

QUEENSTOWN LAKES DISTRICT COUNCIL

THREE WATERS FACILITY
ASSET IDENTIFICATION SPECIFICATION

APRIL 2017

DOCUMENT HISTORY

Version	Action	Date	Prepared by	Approved by
1.00	First Draft	March 2016	Mark Baker	Myles Lind
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1. APPLICATION

This specification applies to all water facility assets that will be vested in or are currently managed by Queenstown Lakes District Council.

2. PURPOSE

The purpose of this specification is to establish a framework of principles to be applied to the representation of three water facility assets in the Hansen Asset Management System (AMS) and operational documents.

A facility is defined as a plant or process that is distinctly separated from the distributed network assets. Facilities include, but are not limited to:

- Wastewater treatment plants
- Wastewater pump stations
- Water Supply treatment plants
- Water supply pump stations

There are currently no stormwater pump stations or treatment facilities within the QLDC network, it is intended that these will be included as and when required. Consideration of including other stormwater assets is underway and may be included in future versions.

It is intended that this specification will ensure that the assets can be accurately valued and effectively managed.

It should be noted that network (distributed) assets are entered into Hansen via GIS as per the QLDC As-Built Standard and are not subject to this specification.

3. RELATED DOCUMENTS

This specification should be read in conjunction with the following documents:

- QLDC As-built Standard
- QLDC Land Development and Subdivision Code of Practice (NZS 4404/2010 with QLDC amendments)

4. ASSET REPRESENTATION IN THE ASSET MANAGEMENT SYSEM

To facilitate the purpose of this document, the following will be required/generated for each asset within a facility:

UnitID - Unique ID generated by the Asset Management System (AMS) when the individual asset is created in the AMS environment.

Position ID – a descriptive ID of the function of the asset within the facility.

Asset Register Data – a list of the required asset specification data prior to its import into the AMS. See section 5.

Piping and Instrumentation Diagram (P&ID) - A diagram which shows the interconnection of process equipment and the instrumentation used to control the process¹

UnitID

For facility asset types the UnitID is automatically generated by Hansen using a combination of the Asset Equipment Codes (see Appendix B) and the unique numeric identifier (compkey) generated in Hansen. E.g.

¹ As defined by the Institute of Instrumentation and Control

VLV	150203
Asset Equipment Type	Unique ID (Compkey)

Position ID

A facility is likely to contain one or more individual process areas depending on the design and sophistication of that

The process ID is it to be generated by the designer or owner (where the asset is to be vested) by concatenating the following four elements separated by hyphens:

- Facility ID
- Process ID
- Asset Equipment Code
- **Equipment Number**

Facility ID

Facility ID is generated by QLDC within Hansen and is a four character alpha code. This is created from two parts, the first being a two character code describing the facility type, followed by a two character code to identify the specific facility. A longer descriptive name can follow the 4 character code. The current allocated names are listed in Appendix A. E.g.

ST	SP	Shotover Ponds
Facility Type	Facility ID (Shotover	Facility Descriptive Name
(Sewer Treatment)	Ponds)	

Process ID

The appropriate two digit process area code is to be selected from one of the types listed in appendix B. New codes are required to be approved by QLDC prior to their use. E.g. 01 (Intake and Screening)

Asset Equipment Code

The appropriate three character alpha asset equipment code is to be selected from one of the types listed in appendix C. New codes are required to be approved by QLDC prior to their use. E.g. SCR (Screen)

Equipment Number

A three character sequential numeric ID to uniquely identify multiple occurrences of the same asset type within the facility/process. E.g. 001

This will result in a Position IDs as per the following examples:

Shotover ponds sewer treatment plant inlet screen one:

STSP	-	01	-	SCR	-	001
Facility ID		Process ID		Equipment Code		Equipment Number

Shotover ponds sewer treatment plant inlet screen two:

STSP	-	01	-	SCR	-	002
Facility ID		Process ID		Equipment Code		Equipment Number

Shotover ponds sewer treatment plant UV reactor one:

STSP	-	07	-	UVS	-	001
Facility ID		Process ID		Equipment Code		Equipment Number

Asset Register Data

As per the QLDC Land Development & Subdivision Code of Practice an asset register is required to be provided to the adopted format / level of detail. The asset register shall include (but not be limited to) all process units, civil structures and buildings, earth structures, pipes and appurtenances, process tankage, mechanical and electrical equipment.

