewerage<br>4.3 - Cement Mortar Linings - see Columns F-K<br>4.4 - All fittings to be Fusion Bonded Polymeric Coated<br>4.5 - Restraint Joint Seals by approval<br>4.6 - SBR and EPDM<br>4.7 - PE sleeving is required on ALL DI pipes, including those with a zinc-aluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment | Beaver-Jindal Australia/NZ                       |  | DN225 to DN750  | PN20  | NOT ACCEPTED BY SP  | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP   | PN20 NOT ACCEPTED BY SP   |   |   |                                    |                                    |  |
| 99  |  |  | Vinidex  | ZAP-GP   | DN250-750 (not 225)   |   |   |  |  |   |   |   |                                    |                                    |  |
| 100   |  |  | Clover Pipelines                                 | Clover/Xinxing   |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 101   |  |  | Vinidex  | ZAP-HAC  |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 102   |  |  | Beaver-Jindal Australia/NZ                       |  | DN225 to DN750  | PN20, CAC lining for corrosive flows  | Use is Subject to acceptance by SP  |  |  |   | Use is subject to acceptance by SP  |   |                                    |                                    |  |
| 103   |  |  | Crevet / Iplex                                   | Ironitite (XINAL400+ coating)                                | DN100, 150, 200, 250,<br>300, 375, 450, 500, 600 &<br>750 (not 225) | PN35 and Flange class   | Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.<br><br>Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.<br><br>Coating shall be minimum 400g/m2 Zn-Al alloy+ 100µm synthetic resin, or minimum 900µm polyurethane or approved equivalent | Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required.<br><br>Use of Vinidex and ZAP products is subject to acceptance by SP | Cement Mortar lining of any type is not permitted within 5.0 metres of the HGL at pump stop. Alternative non-corrosive lining or pipe and fittings required. | Use is subject to acceptance by SP                                      | All linings of pipes and fittings at such locations shall be non-corrosive.<br>Use of Clover Pipelines is subject to acceptance by SP |   |                                    |                                    |  |
| 104   |  |  | Vinidex  | ZAP-GP   |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 105   |  |  | Clover Pipelines                                 | Clover/Xinxing   |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 106   |  |  | Crevet / Iplex                                   | Ironitite (XINAL400+ coating)                                |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 107   |  |  | Vinidex  | ZAP-HAC  |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 108   | Saint-Gobain   | PAM/TYTON Integral Zinalium  | DN100 – DN750 (not 225)                          | PN35 and Flange Class, CAC or HAC lining for corrosive flows |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 109   | Viadux   | PAM/TYTON Integral Zinalium  |  |  |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 110   | Clover Pipelines   | Clover/Xinxing   |  |  |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 111   | DI Pipe - ISO  | 202S<br>4.1 – K9-PN35<br>4.2 – Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp<br>4.3 – Polyurethane lining only<br>4.4 – Restrained Joints on Zinc/Bitumen coated pipe<br>4.5 – Only Polyurethane coating on aerial pipes<br>4.6 – SBR, EPDM or NBR<br>4.7 - PE sleeving is required on ALL DI pipes, including those with zinc-aluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment  | VonRoll / Reece                                  | Ducpur/ Ecopur   | DN80 - 700  | Polyurethane internal protection  |   |  |  |   |   | Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve on Zinc/Bitumen pipe. | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP   |
| 112   | DI fittings - bends, tapers, tees/branches, connectors, risers & caps/blank ends | 201<br>4.1 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp<br>4.2 - Standard and PN16 fittings<br>4.3 - Restraint Joint Seals by approval<br>4.4 - SBR & EPDM  | Viadux   | Tyton Joint  | Up to DN750 (not 225)   | Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS212.<br><br>All DI fittings to be wrapped   |   |  |  |   |   |   |                                    |                                    | Restraint joint seals not suitable for:<br>PN20 pipe;<br>Aboveground applications;<br>Combining joint restraint and thrust blocks;<br>Epoxy or fusion coated spigots;<br>Other manufacturers sockets or other pipe materials.<br>Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP. |
| 113   |  |  | Crevet / Iplex                                   | Crevet   | Up to DN750 (not 225)   |   |   |  |  |   |   |   |                                    |                                    |  |
| 114   |  |  | Vinidex  | Superlink  | Up to DN750 (not 225)   |   |   |  |  |   |   |   |                                    |                                    |  |
| 115   |  |  | Derwent  |  | Up to DN750 (not 225)   |   |   |  |  |   |   |   |                                    |                                    |  |
| 116   |  |  | Gillies  |  | DN100 & DN150   |   |   |  |  |   |   |   |                                    |                                    |  |
| 117   |  |  | Himgiri Castings/Galvin Engineering / CivilPipes | Galvin   | DN80 to DN300   |   |   |  |  |   |   |   |                                    |                                    |  |
| 118   |  |  | Dobbie Dico                                      | Dobbie   | DN100 to DN250  |   |   |  |  |   |   |   |                                    |                                    |  |
| 119   |  |  | Mallet   | Mallet   | DN80 to DN750   |   |   |  |  |   |   |   |                                    |                                    |  |
| 120   | Clover Pipelines   | Clover   | DN80 to DN150                                    |  |   |   |   |  |  |   |   |   |                                    |                                    |  |
| 121   | Daemco   | Daemco   | DN80 - DN375                                     |  |   | Use is subject to acceptance by SP  | Blank ends not accepted, FI-Soc & FI-Sp Connectors accepted up to DN375   | Use is subject to acceptance by SP   | Blank ends not accepted, FI-Soc & FI-Sp Connectors accepted up to DN375  | Blank ends not accepted, FI-Soc & FI-Sp Connectors accepted up to DN375 |   |   |                                    |                                    |  |
| 122   | Bolts  | No WSA-PS<br>Refer Standard Drawing SEQ-WAT-1313-1 etc.  |  |  |   | 316 Stainless steel bolts   | Refer Standard Drawing  | Refer Standard Drawing   | Refer Standard Drawing   | SS316<br>Grade 316 Stainless Steel (min.)                               |   |   |                                    |                                    |  |
| 123   | 316 SS repair and flanged off-take clamps  | 313<br>4.1 - Type R or F by SP approval<br>4.2 - Pipe DN by SP approval<br>4.3 - Off-take DN by approval<br>4.4 - Min. PN16  | Crevet   |  | DN100 to DN300  | Flanged off-take clamps approved Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications.<br><br>Host pipe to be of suitable condition.<br><br>Daemco repair clamps only accepted. | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Type R accepted only  |   |   |                                    |                                    |  |
| 124   |  |  | Viadux   | Wang   | DN100 to DN300  |   |   |  |  |   |   |   |                                    |                                    |  |
| 125   |  |  | Cascade Control                                  | Rapid Clamps   | DN40 to DN350   |   |   |  |  |   |   |   |                                    |                                    |  |
| 126   |  |  | Daemco   | Norma Connect  | DN80 to DN300   |   |   |  |  |   |   |   |                                    |                                    |  |
| 127   | AVK  | AVK Series 748   | Up to DN300                                      |  |   | Only repair clamps accepted. For Non-PE pipes only  |   |  |  |   |   |   |                                    |                                    |  |
| 128   | Repair Couplings   | 270<br>4.1 - PN16<br>4.2 - All pipe materials<br>4.3 - Short and Long Series<br>4.4 - Straight and Stepped<br>4.5 - All DN Range options<br>4.6 - Flange end not used<br>4.7 – EPDM, NBR, Neoprene<br>And SS316 bolts, nuts and washers  | Nova Siria/Hygrade Water                         | Duofit   | DN 300 - DN2000   |   | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP                                      |   |   |                                    |                                    |  |

| A       | B  | C   | D  | E   | F  | G   | H  | I                                  | J   | K  |   |   |  |
|---------|--|---|--|---|--|---|--|------------------------------------|---|--|---|---|--|
| Product | WSAA Product Specification No. with Service Provider Specific Requirements | Manufacturer / Supplier   | Trade Name   | Size Range  | Specified Requirements / Minimum Class   | The City of Gold Coast  | Logan City Council   | Redland City Council               | QUU   | Unitywater   |   |   |  |
| 1       | Flange (DI) off-take clamps  | Hawle / Hygrade Water   | Haku   | DN125 to DN355                                    | For use on PE pipe only.<br>Installed and commissioned in accordance with manufacturers recommendations.<br>All DI fittings to be wrapped.   | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP | Only accepted for use where welded joints are not practical   |  |   |   |  |
| 129     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 130     | Metal-banded flexible couplings - Vacuum Valve coupling use only           | Flex-Seal   | Flex-Seal  | Up to DN600                                       |  |   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP |   | NOT ACCEPTED BY SP   |   |   |  |
| 131     |  | DEKS  | DEKS shear banded coupling                                     | DN100 to DN225                                    |  |   |  |                                    | Use is subject to acceptance by SP  |  |   |   |  |
| 132     | DI mechanical couplings - Non End Thrust Restraint                         | Viadux  | Gibault - Ezigib & Varigib                                     |   | Long type.<br>All DI fittings to be wrapped.<br>DI must have thermal bonded polymeric coating.   |   | Use is subject to acceptance by SP   |                                    |   |  |   |   |  |
| 133     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 134     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 135     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 136     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 137     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 138     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 139     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 140     |  | Clover Pipelines  | Clover Connect VPC   | DN80 to DN375                                     |  |   |  |                                    | Use is subject to acceptance by SP  |  |   |   |  |
| 141     | DI mechanical fittings - End Thrust Restraint (Gripper Type)               | Hawle / Hygrade Water   | System 2000 for PE Synoflex PN16 Restraint for AC, DI, SCL, PE | DN50-DN300  | All DI fittings to be wrapped.<br>Synoflex and +GF+ 3000 Plus are manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN may not suit the same pipe DN for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN for their pipes.<br>Synoflex and +GF+ 3000 Plus are not to be used on PVC and GRP pipes |   |  |                                    | Only accepted for use where welded joints are not practical   | Use of Hawle System 2000 and AVK SupaPlus restrained couplings are subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations<br>The use of gripper type fittings on AC, DI and SCL pipe is subject to acceptance by SP |   |   |  |
| 142     |  | AVK   | Supa Plus Restraint for PE                                     |   |  |   |  |                                    |   |  |   |   |  |
| 143     |  | +GF+  | Multi/joint 3000 Plus restraint type for AC, DI, SCL, PE       |   |  |   |  |                                    |   |  |   |   |  |
| 144     |  | Viking Johnson  | Aquafast and Aquagrip Restraint for PE                         |   |  |   |  |                                    |   |  |   |   |  |
| 145     |  | Nova Siria/Hygrade Water  | Multigrip  |   |  | DN350-DN1400  |  |                                    |   |  |   |   |  |
| 146     |  | Daemco  | Xcel Restrained Coupling and Flange Adaptor for PE             |   |  | DN 63 to DN 315 for Coupling & DN63 to DN 315 for Flange Adaptor  |  |                                    |   |  |   | Only accepted for use where welded joints are not practical | Use of Daemco Xcel Restrained Couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations |
| 147     | DI flanged telescopic flexible fitting                                     | No WSA-PS<br>Aligned to WSA_PS 201 and 270 with Flanges to AS 4087 Figure B5<br>To comply with WSA PS-201S when published   | Hawle / Hygrade Water<br>WSA PA 12/09                          | Vario   | DN50 - DN200   | All DI fittings to be wrapped   |  |                                    | Use by SP only  |  |   |   |  |
| 148     | Dismantling joints for Flange Pipe and Fittings                            | Viadux  |  |   | Thrust restraint type and non-thrust type are Flanged to AS4087 PN16.  | Restrained type only  |  |                                    |   |  |   |   |  |
| 149     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 150     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 151     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 152     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 153     | PE pipe  | Iplex   | POLiPlex   | DN40 50 63 90 125 180 250 315 355 450 560 630 800 | For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire.<br>Pipe wall thickness to be designed for installation forces.   |   |  |                                    | PE is preferred pipe material - PE shall be used unless specific site conditions dictate otherwise. | PE is preferred pipe material<br>Pressure Sewer/ Rising main pipes shall be black with cream stripes<br>Vacuum Sewer pipes shall be solid cream (co-extruded with the pipe)  |   |   |  |
| 154     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 155     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 156     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 157     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 158     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 159     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 160     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 161     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 162     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 163     | PE pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe             | 207, POP016<br>4.1 - PN16 minimum<br>4.2 - Sewer Rising main<br>4.3 - Coil pipe permitted up to DN125 with Pipe lengths for larger DN<br>4.4 - Cream refer POP203<br>4.5 - HSCR PE100 only  | Iplex  | Millennium HSCR PE                                | DN40 50 63 90 125 180 250 315 355 450 560 630 800  | For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with tracer wires.<br>Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided. |  | Use is subject to acceptance by SP | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | Pressure Sewer/Rising main pipes shall be black with cream stripes<br>Vacuum Sewer pipes shall be solid cream (co-extruded with the pipe) |   |  |
| 164     | PE fittings - Moulded - High Stress Crack Resistant (HSCR) Polyethylene    | 208<br>2(a) - AS/NZS4129 or EN1555 or EN12201 or EN13244 is acceptable. HSCR compounds shall comply with AS/NZS 4131 and POP016.<br>4.1 - PN16<br>4.2 - Electrofusion and butt weld<br>4.3 - Couplings, Reducers, End Caps, Bends, Tees, Stub Flanges<br>4.4 - Flanges & SS backing rings to AS/NZS 4087 Fig B5 or B7<br>4.5 - SBR & EPDM | Agru   | Agruline  | Up to DN630  | Electrofusion fitting to be long type.<br>Stub flange may only be used for DN450 and larger sizes   | Sizes of DN630 and above which are machined fittings are subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP  | Accepted up to DN355   |   |   |  |
| 165     | PE fittings - Moulded  | George Fischer  |  |   |  |   |  |                                    |   |  |   |   |  |
| 166     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 167     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 168     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 169     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 170     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 171     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 172     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |
| 173     |  |   |  |   |  |   |  |                                    |   |  |   |   |  |

| A       | B  | C                            | D  | E  | F  | G   | H  | I  | J  | K   |  |
|---------|--|------------------------------|--|--|--|---|--|--|--|---|--|
| Product | WSAA Product Specification No. with Service Provider Specific Requirements   | Manufacturer / Supplier      | Trade Name   | Size Range   | Specified Requirements / Minimum Class   | The City of Gold Coast  | Logan City Council   | Redland City Council   | QUU  | Unitywater  |  |
| 1       | PE fittings- Fabricated  | Adroit                       | Adroit   |  | Butt Welded Fittings   |   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   |   |  |
| 174     |  |                              |  |  |  |   |  |  |  |   |  |
| 175     | Full face PE flanges   | Simona / Plasson             | Simona   |  |  |   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | <b>Not accepted by SP</b>  | Use is subject to acceptance by SP  |  |
| 176     |  | Plasson                      |  | DN80/DN100   | Slotted flanges & backing rings suit both DN80 and DN100 to WSAA 98/50   | Use of stub flanges is subject to acceptance by SP  |  |  |  |   |  |
| 177     |  | Iplex                        |  | Up to DN355  | Full bore connections  |   |  |  |  |   |  |
| 178     |  | Friatec / Vinidex            | Frialen  | Up to DN180  | Metal insert in the flange, backing rings not required   | Use is subject to acceptance by SP  |  |  |  |   |  |
| 179     |  | Rodney / Vinidex             | Maxi Stub  | Up to DN355  | Full bore connection   |   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   |  |   |  |
| 180     | Steel pipe   | Steel Mains                  | Sintapipe  | DN324 - 2159   | RRJ unless otherwise approved  | Use is subject to acceptance by SP<br>DN610 minimum size  | Use is subject to acceptance by SP<br>DN610 minimum size   | Use is subject to acceptance by SP<br>DN610 minimum size   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP  |  |
| 181     | Stainless Steel Pipe   | ASSDA accredited fabricators | N/A  | DN100 - DN750  | Min. Grade 316<br>Min. PN16<br>Flange to AS4087 Fig B5   | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP  |  |
| 182     | Resilient seated gate valves, thermal bonded polymeric coating   | AVK                          | Series 57 (light type only for DN100 & 150)<br>Series 570<br>Series 36/80<br>Series 01/71<br>Series 55 | Up to DN400<br>Up to DN400<br>Up to DN300<br>Up to DN300<br>DN450 to 600 |  | Some valves may not need by-pass (check with SEQ SPs).<br><br>All DI fittings to be wrapped<br><br>DN600 and larger valves shall be DeZurik Eccentric Plug Valves<br>Use of Karon / Challenger (FL-FL light weight design) is subject to acceptance by SP | Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP | Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP | Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP | Use of AVK SupaPlus restrained couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations |  |
| 183     |  | Hawle                        | E2   |  |  |   |  |  |  | Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.                |  |
| 184     |  | Viadux                       | Series 500<br>Auslite II<br>Auslite III  | DN200 - DN300<br>Up to DN 400<br>DN80 - DN600                            |  |   |  |  |  |   |  |
| 185     |  | Karon / Challenger           | Karon (FL-FL light weight design)<br>Karon (FL-FL integral bypass valves)                              | DN80 - DN300<br>DN450 - DN600  |  |   |  |  |  |   |  |
| 186     |  | AVFI                         |  |  |  |   |  |  |  | Use is subject to acceptance by SP  | <b>Not accepted by SP</b>  |
| 187     |  | Betta                        | BETTA  | DN80 - DN600   |  |   |  |  |  | Gripper type accepted up to DN150   | Use of Betta Valves with griper/restraint joint is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations |
| 188     |  | AAP Industries               | Maxiflo/appFLO   | DN80 to DN300  | WSAA Appraisal 11/26 Issue 2   |   |  |  |  |   |  |
| 189     |  | Derwent Industries           | Derwent  | DN80 - DN600   | WSAA Appraisal 1511  |   |  |  |  |   |  |
| 190     |  | DAEMCO                       |  | DN80 to DN300 for Soc-Sp<br>DN80 to DN375 for FL                         | WSAA Appraisal 1517 Issue 3  |   |  |  |  |   |  |
| 191     | DI fittings - tees and crosses with thermal bonded polymeric coating and built in resilient seated gate valves and vertical hydrant outlet | Hawle / Hygrade Water        | Combi Valve  | DN100, DN150 & DN200   | Thermal bonded polymeric coating is the standard material in WSA PS 201 and WSA PS 212.<br><br>All DI fittings to be wrapped | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | <b>Not accepted by SP</b>  | Use is subject to acceptance by SP   |   |  |
| 192     | Ball Valves  | AVFI                         | V1 Series - 1 Piece<br>V2 Series - 2 Piece<br>V3 Series - 3 Piece<br>V2FH Series- Flanged              | DN8 - DN50<br>DN8 - DN100<br>DN8 - DN100<br>DN15 - DN50                  | BSPT threaded connections.<br><br>Suitable for sewage  | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   |   |  |
| 193     | CC-GRP (centrifugally cast) pipe and Fittings - Sewer Pipe   | Superlit / Clover Pipelines  | Superlit   | DN400 - DN1400   | DI Fittings to WSA PS 201 for Tees and Bends   | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP<br>Coupling - Grade 316 Stainless Steel (min.)  |   |  |
| 194     | FW-GRP (filament wound) pipe and Fittings - Sewer Pipe   | Flowtite / Iplex             | Flowtite   | DN300 - DN3000   | DI Fittings to WSA PS 201 for Tees and Bends   | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP<br>Coupling - Grade 316 Stainless Steel (min.)  |   |  |
| 195     |  | Global Pipe                  | Fiberstrong  | DN300 - DN4000   |  |   |  |  |  |   |  |
| 196     |  | Superlit / Clover Pipelines  | Superlit   | DN300 - DN3000   |  |   |  |  |  |   |  |
| 197     | Flowmeter - Network Meter  | ABB                          | ABB  |  |  |   | Use is subject to acceptance by SP   |  | <b>NOT ACCEPTED BY SP</b>  | ABB Water master  |  |
| 198     |  | Siemens                      | Siemens  |  |  |   | Use is subject to acceptance by SP   |  | <b>NOT ACCEPTED BY SP</b>  | Use is subject to acceptance by SP  |  |
| 199     |  | E & H                        | E & H  |  |  |   |  | E & H 53W  |  | Use is subject to acceptance by SP  |  |
| 200     |  | Emerson                      | Emerson  |  |  |   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | <b>NOT ACCEPTED BY SP</b>   |  |