Individual assets shall be componentised by the expected design life and the physical location of the assets.

Asset costs are to be the actual cost applicable to each item plus any overhead allocation or installation costs that are included in the Contractor's Contract costs.

5. RESPONSBILITIES

Designer

The designer or owner (where the asset is to be vested) is responsible for the creation of the Position ID, along with the reference of the Position ID within all appropriate documents including, but not limited to, design drawings, P&IDs, functional documents and asset schedules.

Construction Contractor

The construction contractor or owner (where the asset is to be vested) is responsible for the tagging of assets with the Position ID. All items that are assigned a Position ID shall be physically tagged on site using a system that does not suffer degradation due to environmental conditions such as sunlight or gaseous emissions. The tags for each asset shall be connected by use of a plastic cable tie, the tag itself shall be made from stainless steel and the tag number punched into

QLDC

To enable the generation of position IDs, QLDC will provide a facility ID following a request to the Asset Planning Team (infrastructureassetplanningteam@qldc.govt.nz).

6. IMPROVEMENT PLAN

- Improve definition and delineation of facility and network assets.
- Incorporate a Piping and Instrumentation Diagram (P&ID) standard.
- Improve the definitions around the level of componentisation.
- Consider inclusion of include Stormwater detention basins and/or soak pits.

7. REVIEW

This specification will be reviewed annually.

Wastewater - Pump

Wastewater - Treatment

TABLE A – FACILITY NAMES

The following are currently allocated facility names as at March 2016.

Water - Pump StationsWater - TreatmentWater - ReservoirsStationsPlantsWPAR-ANDERSON RD BSTWTBP-BEACON POINTWRAP-ARTHURS POINTSPA1-ALISON AVE #2SPMP-MARINE PARADESTHP-HAWEA PONDSWPAT-ARROWTOWNWTKH-KELVIN HEIGHTSWRAR-ARROWTOWNSPA2-KINGSTON STREETSPMR-MCDONNELL RDSTPP-PROJECT PUREWPB3-ARROWTOWN BOOSTWTLE-LAKE HAYES ESTWRBP-BEACON POINTSPA3-ALISON AVE #1SPNI-NICHOL STREETSTSP-SHOTOVER PONDSWPBF-BORE ARTHURS PTWTLG-LUGGATEWRF1-FERNHILL #1SPAP-OXNBRDGE TUN RDSPNS-NORFOLK STREETWPBG-BORE GLENORCHYWTLH-LAKE HAYESWRF2-FERNHILL #2SPAT-ATLEY ROADSPOR-OUTLET ROADWPBL-BALMORAL BOOSTWTRB-ROYS BAYWRF3-FERNHILL #3SPBM-ARTN-LK HAYS RDSPP1-ALBERTTOWN #1WPBP-BEACON POINTWTTM-TWO MILEWRGB-GLENDHU BAYSPBV-BAYVIEW RDSPP2-ALBERTTOWN #2WPBV-BROADVIEW RISEWTWI-WESTERN INTAKEWRGF-GOLDFIELDSSPCD-CEDAR DRIVESPP3-RIVERBANK RD	
WPAT-ARROWTOWN WTKH-KELVIN HEIGHTS WRAR-ARROWTOWN SPA2-KINGSTON STREET SPMR-MCDONNELL RD STPP-PROJECT PURE WPB3-ARROWTOWN BOOST WTLE-LAKE HAYES EST WRBP-BEACON POINT SPA3-ALISON AVE #1 SPNI-NICHOL STREET STSP-SHOTOVER PONDS WPBF-BORE ARTHURS PT WTLG-LUGGATE WRF1-FERNHILL #1 SPAP-OXNBRDGE TUN RD SPNS-NORFOLK STREET WPBG-BORE GLENORCHY WTLH-LAKE HAYES WRF2-FERNHILL #2 SPAT-ATLEY ROAD SPOR-OUTLET ROAD WPBL-BALMORAL BOOST WTRB-ROYS BAY WRF3-FERNHILL #3 SPBM-ARTN-LK HAYS RD SPP1-ALBERTTOWN #1 WPBP-BEACON POINT WTTM-TWO MILE WRGB-GLENDHU BAY SPBV-BAYVIEW RD SPP2-ALBERTTOWN #2	
WPB3-ARROWTOWN BOOST WTLE-LAKE HAYES EST WRBP-BEACON POINT SPA3-ALISON AVE #1 SPNI-NICHOL STREET STSP-SHOTOVER PONDS WPBF-BORE ARTHURS PT WTLG-LUGGATE WRF1-FERNHILL #1 SPAP-OXNBRDGE TUN RD SPNS-NORFOLK STREET WPBG-BORE GLENORCHY WTLH-LAKE HAYES WRF2-FERNHILL #2 SPAT-ATLEY ROAD SPOR-OUTLET ROAD WPBL-BALMORAL BOOST WTRB-ROYS BAY WRF3-FERNHILL #3 SPBM-ARTN-LK HAYS RD SPP1-ALBERTTOWN #1 WPBP-BEACON POINT WTTM-TWO MILE WRGB-GLENDHU BAY SPBV-BAYVIEW RD SPP2-ALBERTTOWN #2	
WPBF-BORE ARTHURS PT WTLG-LUGGATE WRF1-FERNHILL #1 SPAP-OXNBRDGE TUN RD SPNS-NORFOLK STREET WPBG-BORE GLENORCHY WTLH-LAKE HAYES WRF2-FERNHILL #2 SPAT-ATLEY ROAD SPOR-OUTLET ROAD WPBL-BALMORAL BOOST WTRB-ROYS BAY WRF3-FERNHILL #3 SPBM-ARTN-LK HAYS RD SPP1-ALBERTTOWN #1 WPBP-BEACON POINT WTTM-TWO MILE WRGB-GLENDHU BAY SPBV-BAYVIEW RD SPP2-ALBERTTOWN #2	