| A   | B  | C                            | D                          | E                       | F  | G  | H  | I   | J   | K   |
|---|--|------------------------------|----------------------------|-------------------------|--|--|--|---|---|---|
| Product                                       | WSAA Product Specification No. with Service Provider Specific Requirements   | Manufacturer / Supplier      | Trade Name                 | Size Range              | Specified Requirements / Minimum Class   | The City of Gold Coast   | Logan City Council   | Redland City Council  | QUU   | Unitywater  |
| <b>Category: SEWERAGE MISCELLANEOUS ITEMS</b> |  |                              |                            |                         |  |  |  |   |   |   |
| 202   | 290<br>4.1 - DN600<br>4.2 - Round Solid Top ( Conc Infill - QUU only ) Sealed Type<br>4.3 - 600 mm Clear Opening<br>4.4 - Class B and Class D<br>4.5 - Rocking of cover in frame not permitted<br>4.6 - Lifting Key as per Standard Drawings<br>4.7 - Markings to AS3996 Clause 1.6 (a) to (f).<br>4.8 - No Hinge<br>4.9 - Standard Packaging and Delivery<br>4.10 - QUU requires QUU cast into the cover as per Standard Drawings<br>4.11 - Standard Coating<br>4.12 - Bolt down for Surcharge and overland flow areas, 4 x M8 (min) SS316 Bolts<br>4.13 - by Standards | Gatic / Milne                |                            |                         | Refer Standard Drawings.<br><br>Covers with another Service Provider's name not accepted.<br><br>Use of Square and Rectangular Covers and Frames subject to SP approved based on Design needs                                | Concrete Infill Covers are NOT ACCEPTED BY SP  | Concrete Infill Covers are NOT ACCEPTED BY SP                                    | Concrete Infill Covers are NOT ACCEPTED BY SP   |   | Concrete Infill Covers NOT ACCEPTED BY SP                 |
| 203   |  | EJ                           |                            |                         |  |  |  |   |   |   |
| 204   |  | Webforge                     |                            |                         |  |  |  |   |   |   |
| 205   |  | Tellam                       |                            |                         |  |  |  |   |   |   |
| 206   |  | Durham                       |                            |                         |  |  |  |   |   |   |
| 207   |  | Hygrade                      |                            |                         |  |  |  |   |   |   |
| 208   | 292<br>4.1-DN<=450 Round<br>4.2-DN430 min clear opening<br>4.3-Standard Lifting Key<br>4.4-Markings to AS3996 Clause 1.6 (a) to (f)<br>4.5-Standard packaging<br>4.6-No specific markings required<br>4.7-No bolt down required  | Smartstream                  | Smartstream Top Hat- P8HDS |                         | DI-Class D   |  |  | Use is subject to acceptance by SP  | Use is subject to acceptance by SP                        |   |
| 209   |  | Smartstream                  | Smartstream Top Hat- P8PEC |                         | PE - Class B   |  |  |   |   |   |
| 210   |  | SYI Foundry/Aymroo           | Aymroo                     | 360 mm clear opening    | CI - Class B   |  |  |   |   |   |
| 211   | 292<br>4.1-DN>=600 Round<br>4.2-DN600 min clear opening<br>4.3-Standard Lifting Key<br>4.4-Markings to AS3996 Clause 1.6 (a) to (f)<br>4.5-Standard packaging<br>4.6-No specific markings required<br>4.7-Bolt down for Surcharge and overland flow areas, 2 x M8 min SS316 Bolts  | Terra Firma                  |                            |                         | Composite - Class B and D  | Non-Corrosive MH lids and frames are required for Discharge Manholes and all Manholes for sewers DN300 and larger<br>TMR approval is required on TMR roads | Use is subject to acceptance by SP   | Use is subject to acceptance by SP  | Use is subject to acceptance by SP                        | Use is subject to acceptance by SP                        |
| 212   |  | ACO SAKU                     |                            |                         | Composite - Class B  |  |  |   |   | Use is subject to acceptance by SP                        |
| 213   |  | Prime Composites             |                            |                         | Composite - Class B and D  |  |  |   |   | Use is subject to acceptance by SP                        |
| 214   |  | EJ                           | EJ SERVO                   |                         | Composite - Class B and D  |  |  |   |   | Use is subject to acceptance by SP                        |
| 215   | 290<br>4.1 - DN1000<br>4.2 - Two part round<br>4.3 - 920 mm Clear Opening<br>4.4 - Class C<br>4.5 - Rocking of cover in frame not permitted<br>4.6 - Hand grip lifting points<br>4.7 - No requirements<br>4.8 - Central Hinge not required<br>4.9 - Standard Packaging and Delivery<br>4.10 - No requirements<br>4.11 - No requirements<br>4.12 - 4 x 3/8" Allen Key SS 316 Bolts<br>4.13 - Nil Seat ring SS 316   | Treloar                      | MC1000-Manway Cover        | DN900                   | Class C<br>Fabricated S/Steel grade 316 ring<br>Nitrile gasket seal  |  |  | Use is subject to acceptance by SP  |   |   |
| 216   | 314<br>4.1 - Single Step<br>4.2 - Complies with Figure 5.10 of AS1657<br>4.3 - Steel bar internal with Plastic encapsulation or SS316<br>4.4 - Plastic encapsulation or SS316<br>4.5 - No reflectors required<br>4.6 - No other safety devices required  | Miyama / Nextep              | Miyama                     |                         | M053   | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP  |   | NOT ACCEPTED BY SP  |
| 217   |  | Aymroo                       | Aymroo                     |                         |  |  |  |   |   |   |
| 218   |  | C & C Plastics / Havestock   | Posistep                   |                         |  |  |  |   |   |   |
| 219   |  | Industrial Steps & Ladders   | Sure-Step                  |                         |  |  |  |   |   |   |
| 220   | 315<br>4.1 - Type D - Fixed Ladder with two Stiles<br>4.2 - PBT, FRP, SS316, Galvanised Steel or Aluminium<br>4.3 - By Standards<br>4.4 - By Standards<br>4.5 - Reflectors optional<br>4.6 - 150 mm from CL of rung to MH wall<br>4.7 - By Standards<br>4.8 - Colour as per material<br>4.9 - SS 316   | Miyama / Nextep              | Miyama                     |                         | Fibre reinforced plastics (yellow).<br><br>Brackets & Fasteners to be SS316.<br><br>Min. Clearances for Rung Type Ladders as per AS1657<br><i>Fixed Platforms, Walkways, Stairways and Ladders - Design and Installation</i> | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP  |   | NOT ACCEPTED BY SP  |
| 221   |  | Industrial Steps & Ladders   | Add-A-Step                 |                         | Revised installation procedure WSAA Product Update 1-2011, Subject to WSAA appraisal 5/11 and WSAA Product Alert 1-2010.<br><br>Brackets as per manufacture specification.<br><br>Fasteners to be SS316, Bright yellow.      |  |  |   |   |   |
| 222   |  | Galvanised Steel             |                            |                         | Refer to Standard Drawings   |  |  |   |   |   |
| 223   |  | Stainless Steel or Aluminium |                            |                         |  |  |  |   |   |   |
| 224   | 321<br>4.1 - As per Standards<br>4.2 - As per Specifications<br>4.3 - As per Standards<br>4.4 - Inlet and Outlet at DN150 to DN225<br>4.5 - Configurations as shown in Standard drawings<br>4.6 - As per accepted product<br>4.7 - Inlet and Outlet Sewer connection RRJ<br>4.8 - Cap as shown in Standard Drawings<br>4.9 - As per Standard Drawings<br>4.10 - Connect to PCV-U DWV pipe<br>4.11 - Max depth 3.0 metres FSL to Invert of Sewer Pipe   | Aymroo                       | Aymroo                     | DN300 PVC-U Riser Shaft | Configurations of "Central Axis" maintenance shaft (CAMS) are not accepted   | Refer to clause 6.7.2 of the SEQ Sewerage Code   | Refer to clause 6.7.2 of the SEQ Sewerage Code                                   | NOT ACCEPTED BY SP  | DN225 risers not accepted. Min DN300 risers are accepted. |   |
| 225   |  | SMS                          | SMS # MS3 DN150 Only       |                         |  |  |  |   |   |   |
| 226   | 322<br>4.1 - As per Standards<br>4.2 - As per Specifications<br>4.3 - As per Standards<br>4.4.a - Inlet and Outlet at DN150 to DN225 for PVC RIGSS<br>4.4.b - Inlet and Outlet at DN160 to DN250 for PE Nusewer<br>4.5 - Configurations as shown in Standard drawings<br>4.6 - As per accepted product<br>4.7.a - Inlet and Outlet PVC Sewer connection RRJ<br>4.7.b - Inlet and Outlet PE Sewer connection Electrofusion<br>4.8 - Cap as shown in Standard Drawings<br>4.9 - As per Standard Drawings<br>4.10 - Max depth 3.0 metres FSL to Invert of Pipe              | Smartstream                  | Poo-Pit                    |                         | RIGSS DN225 PVC riser shaft.<br>Nusewer fully welded with DN250 PE risers and sewer stubs.   | Approved for DN150 to DN225 RIGSS only.<br>Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options                                 | Approved for DN150 RIGSS only.<br>Refer to clause 6.7.2 of the SEQ Sewerage Code | Approved for DN150 to DN225 RIGSS only.<br>Refer to clause 6.7.2 of the SEQ Sewerage Code.<br>Refer Standard Drawing SEQ-SEW-1314 Set for other approved PE MS and MH options | Max depth of 5.0 meters is acceptable                     | DN225 risers not accepted. Min DN300 risers are accepted. |

| A       | B  | C                            | D               | E   | F  | G   | H   | I   | J                                  | K  |
|---------|--|------------------------------|-----------------|---|--|---|---|---|------------------------------------|--|
| Product | WSAA Product Specification No. with Service Provider Specific Requirements | Manufacturer / Supplier      | Trade Name      | Size Range  | Specified Requirements / Minimum Class   | The City of Gold Coast  | Logan City Council                                      | Redland City Council                                    | QUU                                | Unitywater   |
| 1       | Maintenance Shafts Polypropylene   | Iplex                        | EZipit PA 09/01 | DN425   | Refer Standard Drawings  |   |   |   | NOT ACCEPTED BY SP                 | NOT ACCEPTED FOR NUSEWER                                       |
| 227     |  | SMS                          |                 | SMS PA 09/08 parts 0 to 5 Code: MS1 Code: MS2 Code: MS5 | Refer Standard Drawings  |   |   |   | NOT ACCEPTED BY SP                 | NOT ACCEPTED FOR NUSEWER                                       |
| 228     |  | REHAU                        |                 | OD400-GD (Type H12) OD400-RML (Type H13)                |  |   |   |   |                                    |  |
| 229     |  |                              |                 |   |  |   |   |   |                                    |  |
| 230     | Maintenance Chambers Polypropylene   | Iplex                        | EZipit PA 09/01 | DN600   | Refer Standard Drawings  |   |   |   | Not accepted by SP                 |  |
| 231     |  | REHAU                        |                 | DN600   |  |   |   |   | Not accepted by SP                 |  |
| 232     | Maintenance Chambers Polyethylene (PE)/PVC                                 | Smartstream                  | Mini pit        | DN600   |  |   |   | Use is Subject to acceptance by SP                      | Use is Subject to acceptance by SP |  |
| 233     | Pre-cast Maintenance Holes   | Humes                        |                 | MH and MS DN150 and DN225 sewers                        | Refer Standard Drawings. Use for larger Sewer DN's and MH diameters is subject to acceptance by SP. Max depth of DN600 MS FSL to Invert of Pipe is 3.0 meters. | DN600 Pre-cast pre-benched Channel base and Bowl base Maintenance shafts approved as shown in Standard Drawings | Use of MS is subject to acceptance by SP                | Use of MS is subject to acceptance by SP                | NOT ACCEPTED BY SP                 | Pre-cast MHs accepted Use of MS is subject to acceptance by SP |
| 234     |  | Rocla                        |                 |   |  |   |   |   |                                    |  |
| 235     |  | Everhard                     |                 |   |  |   |   |   |                                    |  |
| 236     | Pre-cast Concrete Converter Slab for Cast In-situ MHs                      | Tellam                       |                 |   | Refer Standard Drawings. Calcareous aggregates to be used  |   |   |   |                                    |  |
| 237     |  | Australian Quality Precast   |                 |   |  |   |   |   |                                    |  |
| 238     |  | Aquarius Precast             |                 |   |  | Use is Subject to acceptance by SP  |   |   |                                    |  |
| 239     |  | First Contact Civil Supplies |                 |   |  |   |   | Use is Subject to acceptance by SP                      |                                    | Use is Subject to acceptance by SP                             |
| 240     | Plastic Maintenance Holes  | Smartstream                  | Smart Pit       | DN150 to DN300 sewers                                   | Refer Standard drawings Max depth FSL to Invert of Pipe is 3.0 meters  | Currently approved to be used as maintenance chamber or maintenance shaft only                                  | Use is subject to acceptance by SP                      | Use is subject to acceptance by SP                      | Use is subject to acceptance by SP |  |
| 241     | Vent poles   | RPC Technologies             |                 |   | Refer Standard Drawings. Tapered, Galvanised, height as design. Preferred colour: heritage or mist green   | Accepted option is RPC for a GRP pole @ designed height   | Accepted option is RPC for a GRP pole @ designed height | Accepted option is RPC for a GRP pole @ designed height | Use is subject to acceptance by SP | Use is subject to acceptance by SP                             |
| 242     |  | Ingal EPS                    |                 |   |  |   |   |   | Accepted Height 12.0 m             | Minimum accepted Height 6.0 m                                  |



| A       | B  | C   | D  | E  | F  | G   | H   | I   | J   | K  |                       |
|---------|--|---|--|--|--|---|---|---|---|--|-----------------------|
| Product | WSAA Product Specification No. with Service Provider Specific Requirements               | Manufacturer / Supplier   | Trade Name   | Size Range   | Specified Requirements / Minimum Class   | The City of Gold Coast  | Logan City Council  | Redland City Council  | QUU   | Unitywater   |                       |
| 243     | Valve box and cover C.I. & D.I.  | Viadux  |  |  | Refer Water Code Standard Drawings for approved Valve Box and Cover  |   |   |   |   |  |                       |
| 244     |  | NIBF  |  |  |  |   |   |   |   |  |                       |
| 245     |  | Gatic / Milne   |  |  |  |   |   |   |   |  |                       |
| 246     |  | Tellam  |  |  |  |   |   |   |   |  |                       |
| 247     |  | Hygrade Water   | Hygrade Water  |  |  |   |   |   |   | Use is subject to acceptance by SP   | Only Class D accepted |
| 248     | Loose PE sleeving to DI pipe   | Viadux  | BLUEBOSS Cream   |  | Mandatory sleeving to all DI pipe  | Gravity pipe Grey colour<br>Pressure pipe Cream colour  | Gravity pipe Grey colour<br>Pressure pipe Cream colour                          | Gravity pipe Grey colour<br>Pressure pipe Cream colour                          |   |  |                       |
| 249     |  | Cream Colour to POP203  | Crevet   |  |  |   |   |   |   |  |                       |
| 250     | Embedment material - crushed rock  | 351<br>4.1 - Single sized<br>4.2 - Nominal 5 or 7 mm  |  |  |  |   |   |   |   |  |                       |
| 251     | Embedment material - recycled concrete   | 366<br>4.1 - Single sized 10 mm nominal<br>4.2 - Moisture Content by design   | Queensland Recycling   |  |  | NOT ACCEPTED BY SP  | NOT ACCEPTED BY SP  | NOT ACCEPTED BY SP  |   | NOT ACCEPTED BY SP   |                       |
| 252     | Concrete-Normal Class  | 357<br>4.1 - As follows<br>N20 Thrust Blocks<br>N25 for reinforced embedment<br>4.2 - Slump as required for placement   |  |  |  |   |   |   |   |  |                       |
| 253     | Concrete-Special Class (for Maintenance hole and for concrete in aggressive environment) | 358<br>4.1 - SCC40 with Fly Ash/Type SR Portland Cement ratio of 0.25 to 0.30.<br>4.2 - Slump as required for placement<br>4.3 - Calcareous aggregate at 20 mm  |  |  |  | Calcareous aggregate size to be 10mm minimum.<br>Admixtures shall be non-chloride type  | Cast in-situ MH's<br>Refer details on Standard Drawings<br>Concrete N32 minimum | Cast in-situ MH's<br>Refer details on Standard Drawings<br>Concrete N32 minimum | Calcareous aggregate size to be 10mm minimum.<br>Admixtures shall be non-chloride type  | Calcareous aggregate size to be 10mm minimum.<br>Admixtures shall be non-chloride type |                       |
| 254     | Gas release valves   | 275<br>Refer Appendix B of AS4883<br>Size of Valve - DN50 BSP, DN50 to DN200 Flanged.<br>Class of valve - PN16<br>Type of Port - Full and Reduced port<br>Type of Valve - As per design needs<br>Hydraulic Data - By design to AS4883 Appendix B  | ARI Flow control<br>Bermad<br>Vent-O-Mat<br>Odour Technologies<br>AVFI<br>ISCO                                     |  | DN50-DN200   | PN16, Anti Slam as required, Thermal bonded polymeric coating or 316 Stainless steel  | DN225 and larger mains to only use Vinloc-Smartvalve                            | NOT ACCEPTED BY SP  | See drawing SEQ-SPS-1605-1 for standard gas release valve arrangement (manual operation). When QUU requires an automatic gas release valve, Vent Master PX is accepted. Use of others is subject to acceptance. | DN225 and larger mains to only use Vinloc-Smartvalve                                   |                       |
| 255     |  |   |  |  |  |   |   |   |   |  |                       |
| 256     |  |   |  |  |  |   |   |   |   |  |                       |
| 257     |  |   |  |  |  |   |   |   |   |  |                       |
| 258     |  |   |  |  |  |   |   |   |   |  |                       |
| 259     |  |   |  |  |  |   |   |   |   |  |                       |
| 260     | Non-return valves - Swing check with counterweight lever arm                             | 264<br>Refer Appendix B of AS4794<br>a) Class - PN16 min - Size by Design<br>b) Medium - Sewage<br>c) Installation - Horizontal<br>d) Spindle - Extended<br>e) Lever and Counterweight minimum with switches and indicators by Design<br>j) Flanged to AS 4087 Figure B5  | HMA Valveco<br>Dobbie Dico<br>AVK<br>AVK<br>Challenger Valves<br>AVFI Pty Ltd                                      | Valmatic Swing-flex<br>Dobbie Dico<br>AVK Swing Check Valve 41/25<br>AVK Swing Check Valve 41/8X<br>Challenger - RSSC<br>AVFI - RSFC | DN50 - DN600<br>DN80-DN900<br>DN50<br>DN80-DN300<br>DN80-DN375<br>DN50-DN300   | MIN. PN16, Thermal bonded polymeric coating   | NOT ACCEPTED BY SP  | Use is subject to acceptance by SP  | Use is subject to acceptance by SP  | NOT ACCEPTED BY SP   |                       |
| 261     |  |   |  |  |  |   |   |   |   |  |                       |
| 262     |  |   |  |  |  |   |   |   |   |  |                       |
| 263     |  |   |  |  |  |   |   |   |   |  |                       |
| 264     |  |   |  |  |  |   |   |   |   |  |                       |
| 265     |  |   |  |  |  |   |   |   |   |  |                       |
| 266     | Non-return valves - free acting (without counterweight) Swing Check                      | 264<br>Refer Appendix B of AS4794<br>a) Class - PN16 min - Size by Design<br>b) Medium - Sewage<br>c) Installation - Horizontal<br>d) Spindle - Extended<br>j) Flanged to AS 4087 Figure B5   | HMA Valveco<br>Dobbie Dico<br>AVK<br>AVK<br>Challenger Valves<br>AVFI Pty Ltd                                      | Valmatic Swing-flex<br>Dobbie Dico<br>AVK Swing Check Valve 41/25<br>AVK Swing Check Valve 41/8X<br>Challenger - RSSC<br>AVFI - RSFC | DN50 - DN600<br>DN80-DN900<br>DN50<br>DN80-DN300<br>DN80-DN375<br>DN50-DN300   | MIN. PN16, Thermal bonded polymeric coating   | NOT ACCEPTED BY SP  | Use is subject to acceptance by SP  | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   |                       |
| 267     |  |   |  |  |  |   |   |   |   |  |                       |
| 268     |  |   |  |  |  |   |   |   |   |  |                       |
| 269     |  |   |  |  |  |   |   |   |   |  |                       |
| 270     |  |   |  |  |  |   |   |   |   |  |                       |
| 271     |  |   |  |  |  |   |   |   |   |  |                       |
| 272     | PVC-U Fabricated Fittings Fibreglass reinforced PVC Type 'D' junctions & fittings        | Vinidex   | Deep Sewer Junction & Reinforced Fittings such as Oblique Junctions and House Connection Bends and Inspection Tees | DN100-300  | DWV uPVC Moulded Fitting reinforced to SEQ Standards.<br>Type D Junction from moulded fittings welded and fibreglass wrapped.<br>45 Deg Oblique Jn and Property Connection bends and Inspection Tees fibreglass wrapped.<br>Fabricator has Certification to Section 6 of AS/NZS 1260 and fittings Fibreglass wrapped as shown on the drawings SEQ-SEW-1104-1 and SEQ-SEW-1105-1. |   |   |   | NOT ACCEPTED BY SP  | DN100 at SN10, DN150 and larger at SN8 and Fittings at SN8 minimum                     |                       |
| 273     |  | Iplex   |  |  |  |   |   |   |   |  |                       |
| 274     |  | Holman Industries   |  |  |  |   |   |   |   |  |                       |
| 275     |  | M.E. Christensen  |  |  |  |   |   |   |   |  |                       |
| 276     | PVC-U SN8 long radius bends  | 236<br>4.1 - SN8 minimum<br>4.2.1 - DN150 only, 3.0 metres radius as a heat formed bend with standard socket and spigot RRJ ends. No ovality variation permitted.<br>4.2.2 - DN225 only, 3.0 metres radius preferred, spigot spigot ends as a heat formed bend or as a fibreglass wrapped fabricated bend with 7.5 degree segments with 300 mm to 400 mm segment length on inside springline<br>4.2.3 - All long radius bends by Certified fabricators to AS/NZS 1260 Section 6<br>4.3 - SBR & EPDM | Vinidex<br>Iplex<br>Tri Underground<br>Holman Industries<br>M.E. Christensen                                       | Long radius 3000 mm bends<br>DN150 as bent pipe & DN225 as bent or fabricated pipe   | AS/NZS 1260 SN8.<br>DN150 Bends available from 5Deg to 45Deg.<br>DN225 and larger individually fabricated to 45Deg.  | Use is subject to acceptance by SP  | Use is subject to acceptance by SP  | NOT ACCEPTED BY SP  |   |  |                       |
| 277     |  |   |  |  |  |   |   |   |   |  |                       |
| 278     |  |   |  |  |  |   |   |   |   |  |                       |
| 279     |  |   |  |  |  |   |   |   |   |  |                       |
| 280     |  |   |  |  |  |   |   |   |   |  |                       |
| 281     | PVC-U fully moulded SN8 and SN10 junctions and bends                                     | 230<br>4.1-Plain wall<br>4.2-RRJ<br>4.3-Min SN10 for DN100 and SN8 for DN150 and larger<br>4.4-NBR or SBR or EPDM<br>4.5-One piece fully moulded<br>4.6-Fibre reinforcement is not required   | Holman Industries  | Holman/Fabfit  | DN100 and DN150  | Currently approved are:<br>SN8 100x150 Junction<br>SN10 M/F 100x43 Bend<br>SN10 F/F 100x43 Bend<br>These one piece fully moulded fittings are to be used for Type A and B sewer property connections and are approved alternatives to the currently approved multi-piece fabricated fibre reinforced fittings | SN rating (SN8 or SN10) shall be written on the fittings                        | Use is subject to acceptance by SP  | Use is subject to acceptance by SP  | SN rating (SN8 or SN10) shall be imprinted on the surface of fittings                  |                       |
| 282     | Detectable marker tape   | 318<br>4.1 - Tape/Product Colour - Drinking Water = Blue<br>Non-Drinking Water = Purple.<br>Sewerage = Cream<br>4.2 - Message = "Caution ASSET DESCRIPTION Buried Below" or "Danger Buried ASSET DESCRIPTION Below"<br>4.3 - SS 316 tracer wire<br>4.4 - See 4.1 above  | Boddingtons<br>Tapex<br>Rain Harvesting  | 421  |  |   |   |   |   |  |                       |
| 283     |  |   |  |  |  |   |   |   |   |  |                       |
| 284     |  |   |  |  |  |   |   |   |   |  |                       |
| 285     | Tracer wire  | 343<br>4.1 - CCS shall be AISI 1055 grade or higher<br>4.2 - Wire gauge Shall be 12 or thicker<br>4.3 - Minimum 520Kg<br>4.4 - Minimum 45mil<br>4.5 - minimum 1%<br>4.6 - as per standards<br>4.7 - as per standards<br>4.8 - Blue for Water Supply, Purple for Recycled Water and Cream for Pressure Sewer.  | Tapex  | Copperhead   | 500, 1000 and 2500 (feet)  | Approved are SoloShot EHS and SoloShot Xtreme for HDD and Pipe bursting etc.<br>Connectors to be used are:<br>• Pipe burst connector,<br>• DryConn 3-way direct bury lug connector<br>• DryConn direct bury twist on connector<br>Use of test station and/or grounding anode is accepted                      |   |   |   |  |                       |

|     | A   | B   | C                           | D                               | E  | F  | G  | H  | I   | J                                  | K   |
|-----|---|---|-----------------------------|---------------------------------|--|--|--|--|---|------------------------------------|---|
|     | Product   | WSAA Product Specification No. with Service Provider Specific Requirements  | Manufacturer / Supplier     | Trade Name                      | Size Range   | Specified Requirements / Minimum Class   | The City of Gold Coast   | Logan City Council   | Redland City Council  | QUU                                | Unitywater  |
| 1   | Security fencing                                  |   |                             |                                 |  | AS1725.1 Chain Link Fabric Fencing-powder coated black   | Fence details generally to CoGC Standard Drawing 05-014  | Fence details generally to CoGC Standard Drawing 05-014  | Fence details generally to CoGC Standard Drawing 05-014   |                                    |   |
| 286 | Hydrophilic Seal                                  |   |                             | Hydrolite                       |  |  |  |  |   |                                    |   |
| 287 |   |   |                             | HDX Series                      | Runner height of 38, 65, 90 and 125 mm   | For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes  |  |  |   |                                    |   |
| 288 | Casing Spacers                                    | 324<br>4.1 - Carrier pipes OD from 100mm to 1668mm<br>4.2 - Min space between carrier pipes and encasing pipes 50mm   | kwik-ZIP                    | HD Series                       | Runner height of 30, 50, 75 and 100mm<br>110mm OD to 355mm OD (un-grouted annulus).<br>May be used on carrier pipe diameters greater than 355mm OD where the annulus will be grouted | For SCL, DI, PE, PVC and GRP carrier pipes   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP  | Use is subject to acceptance by SP |   |
| 289 |   |   |                             |                                 |  |  |  |  |   |                                    |   |
| 290 | Camlock   |   |                             |                                 |  | S/Steel 316  |  |  |   |                                    | Maximum DN100   |
| 291 |   |   | Steuler                     |                                 |  |  |  |  |   |                                    |   |
| 292 | Protective internal lining - Polyethylene         |   | Agrusafe                    |                                 | min. 2.5 mm thickness  | Mechanically anchored PE lining cast into wall & underside of top slab - Light colour  |  |  |   |                                    | PE lining Mandatory for Sewerage Pump Stations, Collector Manholes and Sewer Rising Main Discharge Manholes |
| 293 |   |   | Bluey Technologies          |                                 |  |  |  |  |   |                                    |   |
| 294 |   |   | AKS                         |                                 |  |  |  |  |   |                                    |   |
| 295 |   |   | Peerless Industrial Systems | Epigen 4029                     |  |  |  |  |   |                                    |   |
| 296 |   |   |                             | Epigen 1311 Ultra               |  |  |  |  |   |                                    |   |
| 297 |   |   | Sika Australia              | Sikagard - 63N                  |  |  |  |  |   |                                    |   |
| 298 |   |   | Hychem Epoxy Systems        | Hychem TL5                      |  |  |  |  |   |                                    |   |
| 299 |   |   | International Paints        | Ceilcoat 2000 Flakeline         |  |  |  |  |   |                                    |   |
| 300 | Protective internal coating - other coating types | WSA 201 Manual for Selection and Application of Protective Coatings. SEQ SPs requirements:<br>• Two component epoxy, solvent free, 100% solids<br>• Suitable for provision of single coats >=0.6mm thick<br>• Excellent stated resistance to Sulphuric Acid via Test results<br>• Minimum 15 minute Pot Life at 20 degrees C<br>• Light coloured<br>• Applied to manufacturers requirements<br>• Combined 10 year warranty from Applicator and Manufacturer |                             | ITWPF                           | Epirez 733UHB  |  | Colour white to grey   | Internal coatings at 2.0 mm thick via minimum of two coats – this requirement overrides Note G14 on SEQ-SPS-1402-1.<br><br>Use is subject to acceptance by SP (minimum 2.0 mm thickness)<br>Excellent resistance to Sulphuric Acid | Use is subject to acceptance by SP (minimum 2.0 mm thickness)<br>Excellent resistance to Sulphuric Acid | Use is subject to acceptance by SP | Use is subject to acceptance by SP (minimum 2.0 mm thickness)   |
| 301 |   |   |                             | Fernco / JDP Applications       | Ultracoat Epoxy Coating  |  |  |  |   |                                    |   |
| 302 |   |   |                             | Interflow                       | Quadex Aluminaliner Plus   |  |  | Use is subject to acceptance by SP   |   |                                    |   |
| 303 |   |   |                             | BASF                            | MasterSeal 7000CR  |  |  |  |   |                                    |   |
| 304 |   |   | Building Chemical Supplies  | Ombran MHP<br>Ombran MHP SP3000 |  | Accepted are Ombran MHP15 and MHP SP3000<br>Cementitious profiling and coating with min thickness of 12mm to be used for concrete MH repairs |  | Use is subject to acceptance by SP   |   |                                    |   |
| 305 | Protective external coating                       | WSA 201 Manual for Selection and Application of Protective Coatings. SEQ SPs requirements:<br>Two Component solvent free polyurethane<br>• Suitable for provision of single coats >=0.6mm thick<br>• Excellent stated resistance to Sulphuric Acid via Test results<br>• Minimum 15 minute Pot Life at 20 degrees C<br>• Light coloured<br>• Applied to manufacturers requirements<br>• Combined 10 year warranty from Applicator and Manufacturer          | Steuler KCH                 | Oxydur PTB                      |  | Colour white to grey & heritage green  | Use is subject to acceptance by SP.<br><br>External coatings at min 0.3 mm thick dry film via single coat.<br><br>Sulphuric Acid Resistance to suit site conditions.<br><br>SP Approved Equivalents are the listed Internal coatings | Use is subject to acceptance by SP (minimum 2.0 mm thickness)<br>Excellent resistance to Sulphuric Acid  | Use is subject to acceptance by SP (minimum 2.0 mm thickness)<br>Excellent resistance to Sulphuric Acid | Use is subject to acceptance by SP | Use is subject to acceptance by SP (minimum 2.0 mm thickness)   |