WPBG-BORE GLENORCHY WTLH-LAKE HAYES WRF2-FERNHILL #2 SPAT-ATLEY ROAD SPOR-OUTLET ROAD WPBL-BALMORAL BOOST WTRB-ROYS BAY WRF3-FERNHILL #3 SPBM-ARTN-LK HAYS RD SPP1-ALBERTTOWN #1 WPBP-BEACON POINT WTTM-TWO MILE WRGB-GLENDHU BAY SPBV-BAYVIEW RD SPP2-ALBERTTOWN #2	,
WPBL-BALMORAL BOOST WTRB-ROYS BAY WRF3-FERNHILL #3 SPBM-ARTN-LK HAYS RD SPP1-ALBERTTOWN #1 WPBP-BEACON POINT WTTM-TWO MILE WRGB-GLENDHU BAY SPBV-BAYVIEW RD SPP2-ALBERTTOWN #2	
WPBP-BEACON POINT WTTM-TWO MILE WRGB-GLENDHU BAY SPBV-BAYVIEW RD SPP2-ALBERTTOWN #2	
WDDV DDADVIEW DISE WYW WESTEDN INTAVE WDCE COLDEIEDS SDCD CEDAD DDIVE SDD2 DIVERDANV DD	
WPBV-BROADVIEW RISE WTWI-WESTERN INTAKE WRGF-GOLDFIELDS SPCD-CEDAR DRIVE SPP3-RIVERBANK RD	
WPCD-COREBRIDGE BORE WRGR-GLENORCHY SPCR-CEMETERY RD SPPL-PARK ST LIFT	
WPF1-FERNHILL #1 WRHR-HAWEA SPD1-DUNGARVON #1 SPPS-PARK STREET	
WPF2-FERNHILL #2 WRKH-KELVIN HEIGHTS SPD2-DUNGARVON #2 SPRP-REMARKS PARK #1	
WPFD-FRANKTON RD WRLC-LOMOND CRESCENT SPDR-DOMAIN ROAD SPSB-SUNSHINE BAY	
WPGB-GLENDHU BAY WRLE-LAKE HAYES EST SPEA-ESSEX AVENUE SPT1-CHURCH RD	
WPGD-GLENDA DRIVE WRLH-LAKE HAYES SPEP-EELY POINT SPT2-HARRIS PLACE	
WPHA-HAWEA WRLR-LUGGATE SPEW-EDGEWATER SPT4-ALICEBURNDR #1	
WPHH-HIDDEN HILLS WRMI-MOUNT IRON SPF2-FRANKTON BEACH SPT5-ALICEBURNDR #2	
WPHI-HIGHVIEW TCE WRQ1-QTOWN HILL #1 SPFB-FRANKTON BEACH SPTB-TUCKERS BEACH	
WPHT-HEATON PARK WRQ2-QTOWN HILL #2 SPFF-FASTFLO BLOCK SPW1-THREEPWOOD #1	
WPKH-KELVIN HEIGHTS WRQR-QUAIL RISE SPFS-FREDERICK ST SPW2-THREEPWOOD #2	
WPL1-LAKE HAYES EST WRRV-REMARKABLESVIEW SPGO-GORGE ROAD SPW7-THREEPWOOD #7	
WPLA-HAYES EST BST WRWR-WESTERN SPGR-GORDON ROAD SPWA-WAN-LUGG HWY #1	
WPLC-LOMOND CRES SPH1-HAWEA ESPLANADE SPWL-WILLOW PLACE	
WPLG-LUGGATE SPH2-SCOTTS BEACH SPWP-WAIMANA PLACE	
WPLH-LAKE HAYES SPHD-HIKUWAI DRIVE	
WPLW-QTOWN HILL #1 SPK1-LAKESIDE RD #1	
WPMD-MARINA DRIVE SPK2-LAKESIDE RD #2	
WPML-MIDDLETON SPKP-KAWARAU PLACE	
WPPW-PANNERS WAY SPL1-LAKE HAYES #1	
WPSC-Shotover Bore SPL2-LAKE HAYES #2	
WPTM-TWO MILE SPL3-LAKE HAYES #3	
WPWA-WANAKA AIRPORT SPL4-LAKE HAYES #4	
WPWB-THREEPWOOD BST SPL5-LAKE HAYES #5	
WPWW-WESTERN WANAKA SPL6-LAKE HAYES #6	