| A  | B  | C  | D                          | E   | F   | G   | H  | I   | J                                    | K   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
|--|--|--|----------------------------|---|---|---|--|---|--------------------------------------|---|------------------------------------|--|---|------------------------------------|--------------------|--|---|--|------------------------------------|--------------------|---|--|--|--|--|--|------------|----------------------------------|---|------------------------------------|------------------------------------|
| Product  | WSAA Product Specification No. with Service Provider Specific Requirements | Manufacturer / Supplier  | Trade Name                 | Size Range  | Specified Requirements / Minimum Class                                | The City of Gold Coast  | Logan City Council   | Redland City Council  | QUU                                  | Unitywater  |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| <b>Category: WATER SUPPLY PIPES - PRESSURE</b> |  |  |                            |   |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 306  |  |  |                            |   |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 307  | PVC-M pipe   | 209  | Iplex                      | Reiber Blue   | Series 2 PN16, Min SN 10.   |   |  |   | Only accepted where PE is unsuitable | NOT ACCEPTED BY SP  |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 308  |  | 4.1 - PN16   | Vinidex                    | Hydro Blue  |   |   |  |   |                                      |   | DN100 to DN300                     |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 309  |  | 4.2 - Drinking Water   | Viadux                     | Tuf-Flo   |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 310  |  | 4.3 - Series 2 only  | Micron Pipelines           | Micron Pipelines  |   |   |  |   |                                      |   | DN100 to DN300                     |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 311  |  | 4.4 - Blue<br>4.5 - SBR & EPDM   | Pipemakers                 | Pipemakers Enviromain   |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 312  | PVC-O pipe   | 210  | Iplex                      | Apollo Blue   | Series 2 PN16, Min SN 10<br>MRS400 or MRS450                          |   | SP USE ONLY  | Use is subject to acceptance by SP  | NOT ACCEPTED BY SP                   |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 313  |  | 4.1 - PN16   | Vinidex                    | Supermain   |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 314  |  | 4.2 - MRS400 or MRS450   | Micron Pipelines           | Micron Pipelines  |   |   |  |   |                                      |   | DN100 - DN375                      |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 315  |  | 4.3 - Water main   | Pipemakers                 | Alphamain   |   |   |  |   |                                      |   | DN100 to DN150                     |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 316  |  | 4.4 - Series 2 only, Blue for Drinking Water and Purple for Non-Drinking Water refer POP203<br>4.5 - SBR & EPDM  |                            | TOM®  |   |   |  |   |                                      |   | Up to DN 375                       |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 317  | DICL Pipe  | 200<br>4.1 - All Pressure Classes - see Column F<br>4.2 - As per Standards<br>4.3 - As per accepted product<br>4.4 - All fittings to be Fusion Bonded Polymeric Coated<br>4.5 - Restraint Joint Seals by approval<br>4.6 - SBR and EPDM<br>4.7 - PE sleeving is required on ALL DI pipes, including those with zinc-aluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment | Vinidex                    | ZAP-GP  | DN250 - DN750 (not 225)   | PN 20   | NOT ACCEPTED BY SP   | Use is subject to acceptance by SP  | NOT ACCEPTED BY SP                   | Seal coat on pipes >= 450<br>Seal coat requirement is dependant on water quality.<br>PN20 - Use is subject to acceptance by SP  |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 318  |  |  | Clover Pipelines           | Clover/Xinxing (ZnAIRE400)  |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 319  |  |  | Beaver-Jindal Australia/NZ |   | DN225 to DN750  |   |  |   |                                      |   | Use is subject to acceptance by SP | Seal coat on pipes >= 450<br>PN20 - Use is subject to acceptance by SP<br>Use of Vinidex ZAP products is subject to acceptance by SP | Seal coat on pipes >= 450<br>Use of Vinidex ZAP and Beaver-Jindal products is subject to acceptance by SP | Use is subject to acceptance by SP | NOT ACCEPTED BY SP | Restraint joint seals not suitable for:<br>PN20 pipe;<br>Aboveground applications;<br>Combining joint restraint and thrust blocks;<br>Epoxy or fusion coated spigots<br>Other manufacturers sockets or other pipe materials.<br>Use of Clover Pipelines and Beaver-Jindal is subject to acceptance by SP |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 320  |  |  | Beaver-Jindal Australia/NZ |   |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 321  |  |  | Crevet / Iplex             | Ironite (XINAL400+ coating)   | Up to DN 750 (not 225)  |   |  |   |                                      |   | PN 35 and Flange Class             |  |   |                                    |                    |  | Seal coat on all pipe sizes<br>Coating shall be minimum 400g/m2 Zn-Al alloy +100µm synthetic resin, or minimum 900µm polyurethane or approved equivalent. | Use of Vinidex ZAP and Beaver-Jindal products is subject to acceptance by SP | Use is subject to acceptance by SP | NOT ACCEPTED BY SP | Use of Clover Pipelines, Vinidex ZAP products are subject to acceptance by SP |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 322  |  |  | Vinidex                    | ZAP-GP  |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 323  |  |  | Saint-Gobain               | PAM/TYTON Hydroclass Zinalium   | DN100 - DN750 (not 225)   |   |  |   |                                      |   | Use is subject to acceptance by SP |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 324  |  |  | Viadux                     | PAM/TYTON Hydroclass Zinalium   |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 325  |  |  | Clover Pipelines           | Clover/Xinxing (ZnAIRE400)  |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 326  |  |  | DI Pipe - ISO              | 202<br>4.1 - K9-PN35<br>4.2 - Soc-Soc & Sp-Sp & FI-FI & FI-Soc/Sp<br>4.3 -Restrained Joints on Zinc/Bitumen coated pipe<br>4.4 -Polyurethane without seal coating<br>4.5 - Only Polyurethane coating on aerial pipes<br>4.6 - SBR, EPDM or NBR<br>4.7 - PE sleeving is required on ALL DI pipes, including those with zinc-aluminium alloy coating, unless pipe manufacturer/supplier can guarantee it is not needed following comprehensive soil testing and risk assessment | VonRoll / Reece   |   |  |   |                                      |   | Ducpur/ Ecopur                     |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  | DN80 - 700 | Polyurethane internal protection | Detector Tape for ISO Pipe spirally wound along pipe and over PE sleeve on Zinc/Bitumen pipe. | Use is subject to acceptance by SP | Use is subject to acceptance by SP |
| 327  | Small DN Ductile Iron Water Main pipe at PE OD's                           |  | Saint-Gobain PAM           | BLUTOP  | DN75-DN160  | Restrained Joints PN16.<br>Unrestrained joints PN25   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP  |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 328  | SCL pipe   | 203<br>4.1 - MPa 1.6 minimum<br>4.2 - DN by Design subject to SP approval<br>4.3 - Seal Coat required for DN450 and larger<br>4.4 - Sintakote minimum for above ground<br>4.5 - Joint requirements by Design<br>4.6 - Cathodic Protection by design<br>4.7 - Standard pressure tests<br>4.8 - Sintapipe lining option<br>4.9 - SBR & EPDM<br>4.10 - Sintakote minimum  | Steel Mains                | Sintakote   | OD114, 168, 219, 257, 273, 324 to 2159.                               | Minimum thickness DN100 - 4.8 mm, >DN100 - 5 mm   | Accepted for sizes >DN600  | Accepted for sizes >DN600   | Accepted for sizes >DN600            | Only accepted where PE is unsuitable<br>Seal Coat requirement is dependant on water quality   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 329  | PE pipe  | 207<br>4.1 - PN16 SDR11 PE100<br>4.2 - Drinking and Non-Drinking Water<br>4.3 - Pipes lengths for DN160 and larger and coils accepted for DN110 and smaller<br>4.4 - Mains Colour Blue Solid for Drinking Water and Purple solid for Non-Drinking Water with Water Service pipe Black with Blue Stripes for Drinking Water and Purple solid for Non-Drinking Water, refer POP203.<br>4.5 - PE100 only  | Iplex                      |   | DN25, 32, 40, 50, 63, 90, 125, 180, 250, 315, 355, 450, 560, 630, 800 | PE100 PN16.<br><br>Blue colour - solid or striped for drinking water.<br><br>Purple colour - solid for non-drinking water.<br><br>For directional drilling installations, minimum SDR 9 (PN20 PE100) unless specified otherwise and install with tracer wire. Pipe wall thickness to be designed for installation forces. | 1 - Used as Water Service pipe at DN25 and larger<br>2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply<br>3 - Used as A+ Non Drinking Water main for Cul-de-sac terminal end at DN63 in Dual Water Supply<br>4 - Used as Drinking Water main for Cul-de-sac terminal end at DN63 in traditional Drinking Water Reticulation | *Approved for water services and water mains <= DN63 only. Other uses, or the use of larger diameters, are subject to acceptance* | Use is subject to acceptance by SP   | PE is preferred pipe material for single and dual water supply systems - PE shall be used unless specific site conditions dictate otherwise. Either solid or striped colours are permitted for single and/or dual water supply systems. |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 330  |  |  | Vinidex                    |   |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 331  |  |  | DMG                        |   |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 332  |  |  | Cromford                   | Identi-pipe   |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 333  |  |  | Poly Pipe                  |   |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 334  |  |  | Viadux                     | Advantage/TYCO10  |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 335  |  |  | Enviropipes                | Enviropressure  |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 336  |  |  | ASA                        | Blueline  |   |   |  |   |                                      |   |                                    | DN25 to DN125  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 337  | ACP  | ACP  | DN25 to DN315              |   |   |   |  |   |                                      |   |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |
| 338  | PE pipe - High Stress Crack Resistant (HSCR) Polyethylene Pipe             | 207, POP016<br>4.1 - PN16 minimum<br>4.2 - Drinking and Non-Drinking Water<br>4.3 - Pipes lengths for DN160 and larger and coils accepted for DN110 and smaller<br>4.4 - Mains Colour Blue Solid for Drinking Water and Purple solid for Non-Drinking Water with Water Service pipe Black with Blue Stripes for Drinking Water and Purple solid for Non-Drinking Water, refer POP203.<br>4.5 - HSCR PE100 only   | Iplex                      | Millennium HSCR PE  | DN25 32 40 50 63 90 125 180 250 315 355 450 560 630 800               | For directional drilling and pipe bursting installations, minimum SDR 9 (PN20 HSCR PE100) unless specified otherwise and install with tracer wires. Pipe wall thickness to be specified as normal PE100 as such "extra" strength should be provided.  | 1 - Used as Water Service pipe at DN25 and larger<br>2 - Used as Drinking Water main at DN63 and DN110 in Dual Water Supply<br>3 - Used as A+ Non Drinking Water main for Cul-de-sac terminal end at DN63 in Dual Water Supply<br>4 - Used as Drinking Water main for Cul-de-sac terminal end at DN63 in traditional Drinking Water Reticulation | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP  |                                    |  |   |                                    |                    |  |   |  |                                    |                    |   |  |  |  |  |  |            |                                  |   |                                    |                                    |

|     | A  | B   | C                            | D           | E              | F  | G  | H   | I   | J                                  | K                                  |
|-----|--|---|------------------------------|-------------|----------------|--|--|---|---|------------------------------------|------------------------------------|
| 1   | Product  | WSAA Product Specification No. with Service Provider Specific Requirements  | Manufacturer / Supplier      | Trade Name  | Size Range     | Specified Requirements / Minimum Class                   | The City of Gold Coast                                       | Logan City Council  | Redland City Council  | QUU                                | Unitywater                         |
| 339 | Copper pipe  | 214<br>4.1 - Annealed for all pipe<br>4.2 - Natural pipe colour   | Port Kembla Copper           |             |                |  | Use is subject to acceptance by SP                           | Use is subject to acceptance by SP                          | Use is subject to acceptance by SP                          |                                    | Use is subject to acceptance by SP |
| 340 | CC-GRP (centrifugally cast) pipe and Fittings - Water main | 237<br>4.1 - PN16 minimum<br>4.2 - SN 10,000 minimum<br>4.3 - Sp-Sp RRJ Coupling and FI Joints<br>4.4 - Standard Glass<br>4.5 - SBR & EPDM  | Superlit / Clover Pipelines  | Superlit    | DN400 - DN1400 | Minimum SN10000, PN16                                    | Use is subject to acceptance by SP.<br>DI Fittings preferred | Use is subject to acceptance by SP<br>DI Fittings preferred | Use is subject to acceptance by SP<br>DI Fittings preferred | Use is subject to acceptance by SP | Use is subject to acceptance by SP |
| 341 | FW-GRP (filament wound) pipe and Fittings - Water main     | 205<br>4.1 - DN300 and larger<br>4.2 - PN16 minimum<br>4.3 - SN 10,000 minimum<br>4.4 - Standard bend forms permitted<br>4.5 - Sp-Sp RRJ Coupling and FI Joints<br>4.6 - Standard Glass<br>4.7 - SBR & EPDM | Flowtite / Iplex             | Flowtite    | DN300 - DN3000 | Minimum SN10000, PN16                                    | Use is subject to acceptance by SP.<br>DI Fittings preferred | Use is subject to acceptance by SP<br>DI Fittings preferred | Use is subject to acceptance by SP<br>DI Fittings preferred | Use is subject to acceptance by SP | Use is subject to acceptance by SP |
| 342 |  |   | Global Pipe                  | Fiberstrong | DN300 - DN4000 |  |  |   |   |                                    |                                    |
| 343 |  |   | Superlit / Clover Pipelines  | Superlit    | DN300 - DN3000 |  |  |   |   |                                    |                                    |
| 344 | Stainless Steel Pipe                                       | No WSA-SP<br>WSAA Materials Fact Sheet No:2 Selection of Stainless Steels<br>WSAA Materials Fact Sheet No:3 Fabricating Stainless Steels  | ASSDA accredited fabricators | N/A         | DN100 - DN750  | Min. Grade 316.<br>Min. PN16.<br>Flange to AS4087 Fig B5 | Use is subject to acceptance by SP                           | Use is subject to acceptance by SP                          | Use is subject to acceptance by SP                          | Use is subject to acceptance by SP | Use is subject to acceptance by SP |

| A   | B  | C   | D   | E   | F  | G   | H                                  | I                                  | J                                  | K  |  |
|---|--|---|---|---|--|---|------------------------------------|------------------------------------|------------------------------------|--|--|
| Product   | WSAA Product Specification No. with Service Provider Specific Requirements | Manufacturer / Supplier   | Trade Name  | Size Range  | Specified Requirements / Minimum Class   | The City of Gold Coast  | Logan City Council                 | Redland City Council               | QUU                                | Unitywater   |  |
| <b>Category: WATER SUPPLY FITTINGS - PRESSURE</b> |  |   |   |   |  |   |                                    |                                    |                                    |  |  |
| 346   | Lightweight DI bends, tees/branches & connectors                           | 201<br>4.1 - Soc-Soc, Soc-FI & FI-FI<br>4.2 - PN16 fittings<br>4.3 - By approval<br>4.3 - SBR & EPDM  | Viadux  | Auslite   | DN100 & DN150  | Lightweight fittings.<br><br>Thermal bonded polymeric coating.<br><br>All DI fittings to be wrapped   | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP   |  |
| 347   |  |   | Dobbie Dico                                       | Dobbie  | DN100 to DN150   |   |                                    |                                    |                                    |  |  |
| 348   |  |   | Himigiri Castings/Galvin Engineering / CivilPipes | Galvin  | DN100 & DN150  |   |                                    |                                    |                                    |  |  |
| 349   |  |   | Clover Pipelines                                  | Clover  | DN100 to DN150   |   |                                    |                                    |                                    |  |  |
| 350   | DI bends, tapers, tees/branches, connectors, risers & caps/blank ends      | 201<br>4.1 - Soc-Soc, Sp-Sp, FI-FI, Soc-Sp, Soc-FI & Sp-FI<br>4.2 - Standard and PN16 fittings<br>4.3 - Restraint Joint Seals by SP approval<br>4.4 - SBR & EPDM  | Viadux  | Tyton Joint   | Up to DN750<br><br>DN100 & DN150<br><br>DN80 to DN300<br><br>DN100 to DN250<br><br>DN80 to DN750<br><br>DN100 to DN150<br><br>DN80 - DN375 | Thermal bonded polymeric coating.<br><br>All DI fittings to be wrapped  | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Restraint joint seals not suitable for: PN20 pipe; Aboveground applications; Combining joint restraint and thrust blocks; Epoxy or fusion coated spigots; Other manufacturers sockets or other pipe materials.<br><br>Use of Restrained Joint Rubber Rings (Tyton-lok) subject to acceptance by SP |  |
| 351   |  |   | Crevet / Iplex                                    | Crevet  |  |   |                                    |                                    |                                    |  |  |
| 352   |  |   | Vinidex   | Superlink   |  |   |                                    |                                    |                                    |  |  |
| 353   |  |   | Derwent   |   |  |   |                                    |                                    |                                    |  |  |
| 354   |  |   | Gillies   |   |  |   |                                    |                                    |                                    |  |  |
| 355   |  |   | Himigiri Castings/Galvin Engineering / CivilPipes | Galvin  |  |   |                                    |                                    |                                    |  |  |
| 356   |  |   | Dobbie Dico                                       | Dobbie  |  |   |                                    |                                    |                                    |  |  |
| 357   |  |   | Mallet  | Mallet  |  |   |                                    |                                    |                                    |  |  |
| 358   |  |   | Clover Pipelines                                  |   |  |   |                                    |                                    |                                    |  |  |
| 359   | Daemco   | Daemco  |   |   |  |   |                                    |                                    |                                    |  |  |
| 360   | DI mechanical couplings - Non End Thrust Restraint                         | 270<br>4.1 - PN16<br>4.2 - All pipe materials except PE<br>4.3 - Long Series<br>4.4 - Straight Soc-Soc<br>4.5 - Stepped coupling require SP approval<br>4.6 - Flange end not used<br>4.7 - SBR & EPDM<br>And SS316 bolts, nuts and washers  | Viadux  | Gibault Ezigib & Vari-Gib                             | Up to DN750<br><br>Up to DN675<br><br>DN80 to DN750<br><br>Up to DN 600<br><br>DN80 to DN375   | Long type only.<br><br>All DI fittings to be wrapped.<br><br>DI must have thermal bonded polymeric coating  | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Caps / Blanks Ends not accepted<br>Blank ends not accepted, FI-Soc & FI-Sp Connectors accepted up to DN375   |  |
| 361   |  |   | Crevet  | Gibault & Universal Multigib                          |  |   |                                    |                                    |                                    |  |  |
| 362   |  |   | AVK   | Gibault & Universal                                   |  |   |                                    |                                    |                                    |  |  |
| 363   |  |   | Viking Johnson                                    | AVK Supa-Gib Couplings                                |  |   |                                    |                                    |                                    |  |  |
| 364   |  |   | Derwent   | MaxiFit, QuickFit                                     |  |   |                                    |                                    |                                    |  |  |
| 365   |  |   | DEKS  | DEKS FLEXI-GIB  |  |   |                                    |                                    |                                    |  |  |
| 366   |  |   | Daemco  | Reinoversal   |  |   |                                    |                                    |                                    |  |  |
| 367   |  |   | Clover Pipelines                                  | Connect VPC   |  |   |                                    |                                    |                                    |  |  |
| 368   |  |   |   |   |  |   |                                    |                                    |                                    |  |  |
| 369   | DI mechanical couplings - End Thrust Restraint (Gripper Type)              | 271<br>4.1 - PN16<br>4.2 - DI<br>4.3 - Short and Long Series<br>4.4 - Straight and Stepped and Flange Adaptor<br>4.5 - All DN Range options<br>4.6 - Flange Figure as specified with SS316 bolts, nuts and washers<br>4.7 - SBR & EPDM & Nitrile<br>And SS316 bolts, nuts and washers | Hawle / Hygrade Water                             | Synoflex PN16 Restraint coupling for AC, DI, SCL      | DN50-DN300   | Synoflex and +GF+ 3000 Plus are manufactured to EN14525:2005, not Australian standards. Therefore the fitting gripper socket DN may not suit the same pipe DN for some pipe materials and sizes (e.g. DN200 CIOD pipes). In this case a larger gripper socket DN may need to be used. Contractors need to check the suitable gripper socket DN for their pipes. | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | The use of gripper type fittings on AC, DI and SCL pipe subject to acceptance by SP  |  |
| 370   |  |   | +GF+  | Multi/ joint 3000 Plus restraint type for AC, DI, SCL |  |   |                                    |                                    |                                    |  |  |
| 371   |  |   | Nova Siria/Hygrade Water                          | Multi/ joint 3000 Plus restraint type for AC, DI, SCL | DN350-DN1400   | Use of Synoflex and +GF+ 3000 plus is not accepted on PVC and GRP pipe materials  | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP   |  |
| 372   | DI flanged telescopic flexible fitting                                     | No WSA-PS<br>Aligned to WSA_PS 201 and 270 with Flanges to AS 4087 Figure B5<br>To comply with WSA PS-201S when published   | Hawle / Hygrade Water                             | Vario WSA PA 12/09                                    | DN50 - DN200   |   |                                    |                                    | Use by SP only                     |  |  |
| 373   | Small DN Ductile Iron Restraint Fittings at PE ODs                         |   | Saint-Gobain PAM                                  | IZIFIT  | DN75-DN160   | For use directly with PE and BLUTOP pipe.   | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP   |  |
| 374   | Pretapped connectors   | 201<br>4.1 - Soc-Soc only<br>4.2 - Standard and PN16 fittings<br>4.3 - Restraint Joint Seals by approval<br>4.4 - SBR & EPDM  | Clover Pipelines                                  | Clover  | DN100 to DN150   | Thermal bonded polymeric coating<br><br>DN100 to DN150 with 4 x 20BSP tappings at 2 per side and DN200 to DN300 1 x 50BSP tapping   | Use is subject to acceptance by SP | SP USE ONLY                        | Use is subject to acceptance by SP | Use is subject to acceptance by SP   |  |
| 375   |  |   | Viadux  | Readytap  | DN100 to 300   |   |                                    |                                    |                                    |  |  |
| 376   |  |   | Crevet / Iplex                                    | Pretapped   | DN100 & DN150  |   |                                    |                                    |                                    |  |  |
| 377   |  |   | Vinidex   | Superlink   | DN100 & DN150  |   |                                    |                                    |                                    |  |  |
| 378   |  |   | Himigiri Castings/Galvin Engineering / CivilPipes | Galvin  | DN100 & DN150  |   |                                    |                                    |                                    |  |  |
| 379   |  |   | Daemco  | Daemco  | Up to DN300  |   |                                    |                                    |                                    |  |  |
| 380   |  | 246<br>4.1 - Blue or Black for DW and Purple for NDW  | 4N Products & Stockbrands                         | Supertap  | DN100 & 150  | Only used on Series 2 PVC pipe.<br>Not suitable for DI pipe.<br>WSAA Appraisal 12/18  |                                    | SP USE ONLY                        | Use is subject to acceptance by SP |  |  |
| 381   | 316 SS repair clamps, flanged off-take clamps & BSP tapping clamps         | 313<br>4.1 - Type R or F by SP approval<br>4.2 - Pipe DN by SP approval<br>4.3 - Off-take DN by approval<br>4.4 - Min. PN16   | Crevet  | Wang  | DN100 to DN300   | Flanged off-take clamps approved are Type R for DI, AC and CI host pipes and Type F for PVC-m, PVC-u only, to pipe manufacturers specifications.<br><br>Host pipe to be of suitable condition.<br><br>Daemco repair clamps only accepted.   | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Type R accepted only   |  |
| 382   |  |   | Viadux  | Wang  | DN100 to DN300   |   |                                    |                                    |                                    |  |  |
| 383   |  |   | Cascade Control                                   | Rapid Clamps  | DN40 to DN350  |   |                                    |                                    |                                    |  |  |
| 384   |  |   | Daemco  | Norma Connect   | DN80 to DN300  |   |                                    |                                    |                                    |  |  |
| 385   |  |   | AVK   | AVK Series 748  | Up to DN300  |   |                                    |                                    |                                    |  |  |
| 386   | Repair Couplings   | 270<br>4.1 - PN16<br>4.2 - All pipe materials<br>4.3 - Short and Long Series<br>4.4 - Straight and Stepped<br>4.5 - All DN Range options<br>4.6 - Flange end not used<br>4.7 - EPDM, NBR, Neoprene<br>And SS316 bolts, nuts and washers   | Nova Siria/Hygrade Water                          | Duofit  | DN 300 - DN2000  |   | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP   |  |
| 387   | Flange DI off-take clamps  | 327<br>4.1 - Pipe DN63 and larger (see WSA PS 207 above) - Off-take ID 20 mm minimum<br>4.2 - PN16<br>4.3 - Female Rp thread to AS ISO 7.1<br>4.4 - Without electrical isolation  | Hawle/Hygrade Water                               | Haku  | DN110 to DN355   | For use on PE pipe only, installed and commissioned in accordance with manufacturers recommendations  | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP |  |  |