TABLE B – PROCESS ID'S

The following are acceptable, as at March 2016, any addition to this list is required to be agreed with the QLDC Asset Planning Team prior to their use.

WW Treatme	ent	WS Intake/Treatment				
01	General and Ancillary	41 General and Ancillary				
02	Inlet and Screening	42 Bore / Inlet (Including Pumps)				
03	Biological Treatment	43 Disinfection				
04	Clarifier	44 Contact Tanks				
05	RAS / Sludge Return Line					
06	Sludge Handling / Drying	WS Pump Stations (Network)				
07	Disinfection					
		51 General and Ancillary				
WW Pump S	tations	52 Bore / Inlet				
		53 Electrical and Pumps				
21	General and Ancillary	54 Outlet				
22	Inlet and Operational Storage					
23	Emergency Storage	WS Storage				
24	Electrical and Pumps					
25	Outlet	61 Inlet				
		62 Storage				
		63 Outlet				

TABLE C – ASSET EQUIPMENT CODES

The following are acceptable, as at March 2016, any addition to this list is required to be agreed with the QLDC Asset Planning Team prior to their use.

Air Blower FAN Fan LPU Lightening Arrester SCL Scales Air Conditioner FIC Flow Indicator Controller LSH High Level Switch SCR Mechanical Screen FIC Aerator FIN Flow Indicating Transmitter LSL Low Level Switch SL Acoustic Silencer CC Analyser Indicator Controller FIR Flow Indicating Readout LSN Level Sensor SLT Sludge Storage Tank Air Bleed Valve FIT Pipes and Fittings LTM Level Transmitter SLV Ball, Gate, Sluice Valve LD Acoustic Door FLC Flowmeter Chamber LTR Level Transmitter SLV Ball, Gate, Sluice Valve LD Acoustic Door FLC Flowmeter Chamber LTR Level Transmitter SVL Ball, Gate, Sluice Valve LD Acoustic Door FLC Flowmeter Chamber LTR Level Transmitter SVL Ball, Gate, Sluice Valve LD Acoustic Door FLC Flowmeter Chamber LTR Level Transmitter SVL Ball, Gate, Sluice Valve LD Acoustic Door FLC Flowmeter Chamber LTR Level Transmitter SVL Ball, Gate, Sluice Valve LD Acoustic Door FLC Flowmeter Chamber LTR Level Transmitter SVL Ball, Gate, Sluice Valve LD Acoustic Door FLC Flowmeter Chamber LTR Level Transmitter SVL Ball, Gate, Sluice Valve LD Acoustic Door FLC Flowmeter Chamber LTR Level Transmitter SVL Ball, Gate, Sluice Valve LD Acoustic Door FLC Flowmeter GNL Macoustic Macoustic Macoustic Macoustic SPN Solar Panel All Analogue Output Module FLM Flowmeter MET Meter SPN Solar Panel LD Acoustic Door FLC Flowmeter GNL Macoustic Mile Macoustic M	Equipmen	t	Equipme	nt	Equipme	nt	Equipme	nt
Air Conditioner FIC Flow Indicator Controller LSH High Level Switch SCR Mechanical Screen FIN Flow Indicating Transmitter LSL Low Level Switch SL Acoustic Silencer C Analyser Indicator Controller FiR Flow Indicating Transmitter LSL Low Level Switch SL Acoustic Silencer C Analyser Indicator Controller FiR Flow Indicating Readout LSN Level Bensor SLT Sludge Storage Tank V Air Bleed Valve FIT Pipes and Fittings LTM Level Transmitter SLV Ball, Gate, Sluice Valve LD Acoustic Door FLC Flowmeter Chamber LTR Level Transmuter SUV Ball, Gate, Sluice Valve LD Acoustic Door FLC Flowmeter Chamber LTR Level Transmuter SPN Solar Panel FL Flexible Joint MAC Macreator SPI Speed Indicator DM Analogue Output Module FLM Flowmeter MET Meter DM Analogue Output Module FLM Flowmeter MET Meter SPN Solar Panel SSR Assembly Kit FLS Flushing Connection MHL Manhole/ Lampholes/ Cleaning E SPR Sprinkers SM Alarm System FLT Cartridge Filter MIX Mixer MIX Mixer STA Soft Starter DT Autosampler FNK Fuel Tank MIX Mixer TT Autosampler FNK Fuel Tank MIX Mixer MIX Mixer STA Soft Starter DT Autosampler FNK Fuel Tank MIX Mixer Ontroller SIN Strainer MIX Bin/Skip FSW Flow Switch MOC Moisture Controller SIN Surge Controller N Bin/Skip FSW Flow Switch MOC Moisture Monitoring Probe SWB Switchboard SNB Backflow Preventer GCN Generator Connection MPR Motor Protection Relay SWR Software BR Cabinetry GEN Generator MTC Motor Control TAP Sample tap or similar MM Camilock Coupling GNC Generator Controller MTR Motor Control TAP Sample tap or similar MM Camilock Coupling GNC Generator Controller MTR Motor Control TAR Tariff Metering BR Cabinetry GRN GRS Grilles BR Cabinetry GRN GRS Grilles BR Cabinetry GRN GRS Grilles BR Cabinetry GRN GRN GRS Grilles BR Cabinetry GRN	Туре	Description	Туре	Description	Туре	Description	Туре	Description