| A       | B  | C   | D  | E  | F   | G   | H  | I  | J  | K  |  |
|---------|--|---|--|--|---|---|--|--|--|--|--|
| Product | WSAA Product Specification No. with Service Provider Specific Requirements   | Manufacturer / Supplier   | Trade Name   | Size Range   | Specified Requirements / Minimum Class  | The City of Gold Coast  | Logan City Council   | Redland City Council   | QUU  | Unitywater   |  |
| 388     | 260<br>4.1 - PN16<br>4.2 - All End configurations accepted<br>4.3 - Integral By-pass on DN450 and larger (Unitywater accepts either integral or constructed by-pass as per job specification)<br>4.4 - Gear Box on DN600 and larger (refer mechanical list)<br>4.5 - Anti-clockwise for closing<br>4.6 - No requirement for spindle cap colour<br>4.7 - Extension Spindle to WSA PS - 262<br>4.8 - Spindle Cap<br>4.9 - SBR & EPDM | AVK   | Series 57 (light type only for DN100 & 150)<br>Series 570<br>Series 36/80<br>Series 01/71<br>Series 55 | Up to DN400  | Anchor legs approved  | DN500 and DN600 with DN100 By-pass  |  |  |  | Use of AVK SupaPlus restrained couplings is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations        |  |
| 389     |  | Hawle / Hygrade Water   | E2 FL Ends<br>E2 System 2000<br>A Valve FL & SOC Ends  | DN100 - 200<br>DN50 - 300<br>DN80 - 200  | WSAA Appraisal 11/23<br>WSAA Appraisal 06/07  | DN750 with DN150 By-pass  |  | Use is subject to acceptance by SP   |  | Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations.                       |  |
| 390     |  | Viadux  | Series 500<br>Auslite<br>Auslite II<br>Bayard<br>Sureflow Auslite III                                  | Up to DN600<br>DN80, 100 & 150<br>DN100 to DN300<br>DN50 - DN200<br>Up to DN 400<br>DN80 - DN600 | Anchor Legs approved  |   |  | Use of Auslite II is subject to acceptance by SP   |  |  |  |
| 391     |  | Karon / Challenger  | Karon (FL-FL light weight design)<br>Karon (FL-FL integral bypass valves)                              | DN80 - DN300   |   | Use of Karon / Challenger (FL-FL light weight design) is subject to acceptance by SP  | Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP   | Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP | Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP | Use of Karon / Challenger (FL-FL light weight design) and Karon / Challenger (FL-FL integral bypass valves) is subject to acceptance by SP |  |
| 392     |  | AVFI  |  | DN450 - DN600  |   |   |  |  | Use is subject to acceptance by SP   | <b>NOT ACCEPTED BY SP</b>  |  |
| 393     |  | Betta   | BETTA  | DN80 - DN600   |   |   | DN500 and DN600 with DN100 By-pass   |  |  | Gripper type accepted up to DN150  | Use of Betta Valves with griper/restraint joint is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations |
| 394     |  | AAP Industries  | Maxiflo/appFLO   | DN80 to DN300  | WSAA Appraisal 11/26 Issue 2  |   | DN750 with DN150 By-pass   |  | Use is subject to acceptance by SP   |  |  |
| 395     |  | Derwent Industries  | Derwent  | DN80 - DN600   | WSAA Appraisal 1511   |   |  |  |  |  |  |
| 396     |  | DAEMCO  |  | DN80 to DN300 for Soc-SP<br>DN80 to DN375 for FL   | WSAA Appraisal 1517 Issue 3   |   |  |  |  |  |  |
| 397     |  | DI fittings - tees and crosses with thermal bonded polymeric coating and built in resilient seated gate valves and vertical hydrant outlet  | Hawle / Hygrade Water  | Combi Valve  | DN100, DN150 & DN200  | Thermal bonded polymeric coating.<br>All DI fittings to be wrapped  | Use is subject to acceptance by SP   |  | Use is subject to acceptance by SP   | <b>Not Accepted by SP</b>  | Use is subject to acceptance by SP   |
| 398     | Butterfly Valves   | Pentair / Viadux  | Keystone   | DN50-600 for wafer/ lugged<br>DN100-1000 double flanged  | Body shall be ductile iron with fusion bonded polymeric coating external to 300 µm, internal to 350 µm (min.) or high-build two-pack epoxy to 500 µm (min.).<br>Disc shall be stainless steel Grade 316.<br>Shaft shall be stainless steel Grade 316, 410, 420, 430 or 431.<br>Seat shall be EPDM, NBR or SBR.<br>All fasteners shall be stainless steel Grade 316.<br>Operation Type: Lever or Gearbox.<br>Gearbox ratio as per manufacturer's requirement and coating – high build two-pack Epoxy 275 µm (min.) | DN100 to DN300 Property Service valves are wafer type for in-ground installations and are anti-clockwise closing operated.<br>DN100 to DN300 Property Service valves are lugged type for above ground installations and are anti-clockwise closing operated.<br>DN375 and larger valves are all double flanged type and are anti-clockwise closing gearbox operated<br>Challenger valves are accepted for DN100 to DN300 only | Use is subject to acceptance by SP<br>Direction of closing: Anti-clockwise   | Use is subject to acceptance by SP<br>Direction of closing: Anti-clockwise   | Use is subject to acceptance by SP   | Direction of closing: Clockwise<br>Wafer or Lugged valves not accepted without prior approval  |  |
| 399     |  | Ebro  | Ebro   |  |   |   |  |  |  |  |  |
| 400     |  | AVFI  | AVFI   |  |   |   |  |  |  |  |  |
| 401     |  | Valveco   | Valveco  |  |   |   |  |  |  |  |  |
| 402     |  | Iplex   | AVK  |  |   |   |  |  |  |  |  |
| 403     |  | Challenger  | Challenger   |  |   |   |  |  |  |  |  |
| 404     | Hydroflow Distributors   | Watts   |  |  | Use is subject to acceptance by SP  |   |  |  | Use is subject to acceptance by SP   |  |  |
| 405     | Hydrants   | AVK   | Series 30/00 non-swab and 30/10 for swab   |  | Removable Top Cap & Internal Assembly.<br>Thermal bonded polymeric coating.<br>Purple body and lug for recycled water.  | DN100 Flange to A.S.4087 Fig B5<br>Purple Body and Lug for A+ Recycled water<br>Swabbing type at main ends refer SEQ-WAT-1302-1   | DN100 Flange to A.S.4087 Fig B5  | Swabbing type at main ends refer SEQ-WAT-1302-1  | Swab type only accepted.<br>DN100 flanged to AS 4087 Fig B5.   | Swab type only accepted. All new hydrants are to be 100 mm with 100 mm flanges, 100 mm risers and spring heads                             |  |
| 406     |  | Viadux  | Sureflow   |  |   |   |  |  |  |  |  |
| 407     |  | Civil Pipe Supplies   | BETTA normal & Swab  |  |   |   |  |  |  |  |  |
| 408     |  | AAP Industries  | MAXIFLO/appFLO   |  |   |   |  |  |  |  |  |
| 409     |  | Derwent Industries  | Derwent standard and Swab  |  |   |   |  |  |  |  |  |
| 410     | Dobbie Dico  |   |  |  | Use is subject to acceptance by SP  |   |  | Swab type only accepted.<br>DN100 flanged to AS 4087 Fig B5.   |  |  |  |
| 411     | Ant Barrier devices for Hydrants   | No WSA-PS<br>Compliance with AS/NZA 4020  | Hydrant Protection   | Hydraguard   | To suit DN100 hydrant   | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   |  |  |
| 412     | Hydrant and Air Valve Isolating Valves   | No WSA-PS<br>Aligned to WSA_PS 201 and 270 with Flanges to AS 4087 Figure B5<br>To comply with WSA PS-201S when published   | AVK  | DN80 - DN100   | Thermal bonded polymeric coating<br>Min. PN16   |   | DN80 Flange to AS4087 Fig B5   | Swabbing type at main ends refer SEQ-WAT-1302-1  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Mandatory for Hydrants on Trunk Water mains >DN300<br>Isolator Valve for Hydrant - Min. DN100<br>Clockwise Opening Direction               |
| 413     |  | Viadux  |  |  |   |   |  |  |  |  |  |
| 414     |  | Crevet  |  |  |   |   |  |  |  |  |  |
| 415     | Valve box & cover C.I. or D.I.   | No WSA-PS<br>Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1306-1   | Viadux   |  | Bitumen coated to AS 3750.4   |   | Water Service ferrule Boxes for footpath are Viadux MFNSW-PTHBX or approved equivalent and for roadway are Viadux MVGQ or approved equivalent as per Item 41 of 11-133 and as shown on 11-134 of CoGC metering standard drawings.<br>Lids colour e.g. white are preferred to be painted in factory |  | Use is subject to acceptance by SP   | Only Class D accepted  |  |
| 416     |  |   | NIBF / Iplex   |  |   |   |  |  |  |  |  |
| 417     |  |   | Tellam   |  |   |   |  |  |  |  |  |
| 418     |  |   | Gatic / Iplex  |  |   |   |  |  |  |  |  |
| 419     | Hygrade Water  | Hygrade Water   |  |  |   |   |  |  |  |  |  |
| 420     | Hydrant box & cover C.I. or D.I.   | No WSA-PS<br>Refer details on SEQ-WAT-1305-1 and SEQ-WAT-1306-1   | Viadux   |  | Bitumen coated to AS 3750.4   |   | Lids colour yellow are preferred to be painted in factory  |  | Use is subject to acceptance by SP   | Only Class D accepted  |  |
| 421     |  |   | NIBF / Iplex   |  |   |   |  |  |  |  |  |
| 422     |  |   | Tellam   |  |   |   |  |  |  |  |  |
| 423     |  |   | Gatic/Iplex  |  |   |   |  |  |  |  |  |
| 424     | Hygrade Water  | Hygrade Water   |  |  |   |   |  |  |  |  |  |
| 425     | Valve & hydrant boxes (recycled plastics) & DI Covers  | No WSA-PS<br>Refer details on SEQ-WAT-1305-1  | Viadux   |  | Non-trafficable location only.<br>H - Hydrants<br>V - Valves<br>AV - Air valve  | Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2309-1   | Coloured to SEQ-WAT-1300-1   | Coloured to SEQ-WAT-1300-1   | Coloured to SEQ-WAT-1300-1, SEQ-NDW-2122-1 and SEQ-NDW-2125-2  | Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2209-1  |  |
| 426     |  |   | Crevet   |  |   |   |  |  |  |  |  |
| 427     |  |   | Vinidex  |  |   |   |  |  |  |  |  |
| 428     |  |   | Civilpipes   |  |   |   |  |  |  |  | Daemco   |
| 429     | Plastic surround to valve/hydrant boxes  | No WSA-PS<br>For sizes refer details on SEQ-WAT-1306-1  | Replas Australia   |  | Non-trafficable location only.  | Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2309-1   | Coloured to SEQ-WAT-1300-1   | Coloured to SEQ-WAT-1300-1   | Coloured to SEQ-WAT-1300-1, SEQ-NDW-2122-1 and SEQ-NDW-2125-2  | Coloured to SEQ-WAT-1300-1 and SEQ-NDW-2209-1  |  |
| 430     | Valve extension spindles   | 262<br>4.1 - DN100 to DN525/600<br>4.2 - Length by Design<br>4.3 - Valve extension spindles shall be coated with a polymeric coating to AS 4158 with 350 µm DFT (minimum), or Valve extension spindles shall be hot-dip galvanized in accordance with AS 4680.<br>Spindle support with bearing at 1 per installation minimum and at 1.8 m max spacings for pit installation | Viadux   |  | AS2638 Compliant  |   |  |  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   |  |
| 431     |  |   | NIBF / Iplex   |  |   |   |  |  |  |  |  |
| 432     |  |   | Forge Bros / Vinidex   |  |   |   |  |  |  |  |  |
| 433     |  |   | Challenger   |  |   |   |  |  |  |  |  |
| 434     | Daemco   |   |  |  |   |   |  |  |  |  |  |

| A       | B   | C  | D  | E   | F  | G   | H  | I                                  | J   | K  |  |
|---------|---|--|--|---|--|---|--|------------------------------------|---|--|--|
| Product | WSAA Product Specification No. with Service Provider Specific Requirements                                  | Manufacturer / Supplier                        | Trade Name   | Size Range  | Specified Requirements / Minimum Class   | The City of Gold Coast  | Logan City Council   | Redland City Council               | QUU   | Unitywater   |  |
| 435     | Flanges MS  | Steel Mains                                    |  |   | Class 16.  |   |  |                                    |   |  |  |
| 436     |   | NIBF / Iplex                                   |  |   | Thermal bonded polymeric coating   |   |  |                                    |   |  |  |
| 437     | Flange gaskets and 'O' rings  | All WSA PS-312 compliant products are accepted |  |   |  |   |  |                                    |   |  |  |
| 438     | Bolts   | No WSA-PS<br>Refer details on SEQ-WAT-1313-1   |  |   | 316 Stainless steel bolts  |   |  |                                    |   |  |  |
| 439     | PE mechanical compression fittings for reduced size water mains   | George Fischer                                 |  | DN63  | Metal male fittings connecting to plastic female fittings is not accepted  | Only fittings with a Copper Alloy body and a Copper Alloy compression nut are approved for use  | Use is subject to acceptance by SP                                 | Use is subject to acceptance by SP | Use is subject to acceptance by SP                          |  |  |
| 440     |   | Philmac / Philmac & Vinidex                    |  |   |  |   |  |                                    |   |  |  |
| 441     |   | Plasson  |  |   |  |   |  |                                    |   |  |  |
| 442     |   | Talbot   |  |   |  |   |  |                                    |   |  |  |
| 443     |   | Alprene  |  |   |  |   |  |                                    |   |  |  |
| 444     |   | Iplex  |  |   |  |   |  |                                    |   |  |  |
| 445     |   | Viadux   |  |   |  |   |  |                                    |   |  |  |
| 446     | Hydroflow / SAB S.p.A   | SAB Black Nut Blue Seal                        |  |   |  |   |  |                                    |   |  |  |
| 447     | PE Fittings - Moulded (for mains and large service pipes)   | Plasson  |  | Coupler up to DN710   | Electrofusion fittings to be long type.  | Accepted where PE pipes are approved to be used   | Accepted where PE pipes are approved to be used for DN63 and DN110 | Accepted for DN63 and DN110        | Flanged tees and flanged saddles are not accepted by SP     | Flanged tees and flanged saddles are not accepted by SP  |  |
| 448     |   | Georg Fischer                                  | ELGEF Plus Draw - Lock                             |   |  |   |  |                                    |   |  |  |
| 449     |   | Friatec / Vinidex                              | Frialen  | Up to DN630   |  |   |  |                                    |   |  |  |
| 450     |   | Agru   | Agru   | Coupler up to DN630   |  |   |  |                                    |   |  |  |
| 451     |   | Fusion Group / FusionPlast                     | Fusamatic  | Up to DN630   |  |   |  |                                    |   |  |  |
| 452     |   | NUPIGECO                                       | Elofit   | DN20 to DN710   |  |   |  |                                    |   |  |  |
| 453     |   | Hydroflow / Plastitalia S.p.A                  | PLAST  | Up to DN630   |  |   |  |                                    |   |  |  |
| 454     |   | Mako   | Mako   | Up to DN630   |  |   |  |                                    |   |  |  |
| 455     | Simona / Plasson  | Simona   | Up to DN500  |   |  |   |  |                                    |   |  |  |
| 456     | PE fittings - Moulded - High Stress Crack Resistant (HSCR) Polyethylene (for mains and large service pipes) | Agru   | Agruline   | Up to DN630   | Comply with AS4129, PN16, Electrofusion fittings to be long type. Stub flanges only to be used sizes Dn450 and larger. | Accepted where PE pipes are approved to be used<br>Sizes of DN630 and above which are machined fittings are subject to acceptance by SP | Use is subject to acceptance by SP                                 | Use is subject to acceptance by SP | Accepted up to DN355  |  |  |
| 457     | PE fittings - Fabricated  | Adroit   | Adroit   |   | Butt Welded Fittings   | Accepted where PE pipes are approved to be used   | Use is subject to acceptance by SP                                 | Use is subject to acceptance by SP | Use is subject to acceptance by SP                          |  |  |
| 458     | Full face PE flanges (for reticulation sizes)   | Simona / Plasson                               | Simona   |   |  | Accepted where PE pipes are approved to be used   | Use is subject to acceptance by SP                                 | Use is subject to acceptance by SP | NOT ACCEPTED BY SP  | Use is subject to acceptance by SP   |  |
| 459     |   | Plasson  |  | DN80 / DN100  | DN90 riser with slotted flanges suit both DN80 & DN100 flanged hydrants to WSAA 98/50                                  |   |  |                                    |   |  | Use of stub flanges is subject to acceptance by SP |
| 460     |   | Iplex  |  | Up to DN355   | Full face full bore connections  |   |  |                                    |   |  |  |
| 461     |   | Friatec / Vinidex                              | Frialen  | Up to DN180   | Metal insert in the flange, backing rings not required   |   |  |                                    |   |  | Use is subject to acceptance by SP                 |
| 462     |   | Rodney / Vinidex                               | Maxi Stub  | Up to DN355   | Full face full bore connections  | Accepted where PE pipes are approved to be used   | Use is subject to acceptance by SP                                 | Use is subject to acceptance by SP | Use of stub flanges is subject to acceptance by SP          |  |  |
| 463     | DI Restraint fittings (for PE) - couplings, flange adaptors, tees, bends, end caps                          | Hawle / Hygrade Water                          | System 2000 Synoflex                               | Up to DN630   | Restraint type, Flange adaptor up to DN355 shall be full bore connection   |   |  |                                    | Only accepted for use where welded joints are not practical | Use of Hawle System 2000 is subject to acceptance in Acid Sulphate Soils and Saline coastal environmental locations. |  |
| 464     |   | +GF+   | Multi/Joint 3000                                   | Up to DN355   |  |   |  |                                    |   |  |  |
| 465     |   | AVK  | Supa Plus  | Up to DN315   |  |   |  |                                    |   |  |  |
| 466     |   | Viking Johnson / Philmac                       | AquaFast AquaGrip                                  | Up to DN630   |  |   |  |                                    |   |  |  |
| 467     |   | Daemco   | Xcel Restrained Coupling and Flange Adaptor for PE | DN63 to DN315 for Coupling and DN63 to DN315 for Flange Adaptor |  |   |  |                                    |   |  | Use is subject to acceptance by SP                 |

| A       | B  | C   | D   | E  | F  | G  | H   | I  | J  | K   |  |
|---------|--|---|---|--|--|--|---|--|--|---|--|
| Product | WSAA Product Specification No. with Service Provider Specific Requirements | Manufacturer / Supplier   | Trade Name  | Size Range   | Specified Requirements / Minimum Class   | The City of Gold Coast   | Logan City Council  | Redland City Council   | QUU  | Unitywater  |  |
| 468     | PE scour Tees  | 216<br>4.1 - PN16 minimum<br>4.2 - Electrofusion/Butt Weld pipe joint with Full Face Flange Adaptor with SS316 backing ring and AS 4087 "Figure" compatibility for mating flange on outlet  | Vinidex / Rodney<br>Kingston Bridge / Iplex   |  | Comply with AS4129   | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP  | NOT ACCEPTED BY SP   |  |   |  |
| 470     | Air valves   | 265<br>Appendix B AS 4956<br>Size - DN20 and Larger<br>Class - PN16<br>Type of Port - Full and Reduced Port<br>Type of Valve - As per Design<br>Hydraulic Data - As per Design<br>Materials - DN20 and DN25 permitted with Plastic body. All other sizes<br>End Connections - BSP Threaded or AS 4087 Flange with "Figure" compatibility to mating Flange | ARI Flow control<br>Bermad<br>Vent-O-Mat<br>AVFI<br>ISCO  |  | Double Orifice as required,<br>Thermal bonded polymeric coating  | DN40 and DN50 BSP threaded to have Brass base  | DN40 and DN50 BSP threaded to have Brass base.  | DN40 and DN50 BSP threaded to have Brass base.   | Use is subject to acceptance by SP   |   |  |
| 471     |  |   |   |  |  |  |   |  |  |   |  |
| 472     |  |   |   |  |  |  |   |  |  |   |  |
| 473     |  |   |   |  |  |  |   |  |  |   |  |
| 474     |  |   |   |  |  |  | NOT ACCEPTED BY SP  | Use is subject to acceptance by SP   |  | NOT ACCEPTED BY SP  |  |
| 475     | Non-return valves -<br>Swing check with counterweight lever arm            | 264<br>Refer Appendix B of AS4794<br>a) Class - PN16 min - Size by Design<br>b) Medium - Water<br>c) Installation - Horizontal<br>d) Spindle - Extended<br>e) Lever and Counterweight minimum with switches and indicators by Design<br>j) Flanged to AS 4087 Figure B5   | HMA Valveco<br>Dobbie Dico<br>AVK<br>AVK<br>Challenger Valves<br>AVFI Pty Ltd   | Valmatic Swing-flex<br>Dobbie Dico<br>AVK Swing Check Valve 41/25<br>AVK Swing Check Valve 41/8X<br>Challenger - RSSC<br>AVFI - RSFC | DN50 - DN600<br>DN80-DN900<br>DN50<br>DN80-DN300<br>DN80-DN375<br>DN50-DN300   | Thermal bonded polymeric coating   | NOT ACCEPTED BY SP<br>Accepted to be used for large meter assemblies where a non-return valve is required as per council's meter standard drawings.   | Only use valves with capacity for lever arm to open and close the valve<br>AVK and Dobbie Dico are acceptable<br>CHALLENGER and other valves without lever arm NOT ACCEPTED BY SP          | Use is subject to acceptance by SP   | NOT ACCEPTED BY SP  |  |
| 476     |  |   |   |  |  |  |   |  |  |   |  |
| 477     |  |   |   |  |  |  |   |  |  |   |  |
| 478     |  |   |   |  |  |  |   |  |  |   |  |
| 479     |  |   |   |  |  |  |   |  |  |   |  |
| 480     |  |   |   |  |  |  |   |  |  |   |  |
| 481     | Non-return valves -<br>free acting (without counterweight) Swing Check     | 264<br>Refer Appendix B of AS4794<br>a) Class - PN16 min - Size by Design<br>b) Medium - Water<br>c) Installation - Horizontal<br>d) Spindle - Extended<br>j) Flanged to AS 4087 Figure B5  | HMA Valveco<br>Dobbie Dico<br>AVK<br>AVK<br>Challenger Valves<br>AVFI Pty Ltd   | Valmatic Swing-flex<br>Dobbie Dico<br>AVK Swing Check Valve 41/25<br>AVK Swing Check Valve 41/8X<br>Challenger - RSSC<br>AVFI - RSFC | DN50 - DN600<br>DN80-DN900<br>DN50<br>DN80-DN300<br>DN80-DN375<br>DN50-DN300   | Thermal bonded polymeric coating   | Min. PN16.<br>NOT ACCEPTED BY SP  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP  |  |
| 482     |  |   |   |  |  |  |   |  |  |   |  |
| 483     |  |   |   |  |  |  |   |  |  |   |  |
| 484     |  |   |   |  |  |  |   |  |  |   |  |
| 485     |  |   |   |  |  |  |   |  |  |   |  |
| 486     |  |   |   |  |  |  |   |  |  |   |  |
| 487     | Pressure reducing valves   | 268<br>See Appendix B of AS5081:2008  | Bermad Water Technologies<br>Singer / HMA Valveco<br>Plasson Australia Pty Ltd<br>Dorot Australia Pty Ltd<br>Cla-Val Pacific / Challenger | Bermad<br>Singer<br>Plasson C-Valve<br>Dorot 300 Series<br>Cla-Val   | DN40 - DN900<br>DN40 - DN900<br>DN25-DN1200  | Thermal bonded polymeric coating   | Min PN16.<br>Dorot 300 Series for Pressure Reducing Valve and for associated Pressure Relief Valve (Dump Valve) Dorot 200 Series or Bermad IR-43Q Valve   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP<br>(In PRV installations where upstream pressures can be within 50 kPa of the required downstream pressure, Plasson C valves are preferred). |  |
| 488     |  |   |   |  |  |  |   |  |  |   |  |
| 489     |  |   |   |  |  |  |   |  |  |   |  |
| 490     |  |   |   |  |  |  |   |  |  |   |  |
| 491     |  |   |   |  |  |  |   |  |  |   |  |
| 492     | Pressure sustaining valves and altitude valves                             | 268<br>See Appendix B of AS5081:2008  | Bermad Water Technologies<br>Singer / HMA Valveco<br>Dorot Australia Pty Ltd<br>Cla-Val Pacific / Challenger                              | Bermad<br>Singer<br>Dorot 300 Series<br>Cla-Val  | DN 40 - DN900<br>DN25-DN1200 (Sustaining)<br>DN-80-DN1200 (Altitude)   | Thermal bonded polymeric coating   | Use is subject to acceptance by SP  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP  |  |
| 493     |  |   |   |  |  |  |   |  |  |   |  |
| 494     |  |   |   |  |  |  |   |  |  |   |  |
| 495     |  |   |   |  |  |  |   |  |  |   |  |
| 496     | PE Flex Restraint Fitting (used as puddle flange)                          |   | +GF+<br>Plasson   | Up to DN1600<br>Fits DN160 to DN1600 PE Pipe   | E-F type follow manufacturer's requirements.<br>PE100/ PE4710 resin  | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP  | NOT ACCEPTED BY SP   | Use is subject to acceptance by SP   |   |  |
| 497     |  |   |   |  |  |  |   |  |  |   |  |
| 498     | Dismantling joints for Flange Pipe and Fittings                            | 201<br>4.1 - FI-FI for DJ & FI/Sp for UniFlange<br>4.2 - Thrust type and non-thrust type minimum PN16<br>4.3 - Thrust Restraint by Fitting<br>4.4 - SBR & EPDM  | Viadux<br>Viking Johnson<br>Valveco<br>Hygrade Water<br>AVFI<br>AVFI  |  | Thrust restraint type and non-thrust type are Flanged to AS4087 PN16.<br>SS316 bolts, nuts and washers.<br>Larger sizes of UniFlange shall be assessed for available Fitting PN vs Pipeline Test Head. | For Mains only, restrained type only<br>For Meter Assemblies only, restrained type only<br>Use is limited - refer to SP for advice<br>For Meter Assemblies only, restrained type only<br>For Mains only, restrained type only<br>For Meter Assemblies only, restrained type only | Use is subject to acceptance by SP<br>Use is subject to acceptance by SP<br>Use is subject to acceptance by SP<br>For Mains only, restrained type only<br>For Meter Assemblies only, restrained type only | Use is subject to acceptance by SP<br>Use is subject to acceptance by SP<br>Use is subject to acceptance by SP<br>Use is subject to acceptance by SP<br>Use is subject to acceptance by SP | Use is subject to acceptance by SP<br>Use is subject to acceptance by SP<br>Use is subject to acceptance by SP<br>Use is subject to acceptance by SP<br>Use is subject to acceptance by SP | Uni-flange to be used within pit or aboveground locations only  |  |
| 499     |  |   |   |  |  |  |   |  |  |   |  |
| 500     |  |   |   |  |  |  |   |  |  |   |  |
| 501     |  |   |   |  |  |  |   |  |  |   |  |
| 502     |  |   |   |  |  |  |   |  |  |   |  |
| 503     |  |   |   |  |  |  |   |  |  |   |  |
| 504     | Flowmeter - Network Meter  | No WSAA PS<br>4.1 - Flange to AS4087 Figure 5<br>4.2 - PN16   | ABB<br>Siemens<br>E & H<br>Emerson  | ABB<br>Siemens<br>E & H<br>Emerson   |  |  | Use is subject to acceptance by SP<br>Use is subject to acceptance by SP<br>E & H 53W<br>Use is subject to acceptance by SP   | Use is subject to acceptance by SP<br>Use is subject to acceptance by SP<br>Use is subject to acceptance by SP<br>Use is subject to acceptance by SP                                       | NOT ACCEPTED BY SP<br>NOT ACCEPTED BY SP<br>E & H Promag W400<br>NOT ACCEPTED BY SP  | ABB Water master<br>Use is subject to acceptance by SP<br>Use is subject to acceptance by SP<br>Use is subject to acceptance by SP  |  |
| 505     |  |   |   |  |  |  |   |  |  |   |  |
| 506     |  |   |   |  |  |  |   |  |  |   |  |
| 507     |  |   |   |  |  |  |   |  |  |   |  |