FIT Aerator FIN Flow Indicating Transmitter LSL Low Level Switch SIL Acoustic Silencer Composition of Analyser Indicator Controller FIR Flow Indicating Readout LSN Level Sensor SIT Sludge Storage Tank V Air Fleed Valve FIT Pipes and Fittings LTM Level Transmitter SLV Ball, Gate, Sluice Valve PLD Acoustic Door FLC Flowmeter Chamber LTR Level Transmitter SLV Ball, Gate, Sluice Valve PLD Analogue Output Module FLM Flowmeter MET Meter SPN Solar Panel DOM Analogue Output Module FLM Flowmeter MET Meter SPN Solar Panel SBB Assembly Kit FLS Flushing Connection MHL Manhole/ Lampholes/ Cleaning E SPR Sprinklers SBM Alarm System FLT Cartridge Filter MIX Mixer STA Soft Starter STA Backup Battery FRE Fire System MOC Moisture Controller SUR Surge Controller SUR Surge Controller SPR Switchboard Generator Connection MPR Motor Protection Relay SWR Software ABB Cabinetry GEN Generator Connection MPR Motor Protection Relay SWR Software ABB Cabinetry GRN Generator Controller MTC Motor Control TAP Sample tap or similar ATA Tariff Metering GRC Generator MTC Motor Control TAP Sample tap or similar ATA Tariff Metering GRC Generator MTC Motor Control TAP Sample tap or similar ATA Tariff Metering GRC Generator MTC Motor Control TAP Tariff Metering ABB Cabinetry GRS Grilles PAT MOTOR TAP Sample tap or similar ATA Tariff Metering ABB Cabinetry GRS Grilles PAT Pressure Break Tank TEL Telemetry GRB Chorine Analyser GRS Grilles PAT Pressure Break Tank TEL Telemetry GRB Chorine Analyser GRS Grilles PAT Pressure Break Tank TEL Telemetry GRB Chorine Sensor HAM Hammer Resister PIC Pressure Break Tank TEL Telemetry GRB Chorine Sensor HAM Hammer Resister PIC Pressure Break Tank TEL Telemetry GRB Chorine Sensor HAM Hammori Filter PIP Pipework TEM TEM Temperature Alarm Chorine Control GRB Control Panel HST Hoist PAM Hammori Filter PIP Pipework TEM TEM Temperature Alarm Chorine Control Panel HST Hoist PAM Hammori Filter PIP Pipework TEM TEM Temperature Alarm Chorine Control Panel HST	ABL	Air Blower	FAN	Fan	LPU	Lightening Arrester	SCL	Scales
CC Analyser Indicator Controller FIR Flow Indicating Readout LSN Level Sensor SLT Sludge Storage Tank V Air Bleed Valve FIT Pipes and Fittings LTM Level Transmitter SLV Ball, Gate, Sluice Valve LD Acoustic Door FLC Flowmeter Chamber LTR Level Transducer SOL Solenoid Valve NT Antenna/ Arial FLU Flexible Joint MAC Macerator SPI Speed Indicator DM Analogue Output Module FLM Flowmeter MET Meter SPN Solar Panel SSB Assembly Kit FLS Flushing Connection MHL Mahole/ Lampholes/ Cleaning E SPR Sprinklers SM Alarm System FLT Cartridge Filter MIX Mixer STA Soft Starter UT Autosampler FNK Fuel Tank MKV Motorised Knife Gate Valve STI Strainer AT backup Battery FRE Fire System MOC Moisture Controller N Bin/Skip FSW Flow Switch MOI Moisture Controller SIR Surge Controller N Bin/Skip FSW Flow Switch MOI Moisture Monitoring Probe SWB Switchboard Schientry GEN Generator Connection MPR Motor Protection Relay SWR Software AMC Canlock Coupling GNC Generator Connection MPR Motor Control AMC Canlock Coupling GNC Generator Controller MTR Motor Control AMC Canlock Coupling GNC Generator Controller MTR Motor Control AMC Canlock Coupling GNC Generator Controller MTR Motor Control AMC Canlock Coupling GNC Generator Controller MTR Motor Control AMC Canlock Coupling GNC Generator Controller MTR Motor Control AMC Canlock Coupling GNC Generator Controller AMC Canlock Coupling GNC Generator Synchroniser PNE PNET Pressure Break Tank TEL Telemetry AMC Canlock Coupling GNC Generator Synchroniser PNET Pressure Break Tank TEL Telemetry AMC Canlock Deser GSY Generator Synchroniser PNET Pressure Indicating Controller TRA Pressure Transducer AMC Canber Lid HMI Human Machine Interface PLC Programme Logic Controller TRA Pressure Transducer AMC Control Panel HST Host PMC Pump Control TRN Transformer AMC Control Panel HST Host Pressure Gauge TUR Telemetry Nation AMC Control Panel HST Host Prigation System PNE Pressure Ga	ACD	Air Conditioner	FIC	Flow Indicator Controller	LSH	High Level Switch	SCR	Mechanical Screen