| A                               | B  | C  | D           | E                   | F   | G  | H                                  | I   | J   | K   |
|---------------------------------|--|--|-------------|---------------------|---|--|------------------------------------|---|---|---|
| Product                         | WSAA Product Specification No. with Service Provider Specific Requirements | Manufacturer / Supplier  | Trade Name  | Size Range          | Specified Requirements / Minimum Class  | The City of Gold Coast   | Logan City Council                 | Redland City Council                                | QUU                                       | Unitywater  |
| <b>Category: WATER SERVICES</b> |  |  |             |                     |   |  |                                    |   |   |   |
| 508                             |  | Viadux   |             |                     |   |  |                                    |   |   |   |
| 509                             |  | Gatic / Milne  |             |                     | Gunmetal - Positive stops   |  |                                    |   |   |   |
| 510                             | Tapping bands for DI & PVC pipes   | RMC  |             |                     |   |  |                                    | SP USE ONLY   | RMC tapping band also accepted on AC pipe | SP USE ONLY   |
| 511                             |  |  |             |                     |   |  |                                    |   |   |   |
| 512                             |  | 4N Products & Stockbrands  | 4N          | DN100, 150, 200     | Positive stops, coloured blue<br>WSAA Appraisal PA10/18   | NOT ACCEPTED BY SP   |                                    |   |   |   |
| 513                             | Tapping bands for PE - mechanical  | Gatic / Milne  |             | DN63-DN315          | Gunmetal - Positive stops<br>Only for where E-F saddles are not practicable                                 | NOT ACCEPTED BY SP   |                                    |   |   | NOT ACCEPTED BY SP  |
| 514                             |  | 4N Products & Stockbrands  | 4N          | DN63, 90, 125 & 180 | Positive stops, coloured black<br>Only for where E-F saddles are not practicable<br>WSAA Appraisal PA10/19  |  |                                    | SP USE ONLY   |   |   |
| 515                             |  | Hawle / Hygrade Water  | Haku        | DN63 - DN315        | Ductile iron lower half   |  |                                    | Use is subject to acceptance by SP                  |   |   |
| 516                             |  | Hawle / Hygrade Water  | Haku        | DN250 - DN630       | Stainless steel strap lower half  |  |                                    |   | NOT ACCEPTED BY SP                        |   |
| 517                             | Tapping saddle for PE - electrofusion                                      | Plasson  |             |                     |   |  |                                    |   |   |   |
| 518                             |  | George Fischer   |             | DN63, 90, 125 & 180 |   | Accepted for DN63 and DN110  |                                    |   |   |   |
| 519                             |  | Friatec / Vinidex  | Frialen     |                     |   | Comply with AS4129<br>PN16   |                                    | SP USE ONLY   | Accepted for DN63 and DN110               |   |
| 520                             |  | Fusion Group / FusionPlast   | Fusamatic   | Up to DN355         |   |  | Use is subject to acceptance by SP |   |   | Flanged saddles are not accepted by SP  |
| 521                             |  | Hydroflow  | Plastitalia | Up to DN315         |   | Accepted for DN63 and DN110  | Use is subject to acceptance by SP | Use is subject to acceptance by SP                  | Use is subject to acceptance by SP        | Use is subject to acceptance by SP  |
| 522                             | Tapping saddle for PE - Electrofusion - High Stress Crack Resistant (HSCR) | 329<br>329.2.(a) - EN Standards accepted<br>4.1 - Pipe DN63 and larger ( see WSA PS 207 above ) - Off-take ID 20 mm minimum<br>4.2 - PN16<br>4.3 - Combined Saddle and Outlet off-take with integral cutter/shut off<br>4.4 - Without electrical Isolation | Agru        | Agruline            | Up to DN250   | Comply with AS4129<br>PN16   | Accepted for DN63 and DN110        | Use is subject to acceptance by SP                  | Use is subject to acceptance by SP        | Use is subject to acceptance by SP  |
| 523                             | Ferrules - TPFNR Bonnet Ferrule Cocks                                      | Gatic / Milne  |             |                     |   |  |                                    |   |   |   |
| 524                             |  | Elster   |             |                     | Dezincification resistant material and comply with AS/NZS 3688  |  |                                    | SP USE ONLY   |   |   |
| 525                             |  | RMC  |             |                     |   |  |                                    |   |   |   |
| 526                             | Ball valves - Water Service  | Gatic / Milne  |             |                     |   |  |                                    |   |   |   |
| 527                             |  | Elster   |             |                     |   |  | Accepted for DN20 & DN25           | Accepted for DN20 and DN25 at meter end of services |   |   |
| 528                             |  | RMC  |             |                     |   | Dezincification resistant material and comply with AS/NZS 3688               |                                    |   | Accepted for DN20 & DN25                  | Ball valves must be capable of being locked by the customer with their own padlock. |
| 529                             |  | Zetco TOF  |             |                     |   |  |                                    | Use is subject to acceptance by SP                  |   |   |
| 530                             |  | Cimberio / Strongcast  | Strongcast  |                     |   |  |                                    | Accepted for DN20 and DN25 at meter end of services |   |   |
| 531                             |  | Austworld  | LOGI VALVE  |                     |   |  |                                    |   | Use is subject to acceptance by SP        | Use is subject to acceptance by SP  |
| 532                             |  | Galvin Engineering   |             |                     |   |  | Use is subject to acceptance by SP |   |   | NOT ACCEPTED BY SP  |
| 533                             | Union stopcock   | Gatic / Milne  |             |                     |   |  |                                    |   |   |   |
| 534                             |  | Elster   |             |                     | 25 mm<br>Dezincification resistant material and comply with AS/NZS 3688                                     | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP                 | NOT ACCEPTED BY SP                                  |   |   |
| 535                             |  | RMC  |             |                     |   |  |                                    |   |   |   |
| 536                             | Slip Coupling  | Elster   |             | DN20 and DN25       |   | DN25 only is accepted  |                                    |   |   |   |
| 537                             |  | All Valve Industries   |             |                     | Dezincification resistant material and comply with AS/NZS 3688.   | NOT ACCEPTED BY SP   | Use is subject to acceptance by SP | Use is subject to acceptance by SP                  | NOT ACCEPTED BY SP                        | NOT ACCEPTED BY SP  |
| 538                             |  | RMC  |             | DN20                | Shall have a locking nut and a metallic stopper to prevent moving apart or kinking between the moving parts |  |                                    |   |   |   |
| 539                             |  | Strongcast   |             |                     |   |  |                                    |   |   |   |
| 540                             |  | Austworld  |             |                     |   | Both configurations of individual and combined with ball valves are accepted |                                    |   |   |   |
| 541                             | Transition couplers  | Plasson  |             |                     | PE electro-fusion to BSP connections  |  |                                    |   |   |   |
| 542                             |  | +GF+   |             |                     | Metal male fittings connecting to plastic female fittings is not accepted                                   |  |                                    |   |   | Push fitting not accepted by SP   |
| 543                             |  | Friatec / Vinidex  |             |                     |   |  | Use is subject to acceptance by SP | Use is subject to acceptance by SP                  | Use is subject to acceptance by SP        |   |

|     | A   | B   | C                           | D                      | E            | F  | G   | H                  | I                    | J  | K                                  |             |                       |
|-----|---|---|-----------------------------|------------------------|--------------|--|---|--------------------|----------------------|--|------------------------------------|-------------|-----------------------|
|     | Product   | WSAA Product Specification No. with Service Provider Specific Requirements  | Manufacturer / Supplier     | Trade Name             | Size Range   | Specified Requirements / Minimum Class   | The City of Gold Coast  | Logan City Council | Redland City Council | QUU  | Unitywater                         |             |                       |
| 544 | PE mechanical compression fittings for Small Diameter Water Service pipes | 208 or 247<br>DN25 to DN63<br>2.(a) - AS/NZS4129, EN1254 or equivalent acceptable Certification<br>4.1 - PN16 minimum<br>4.2 - Mechanical Polyethylene, Polypropylene or Copper Alloy both with approved Plastic grippers/olives/thimbles<br>4.3.1 - Transition - PE to Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1<br>4.3.2 - Coupling - PE to PE<br>4.4 - Flange not used<br>4.5 - SBR & EPDM | George Fischer              |                        | DN25 to DN63 | PE to PE or PE to BSP.<br><br>Push fit type is not accepted.<br><br>Metal male fittings connecting to plastic female fittings is not accepted. | Only fittings with a Copper Alloy body and a Copper Alloy compression nut are approved for use                            |                    |                      | Use is subject to acceptance by SP   |                                    |             |                       |
| 545 |   |   | Philmac / Philmac & Vinidex |                        |              |  |   |                    |                      |  |                                    |             |                       |
| 546 |   |   | Plasson                     |                        |              |  |   |                    |                      |  |                                    |             |                       |
| 547 |   |   | Elster                      |                        |              |  |   |                    |                      |  |                                    |             |                       |
| 548 |   |   | Zetco TOF                   |                        |              |  |   |                    |                      |  |                                    |             |                       |
| 549 |   |   | Talbot                      |                        |              |  |   |                    |                      |  |                                    |             |                       |
| 550 |   |   | Alprene                     |                        |              |  |   |                    |                      |  |                                    |             |                       |
| 551 |   |   | Iplex                       |                        |              |  |   |                    |                      |  |                                    |             |                       |
| 552 |   |   | Viadux                      |                        |              |  |   |                    |                      |  |                                    |             |                       |
| 553 |   |   | NUPIGECO                    | Elopress               |              |  |   |                    |                      |  |                                    |             |                       |
| 554 | Austworld   | LOGI CIVIL  | DN25 & DN 32                |                        |              |  |   |                    |                      |  |                                    |             |                       |
| 555 | Hydroflow / SAB S.p.A   | SAB Black Nut Blueseal  | DN25 to DN63                |                        |              |  |   |                    |                      |  |                                    |             |                       |
| 556 | Meters - 20 mm (direct and sub-metering applications)                     | No WSA-PS<br>1 - NSC/NMI Pattern Approved<br>2 - AS 3565.1 Certified<br>3 - Integral Strainer<br>4 - Std Tail Nut with gasket<br>5 - Colour and Check Valve requirements as per SEQ-SP requirements   | Elster                      | V100 (PSM-T) (WM202PD) |              | Purple body for non-drinking water Accuracy Class 2<br><br>Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy |   |                    |                      | Only accepted for above ground installation  |                                    |             |                       |
| 557 |   |   | Elster                      | V200                   |              |  |   |                    |                      |  |                                    |             |                       |
| 558 |   |   | Itron                       | TD8                    |              |  |   |                    |                      |  |                                    |             |                       |
| 559 |   |   | RMC                         | WM273MRP multijet      |              |  |   |                    |                      |  |                                    |             |                       |
| 560 |   |   | RMC                         | WM281MRP multijet      |              |  |   |                    |                      |  |                                    |             |                       |
| 561 |   |   | GVT                         | TPWM                   |              |  |   |                    |                      |  |                                    |             |                       |
| 562 | Meters - 25 mm (direct and sub-metering applications)                     | No WSA-PS<br>1 - NSC/NMI Pattern Approved<br>2 - AS 3565.1 Certified<br>3 - Integral Strainer<br>4 - Std Tail Nut with gasket<br>5 - Colour and Check Valve requirements as per SEQ-SP requirements   | Elster                      | V100 (PSM-T) (WM252PD) |              | Purple body for non-drinking water Accuracy Class 2<br><br>Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy |   |                    |                      | Only accepted for above ground installation  |                                    |             |                       |
| 563 |   |   | Elster                      | V200                   |              |  |   |                    |                      |  |                                    |             |                       |
| 564 |   |   | Itron                       | TD8                    |              |  |   |                    |                      |  |                                    |             |                       |
| 565 |   |   | RMC                         | WM271MRP multijet      |              |  |   |                    |                      |  |                                    |             |                       |
| 566 | Meters - 32 mm (direct and sub-metering applications)                     | No WSA-PS<br>1 - NSC/NMI Pattern Approved<br>2 - AS 3565.1 Certified<br>3 - Integral Strainer<br>4 - Std Thread for attachment of a AS3565.1 Clause 2.6 (DR) Copper Alloy Oval Flange with two Bolts<br>5 - Colour and Check Valve requirements as per SEQ-SP requirements  | Elster                      | V100 (PSM-T)           |              | Purple body for non-drinking water Accuracy Class 2<br><br>Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy |   |                    |                      |  |                                    |             |                       |
| 567 |   |   | Elster                      | V200                   |              |  |   |                    |                      |  |                                    |             |                       |
| 568 |   |   | Itron                       | TD8                    |              |  |   |                    |                      |  |                                    |             |                       |
| 569 |   |   | RMC                         | MRP                    |              |  |   |                    |                      |  |                                    |             |                       |
| 570 | Meters - 40 mm (direct and sub-metering applications)                     | No WSA-PS<br>1 - NSC/NMI Pattern Approved<br>2 - AS 3565.1 Certified<br>3 - Integral Strainer<br>4 - Std Thread for attachment of a AS3565.1 Clause 2.6 (DR) Copper Alloy Oval Flange with two Bolts<br>5 - Colour and Check Valve requirements as per SEQ-SP requirements  | Elster                      | V100 (PSM-T)           |              | Purple body for non-drinking water Accuracy Class 2<br><br>Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy |   |                    |                      | Only accepted for above ground installation  |                                    |             |                       |
| 571 |   |   | Itron                       | Flostar M              |              |  |   |                    |                      |  |                                    |             |                       |
| 572 |   |   | RMC                         | WM400 / V100 (PSM-T)   |              |  |   |                    |                      |  |                                    |             |                       |
| 573 | Meters - 50 mm and larger (direct and sub-metering applications)          | No WSA-PS<br>1 - AS 3565.1 Certified<br>2 - Std integral Round Flange as per AS3565.1 Clause 2.5 to AS4087 Figure B5 with four Bolts<br>3 - Colour and Check Valve requirements as per SEQ-SP requirements  | Elster                      | H4000 Woltmann         |              | Purple body for non-drinking water Accuracy Class 2<br><br>Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy |   |                    |                      | Only accepted for above ground installation  |                                    |             |                       |
| 574 |   |   | Elster                      | H5000                  |              |  |   |                    |                      |  |                                    |             |                       |
| 575 |   |   | Arad / RMC                  | Woltman Silver Turbo   |              |  |   |                    |                      |  |                                    |             |                       |
| 576 |   |   | Itron                       | Flostar M              |              |  |   |                    |                      |  |                                    |             |                       |
| 577 |   |   | Itron                       | Woltex                 |              |  |   |                    |                      |  |                                    |             |                       |
| 578 |   |   | Sensus                      | Meistream              |              |  |   |                    |                      |  |                                    |             |                       |
| 579 | Inline Strainer   | No WSA-PS   | Elster                      | Kent H4010 Strainer    | Up to DN150  | PN16   |   |                    |                      | Only Flat-top accepted   |                                    |             |                       |
| 580 |   |   | RMC                         |                        |              |  |   |                    |                      |  |                                    | Up to DN150 | FI-FI                 |
| 581 |   |   | Hydromet                    |                        |              |  |   |                    |                      |  |                                    | Up to DN200 | Top entry basket Type |
| 582 |   |   | Virginia Metals             |                        |              |  |   |                    |                      |  |                                    | Up to DN200 |                       |
| 583 | Flowmeters  | No WSA-PS<br>1- Flange to AS4087 Figure 5<br>2- PN16  | Arad Ultrasonica / RMC      | Octave                 |              | Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy  | Arad Octave Ultrasonic and Siemens Sitrans FM Mag 8000 acceptable   |                    |                      | Use is subject to acceptance by SP   | Use is subject to acceptance by SP |             |                       |
| 584 |   |   | Siemens Eletromagnetic      | Siemens                |              |  |   |                    |                      |  |                                    |             |                       |
| 585 |   |   | Siemens Ultrasonic          | Siemens                |              |  |   |                    |                      |  |                                    |             |                       |
| 586 |   |   | E & H Electromagnetic       | E & H                  |              |  |   |                    |                      |  |                                    |             |                       |
| 587 |   |   | E & H Ultrasonic            | E & H                  |              |  |   |                    |                      |  |                                    |             |                       |
| 588 |   |   | Emerson                     | Emerson                |              |  |   |                    |                      |  |                                    |             |                       |
| 589 | ABB   | ABB   |                             |                        |              |  |   |                    |                      |  |                                    |             |                       |
| 590 | Automatic Meter Reading (AMR) Systems (sub-metering applications)         | Meter reading dials shall have between 0 kL and 10 kL of consumption showing at the time of meter supply  | Enware                      | Enware                 |              | Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy  | Hard-wired systems only. Only Elster Reed Switches to be used. One DER (digital electronic read outs) panel per building. |                    |                      | Only Reed switches from the meter manufacturer and repeaters supplied from the AMR supplier are accepted | NOT ACCEPTED BY SP                 |             |                       |
| 591 |   |   | Epitomy                     | Epitomy                |              |  |   |                    |                      |  |                                    |             |                       |
| 592 |   |   | Utility Technology          | Utility Technology     |              |  |   |                    |                      |  |                                    |             |                       |
| 593 |   |   | Halytech                    | Spider                 |              |  |   |                    |                      |  |                                    |             |                       |
| 594 |   |   | Ausmeter                    | Ausmeter               |              |  |   |                    |                      |  |                                    |             |                       |
| 595 |   |   | Itron                       | Everblu                |              |  |   |                    |                      |  |                                    |             |                       |
| 596 | SUMS  | Vivid Multi Logger  |                             |                        |              |  |   |                    |                      |  |                                    |             |                       |

| A       | B  | C                       | D                  | E  | F   | G   | H  | I   | J   | K  |
|---------|--|-------------------------|--------------------|--|---|---|--|---|---|--|
| Product | WSAA Product Specification No. with Service Provider Specific Requirements   | Manufacturer / Supplier | Trade Name         | Size Range                                 | Specified Requirements / Minimum Class  | The City of Gold Coast  | Logan City Council   | Redland City Council  | QUU   | Unitywater   |
| 597     | Meter boxes<br>No WSA-PS<br>1 - Lids Virgin HDPE with Box Virgin and/or regrid HDPE<br>2 - Lid in Box at Class A to AS 3996<br>3 - Lid shall have a slip resistant pattern that is certified to AS/NZS4586 for Table 2 ( Class W ) and Table 5 ( Classification R11 ).<br>4 - Lids shall snap-lock into the box and shall include a metal device for Location and a separate 2 mm Galvanised Chain or 2 mm SS304 wire rope fixed to the lid and box.<br>5 - The Lid shall have moulded on it's upper surface Water Meter and shall be coloured as per SEQ-SP's requirements. | Everhard Industries     |                    | 368L * 271W * 316D (for 20 mm meters only) | Blue, Black or Green meter box lids   | Blue Lid not permitted.<br><br>DN40 short box is the Dura 15"x21"x12" valve box with a "METER BOX" permanent label on lid or approved equivalent; DN40 long box is the Viscount (Linpac) P7 pit collars with a "METER BOX" permanent label on an aluminium lid or approved equivalent | Blue Lid not permitted                                       | Blue Lid not permitted                                      | NOT ACCEPTED BY SP  | Purple lid for non-drinking water meter box<br>Black or green lid for drinking water meter box<br>Blue lid not permitted |
| 598     |  | Everhard Industries     |                    | 492L * 271W * 316D                         |   |   |  |   |   |  |
| 599     |  | Draper                  |                    | 440L * 275W * 280D                         |   |   |  |   |   |  |
| 600     |  | Strongcast              |                    | 427L * 267W * 316D                         |   |   |  |   |   |  |
| 601     | Single check detector check valves<br>No WSA-PS<br>1 - Single Check valve to AS/NZS 2845.1<br>2 - Fitted with compliant meters as per above  | Emerson                 | VALVCHEQ           | DN100 & DN150                              | Model SC03. Flanged connection & spring set to 50 kPa   | NOT ACCEPTED BY SP  | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP  | Fitted with top accessible (basket type) inline strainer              |  |
| 602     | Double check valve (DCV), Double check detector assembly (DCDA)<br>No WSA-PS<br>AS/NZS 2845  | Emerson                 | VALVCHEQ           | DN40, 50, 100 & 150                        |   | Use is subject to acceptance by SP  | Use is subject to acceptance by SP                           | Use is subject to acceptance by SP                          | Use is subject to acceptance by SP                                    |  |
| 603     |  | Bermad                  | Cla-Val            |  |   |   |  |   |   |  |
| 604     |  | Hydroflow Distributors  | Watts              |  |   |   |  |   |   |  |
| 605     | Pre-assembled dual meter boxes<br>No WSA-PS<br>1 - Approved Supplier Assemblies as per SEQ-SP requirements   | Elster                  |                    | DN20                                       | Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy   | Install pre-assembled dual boxes as per SEQ-WAT-1106 set as well  | Subject to Approval of SP                                    | Install approved pre-assembled boxes as per SP requirements | NOT ACCEPTED BY SP  | Use is subject to acceptance by SP   |
| 606     |  | Tellam                  |                    |  |   |   |  |   |   |  |
| 607     |  | RMC                     | KIT235<br>WMKIT235 |  |   |   |  |   |   |  |
| 608     | Pre-assembled single meter boxes<br>No WSA-PS<br>1 - Approved Supplier Assemblies as per SEQ-SP requirements   | Strongcast              | SCMBA20            | DN20                                       | Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy   | Install pre-assembled single boxes as per SEQ-WAT-1106 set as well  | Install approved pre-assembled boxes as per SEQ-WAT-1110 set | Install approved pre-assembled boxes as per SP requirements | NOT ACCEPTED BY SP  | Use is subject to acceptance by SP   |
| 609     |  | Elster                  |                    |  |   |   |  |   |   |  |
| 610     |  | Tellam                  |                    |  |   |   |  |   |   |  |
| 611     |  | RMC                     | KIT236<br>WMKIT236 |  |   |   |  |   |   |  |
| 612     | Sub-meter assemblies - wall mount brackets<br>No WSA-PS<br>1 - Approved Supplier Assemblies as per SEQ-SP requirements   | Elster                  | 46492-00           | DN25                                       | Drinking or Non-drinking<br>Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy<br><br>For wall bracket assemblies the wall bracket shall be stainless steel rigid type | Only accepted with the use of approved slip couplings<br>Use is subject to acceptance by SP   | NOT ACCEPTED BY SP   | Install as per CoGC Sub-Meter Guideline                     | Use is subject to acceptance by SP                                    | Only accepted with no slip coupling<br>Use is subject to acceptance by SP  |
| 613     |  | Elster                  | 46491-00           | DN20                                       |   |   |  |   |   |  |
| 614     |  | Tellam                  |                    |  |   |   |  |   |   |  |
| 615     |  | All Valve               | SMA20M             | DN20                                       |   |   |  |   |   |  |
| 616     |  | Strongcast              | SCMLIM20           |  |   |   |  |   |   |  |
| 617     |  | Austworld               | SMK                |  |   |   |  |   |   |  |
| 618     |  | RMC                     | KIT227             |  |   |   |  |   |   |  |
| 619     | RMC  | KIT227Q                 |                    |  |   |   |  |   |   |  |
| 620     | Dual Check valves for Meter assemblies<br>DN40 and Larger<br>No WSA-PS<br>1 - Certified to AS/NZS 2845.1<br>2 - Non-Testable<br>3 - PN16 and Flanged to AS4087 Figure B5<br>4 - Ductile Iron body with AS4158 coating and lining or SS316 body or SS304 body if SS316 unavailable  | Emerson                 | VALVCHEQ           |  | Shall comply with relevant SEQ SP water meter/sub-meter specification and/or policy   | Alternatively figure DC03 double check valves are acceptable<br>Use is subject to acceptance by SP  | Use is subject to acceptance by SP                           | Use is subject to acceptance by SP                          | Use is subject to acceptance by SP                                    |  |
| 621     |  | Hydroflow Distributors  | Watts              |  |   |   |  |   |   |  |
| 622     | Reduced pressure zone device (RPZD),<br>Reduced pressure detector assembly (RPDA)<br>No WSA_PS<br>AS/NZS 2845  | LWG Zum                 | Model 375          |  |   | Use is subject to acceptance by SP  |  |   | Any brand with ISO Type 5 product certification to AS2845 is accepted | UW prefers RP03 RPZ<br>Use is subject to acceptance by SP  |
| 623     |  | RMC                     |                    |  |   |   |  |   |   |  |
| 624     |  | Pentair/Viadux          | RP03               |  |   |   |  |   |   |  |
| 625     |  | Hydroflow Distributors  | Watts              |  |   |   |  |   |   |  |
| 626     | Pressure Limiting Valve for Water Services<br>No WSA-PS<br>1 - Compliance with AS 4020, DR to AS 2345, AS 3718 and AS 3688.<br>2 - PN 16<br>3 - Male R thread to AS ISO 7.1 or Female Rp thread to AS ISO 7.1<br>4 - Watermark acceptance<br>5 - Set point 50 m  | RMC                     |                    | DN15 - DN50                                | Stainless Steel seat.<br>Not buried.  | Not used - Private Plumbing facility  | Use is subject to acceptance by SP                           | Use is subject to acceptance by SP                          | Not used - Private Plumbing facility                                  |  |
| 627     |  | NEFA                    |                    |  |   |   |  |   |   |  |
| 628     |  | Hydroflow Distributors  | Watts              |  |   |   |  |   |   |  |

| A   | B  | C  | D  | E   | F   | G  | H  | I  | J   | K  |
|---|--|--|--|---|---|--|--|--|---|--|
| Product   | WSAA Product Specification No. with Service Provider Specific Requirements | Manufacturer / Supplier  | Trade Name   | Size Range  | Specified Requirements / Minimum Class  | The City of Gold Coast   | Logan City Council   | Redland City Council   | QUU   | Unitywater   |
| <b>Category: WATER SUPPLY MISCELLANEOUS ITEMS</b> |  |  |  |   |   |  |  |  |   |  |
| 630   | Detectable marker tape   | 318<br>4.1 - Tape/Product Colour - Drinking Water = Blue<br>Non-Drinking Water = Purple.<br>Sewerage = Cream<br>4.2 - Message = "Caution ASSET DESCRIPTION Buried Below" or "Danger Buried ASSET DESCRIPTION Below"<br>4.3 - SS 316 tracer wire<br>4.4 - See 4.1 above   | Boddingtons  |   |   |  |  |  |   |  |
| 631   |  | Tapex  |  |   |   |  |  |  |   |  |
| 632   |  | LWG Zurn   |  |   |   |  |  |  |   |  |
| 633   |  | Rain Harvesting  | 421  |   |   | Use is subject to acceptance by SP   |  |  |   |  |
| 634   | Tracer wire  | 343<br>4.1 - CCS shall be AISI 1055 grade or higher<br>4.2 - Wire gauge Shall be 12 or thicker<br>4.3 - Minimum 520Kg<br>4.4 - Minimum 45mil<br>4.5 - minimum 1%<br>4.6 - as per standards<br>4.7 - as per standards<br>4.8 - Blue for Water Supply, Purple for Recycled Water and Cream for Pressure Sewer.   | Tapex  | Copperhead  | 500, 1000 and 2500 (feet)   | Approved are SoloShot EHS and SoloShot Xtreme for HDD and Pipe bursting etc.<br><br>Connectors to be used are:<br>• Pipe burst connector,<br>• DryConn 3-way direct bury lug connector<br>• DryConn direct bury twist on connector<br><br>Use of test station and/or grounding anode is accepted |  |  |   |  |
| 635   | Loose PE sleeving to DI pipe   | 320  | Viadux   | BLUEBOSS blue   |   | Mandatory sleeving to all DI pipe<br><br>Colours are Blue for Drinking Water and Purple for Non Drinking Water to POP203   |  |  |   |  |
| 636   |  |  | Crevet   |   |   |  |  |  |   |  |
| 637   | PVC - M conduits   | 209<br>4.1 - PN12<br>4.2 - Water Service Conduit<br>4.3 - Series 1 SCJ<br>4.4 - White for Water Conduit<br>4.5 - SCJ only  | Vinidex  | Hydro S1  |   | PN12 Series 1  | LCC also accepts 100 dia uPVC PN9 Series 1                                 |  |   | UW requires uPVC PN9 series 1 with solvent weld joint- Refer drawing SEQ-WAT-1108-1.   |
| 638   |  |  | Iplex  |   |   |  |  |  |   |  |
| 639   |  |  | Viadux   |   |   |  |  |  |   |  |
| 640   |  |  | Pipemakers   |   |   |  |  |  |   |  |
| 641   | Embedment material - crushed rock  | 351<br>4.1 - Single sized.<br>4.2 - Nominal 5 or 7 mm  |  |   |   |  |  |  |   |  |
| 642   | Embedment material - recycled concrete                                     | 366<br>4.1 - Single sized 10 mm nominal<br>4.2 - Moisture Content by design  | Queensland Recycling   |   |   | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP   | NOT ACCEPTED BY SP   |   | NOT ACCEPTED BY SP   |
| 643   | Bedding sand   | AS/NZS 2566.2<br>Table G3 for sand.  |  |   |   | Main pipe and large service pipe (DN63 and Larger) uses are subject to acceptance by SP<br><br>Small service pipe uses (DN25- DN50 PE) are mandatory   | Main pipe use is subject to acceptance by SP<br>Service pipe use mandatory | Main pipe use is subject to acceptance by SP<br>Service pipe use mandatory |   |  |
| 644   | Concrete   | 357<br>4.1 - N20 for Thrust Blocks and Unreinforced embedment.<br>N25 for reinforced embedment<br>4.2 - Slumps as required for placement   |  |   |   | Normal class   |  |  |   |  |
| 645   | Security fencing   |  |  |   | AS1725.1 Chain Link Fabric Fencing-powder coated black                            | Fence details generally to CoGC Standard Drawing 05-014  | Fence details generally to CoGC Standard Drawing 05-014                    | Fence details generally to CoGC Standard Drawing 05-014                    | Use is subject to acceptance of SP              | In accordance with Unitywater's specification Pr9903 - Specification for Building and Structural Works, Section 5.15 Security Fencing. |
| 646   | Casing Spacers   | 324<br>4.1 - Carrier pipes OD from 100mm to 1668mm<br>4.2 - Min space between carrier pipes and encasing pipes 50mm  | HDX Series   | Runner height of 38, 65, 90 and 125 mm  | For SCL, DI, PE, PVC, Concrete, GRP and FRP carrier pipes                         |  |  |  |   |  |
| 647   |  |  | HD Series  | Runner height of 30, 50, 75 and 100mm<br>110mm OD to 355mm OD (un-grouted annulus).<br>May be used on carrier pipe diameters greater than 355mm OD where the annulus will be grouted. | For SCL, DI, PE, PVC and GRP carrier pipes  | Use is subject to acceptance of SP   | Use is subject to acceptance of SP   | Use is subject to acceptance of SP   | Use is subject to acceptance of SP              |  |
| 648   | Plastic marker post  | 1- Comply with Main Roads specification MRS11.14   | Park International   |   | 1350 mm Long x 100 mm Wide x 4 mm Thick   | As per SEQ-WAT-1300-2  |  |  |   |  |
| 649   | Kerb Markers   | No WSA - PS  | All products meeting the specified requirements are accepted |   | Brass at DN40 (cast-in) or SS at DN38 (cast-in or Pin set) with 22 high lettering | As per SEQ-WAT-1300-1  |  |  | Only Brass markers accepted for conduit markers | Only Brass markers accepted  |
| 650   | Camlock  |  |  |   |   | S/Steel 316  |  |  |   | Maximum DN100  |
| 651   | Valve pit access cover and frame   | 290<br>4.1 - 600 x 900 mm (Min )<br>4.2 - solid top, Sealed Type<br>4.3 - 600 by 900 mm Clear Opening (Min.)<br>4.4 - Class B for non-trafficable areas and Class D for trafficable areas<br>4.5 - Rocking of cover in frame not permitted<br>4.6 - Lifting Key as per Standard Drawings<br>4.7 - Markings to AS3996 Clause 1.6 (a) to (f).<br>4.8 - Hinge ( Unitywater requires no Hinged access cover)<br>4.9 - Standard Packaging and Delivery<br>4.10 - QUU require QUU cast in as per Standard Drawings<br>4.11 - Standard Coating<br>4.12 - Bolt down requirement by design<br>4.13 - Weatherproof (sealed) Aluminum | McBerns (Aluminium)  |   |   | Refer Standard Drawing SEQ-WAT-1308-1  | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP              | Use is subject to acceptance by SP   |
| 652   |  |  | Gatic  |   |   |  |  |  |   |  |
| 653   |  |  | Tellam   |   |   |  |  |  |   |  |
| 654   |  |  | Webforge   |   |   |  |  |  |   |  |
| 655   |  |  | Hygrade  |   |   |  |  |  |   |  |
| 656   |  |  | EJ   |   |   |  |  |  |   |  |
| 657   |  |  | Durham   |   |   |  |  |  |   |  |
| 658   | Valve pit lightweight composite lids and frames (non-corrosive)            | 292<br>4.1-600 x 900 mm (Min.)<br>4.2-600 by 900 mm Clear Opening (Min.)<br>4.3-Standard Lifting Key<br>4.4-Markings to AS3996 Clause 1.6 (a) to (f)<br>4.5-Standard packaging<br>4.6-No specific markings required<br>4.7 - Bolt down requirement by design   | Prime Composites   |   |   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP   | Use is subject to acceptance by SP              | Use is subject to acceptance by SP   |

|     | A                           | B  | C                       | D          | E          | F                                      | G  | H   | I   | J                                  | K   |
|-----|-----------------------------|--|-------------------------|------------|------------|--|--|---|---|------------------------------------|---|
| 1   | Product                     | WSAA Product Specification No. with Service Provider Specific Requirements   | Manufacturer / Supplier | Trade Name | Size Range | Specified Requirements / Minimum Class | The City of Gold Coast   | Logan City Council  | Redland City Council  | QUU                                | Unitywater  |
| 659 | Protective external coating | No WSA Product Specification<br>4.1 Two component solvent free polyurethane<br>4.2 Suitable for provision of single coats >=0.6mm thick<br>4.3 Excellent stated resistance to Sulphuric Acid via Test results<br>4.4 Minimum 15 minute Pot Life at 20 degrees C<br>4.5 Light coloured<br>4.6 Applied to manufacturers requirements<br>4.7 Combined 10 year warranty from Applicator and Manufacturer | Steuler KCH             | Oxydur PTB |            | Colour white to grey & heritage green  | Use is subject to acceptance by SP.<br>External coatings at min 0.3 mm thick dry film via single coat.<br>Sulphuric Acid resistance to suit site conditions.<br>SP Approved Equivalents are the listed Internal coatings | Use is subject to acceptance by SP (minimum 2.0 mm thickness)<br>Excellent resistance to Sulphuric Acid | Use is subject to acceptance by SP (minimum 2.0 mm thickness)<br>Excellent resistance to Sulphuric Acid | Use is subject to acceptance by SP | Use is subject to acceptance by SP (minimum 2.0 mm thickness) |

| A   | B  | C                       | D                                    | E  | F   | G                                  | H   | I                                  | J                                  | K   |
|---|--|-------------------------|--------------------------------------|--|---|------------------------------------|---|------------------------------------|------------------------------------|---|
| Product                                     | WSAA Product Specification No. with Service Provider Specific Requirements   | Manufacturer / Supplier | Trade Name                           | Size Range   | Specified Requirements / Minimum Class  | The City of Gold Coast             | Logan City Council                                      | Redland City Council               | QUU                                | Unitywater  |
| <b>Category: EMERGENCY STORAGE CHAMBERS</b> |  |                         |                                      |  |   |                                    |   |                                    |                                    |   |
| 661   | Emergency Storage Chamber<br>402<br>2.(a) – WSA 129:2011 (or equivalent)<br>4.1 to 4.4 – Requirements to be specified by SEQ-SP on a case-by-case basis. | Envirotank Pty Ltd      | Envirotank - Water/Wastewater Tank   | From 4.8 m x 1.2 m dia. (5kl) to 16.4 m x 3.0 m dia. (110kl) | Fibreglass construction<br>As per SEQ-SPS-1402-1                                | Use Accepted - 30 Year Warranty    | Use Accepted - 30 Year Warranty                         | Use Accepted - 30 Year Warranty    | Use is subject to acceptance by SP | Use Accepted - 30 Year Warranty   |
| 662   |  | Rocla                   | Concrete Detention System            | Conc. Box units (2.4 m modules)                              | Reinforced Concrete - Sacrificial layer or Plastilined<br>As per SEQ-SPS-1402-1 | CoGC accepts only PE lined Pipe    | LCC accepts only PE lined Pipe                          | RCC accepts only PE lined Pipe     |                                    | UW accepts only PE lined Pipe   |
| 663   |  | Humes                   |                                      | Conc. Pipe units (2.44 m modules)                            |   |                                    |   |                                    |                                    |   |
| 664   |  | Rocla                   | Plastic Detention System 'Plastream' | 1.5 m to 2.25 m dia (10kl to 250kl)                          | PE spirally wound steel-reinforced pipe<br>As per SEQ-SPS-1402-1                | Use is subject to acceptance by SP | Use is subject to acceptance by SP                      | Use is subject to acceptance by SP | Use is subject to acceptance by SP | <b>NOT ACCEPTED BY SP</b>   |
| 665   |  | Chemstore Group         | Hydrosave                            | From 1.2 m to 3.5 m dia and 2.5 m to 20 m length             | Fibreglass construction<br>As per SEQ-SPS-1402-1                                | Use is subject to acceptance by SP |   | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use Accepted with condition of 30 Year Warranty & Providing access opening of larger size about 1200 mm opening |
| 666   |  | Aquatec Fluid Systems   | Aquatec Fibreglass Storage Vessels   | From 1 m to 4 m dia and 1 m to 20 m length                   | Fibreglass construction<br>As per SEQ-SPS-1402-1                                |                                    | Use accepted - Warranty acceptable to SP to be provided |                                    |                                    |   |
| 667   |  | Tank Solutions          | Mullaly                              | 1470mm to 3275mm in diameter<br>3.3m to 15m in length        | Fibreglass construction<br>As per SEQ-SPS-1402-1                                | Use is subject to acceptance by SP | Use is subject to acceptance by SP                      | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use is subject to acceptance by SP  |
| 668   |  | Polynex                 | Polynex                              | From 600mm to 3000mm in diameter                             | Double walled HDPE<br>As per SEQ-SPS-1402-1                                     | Use is subject to acceptance by SP | Use is subject to acceptance by SP                      | Use is subject to acceptance by SP | Use is subject to acceptance by SP | Use Accepted - Minimum 20 year warranty   |