V Air Bleed Valve FIT Pipes and Fittings LTM Level Transmitter SLV Ball, Gate, Sluice Valve D.D Acoustic Door FLC Flowmeter Chamber LTR Level Transducer SOL Solenold Valve D.M Analogue Output Module FLM Flexible Joint MAC Macerator SPN Speak Indicator D.M Analogue Output Module FLM Flowmeter MET Meter SPN Solar Panel B.B Assembly Kit FLS Flushing Connection MHL Manhole/ Lampholes/ Cleaning E SPR Sprinklers M.M Marm System FLT Cartridge Filter MIX Mixer STA Soft Starter U.T Autosampler FNK Fluel Tank MKV Motorised Knife Gate Valve STI Strainer U.T Autosampler FNK Fuel Tank MKV Motorised Knife Gate Valve STI Strainer U.T Autosampler FNK Fuel Tank MKV Motorised Knife Gate Valve <	AET	Aerator	FIN	Flow Indicating Transmitter	LSL	Low Level Switch	SIL	Acoustic Silencer
LD Acoustic Door FLC Flowmeter Chamber LTR Level Transducer SOL Solenoid Valve NTT Antenna / Arial FLJ Flexible Joint MAC Macerator SPI Speed Indicator ODM Analogue Output Module FLM Flowmeter MET Meter SPN Solar Panel 658 Assembly Kit FLS Flushing Connection MHL Manhole/ Lampholes/ Cleaning E SPR Sprinklers 658 Assembly Kit FLS Flushing Connection MHL Manhole/ Lampholes/ Cleaning E SPR Sprinklers 658 Assembly Kit FLS Flushing Connection MHL Manhole/ Lampholes/ Cleaning E SPR Sprinklers 658 Assembly Kit FLS Flushing Connection MHL Manhole/ Lampholes/ Cleaning E SPR Sprinklers 658 Assembly Kit FLS Flushing Connection MHL Manhole/ Lampholes/ Cleaning E SPR Sprinklers 658 Assembly Kit FLS Flushing Connection MHL Manhole/ Lampholes/ Cleaning E SPR Sprinklers 658 SPR	AIC	Analyser Indicator Controller	FIR	Flow Indicating Readout	LSN	Level Sensor	SLT	Sludge Storage Tank
Antenna/ Arial FLJ Flexible Joint MAC Macerator SPI Speed Indicator DM Analogue Output Module FLM Flowmeter MET Meter SPN Solar Panel SSB Assembly Kit FLS Flushing Connection MHL Manhole/ Lampholes/ Cleaning E SPR Sprinklers SM Alarm System FLT Cartridge Filter MIX Mixer STA Soft Starter UT Autosampler FNK Fuel Tank MKV Motorised Knife Gate Valve STI Strainer AT backup Battery FRE Fire System MOC Moisture Controller SUR Surge Controller N Bir/Skip FSW Flow Switch MOI Moisture Controller SUR Surge Controller AN Bir/Skip FSW Flow Switch MOI Moisture Mointoring Probe SWB Switchboard CP Backflow Preventer GCN Generator MTC Motor Control TAP Sample tap or similar AM Camlock Coupling GNC Generator MTC Motor Control TAP Sample tap or similar AZ Chlorine Analyser GRC Grit Classifier NRV Non Return Valve TEE TEE AGA Cabinetry GRN Grit Removal PCM Pump Chamber TEM Temperature Switch DB Chlorine Doser GSY Generator Synchroniser PHA pH Analyser TEM Temperature Bwitch DB Chlorine Leak Detector HAM Hammer Resister PIC Pressure Indicating Controller TM TEM Temperature Indicator Control DB Chlorine Leak Detector HAM Hammer Resister PIC Pressure Indicating Controller TM Pressure Transducer DB Control Panel HST Hoist PMC Pump Control TRN Train Trainer DB Control Panel HST Hoist PMC Pump Control TRN Trainsformer DB Control Panel HST Hoist PMC Pump Control TRN Trainsformer DB Control Panel HST Hoist PMC Pump Control TRN Trainsformer DB Control Panel HST Hoist PMC Pump Control TRN Trainsformer DB Control Panel HST Hoist PMC Pump Control TRN Trainsformer DB Control Panel HST Hoist PMC Pump Control TRN Trainsformer DB Control Panel HST Hoist PMC Pump Control TRN Trainsformer DB Control Panel HST Hoist PMC Pump Control TRN Trainsformer DB Control Panel HST Hoist PMC Pump Control TRN Trainsformer DB Control Panel HST Hoist PMC Pump Control TRN Trainsformer DB Control Panel HST Hoist PMC Pump Control TRN Trainsformer DB Control Panel HST Hoist PMC Pump Control TRN Trainsformer DB Control Panel HST Hoist PMC Pump Control TRN Trainsformer	AIV	Air Bleed Valve	FIT	Pipes and Fittings	LTM	Level Transmitter	SLV	Ball, Gate, Sluice Valve
Analogue Output Module FLM Flowmeter MET Meter Meter SPN Solar Panel SPR Assembly Kit FLS Flushing Connection MHL Manhole/ Lampholes/ Cleaning E SPR Sprinklers SPR SPR SPR Sprinklers SPR SPR Sprinklers SPR Sprinklers SPR SPR SPR Sprinklers SPR	ALD	Acoustic Door	FLC	Flowmeter Chamber	LTR	Level Transducer	SOL	Solenoid Valve
Assembly Kit FLS Flushing Connection MHL Manhole/ Lampholes/ Cleaning E SPR Sprinklers MA Alarm System FLT Cartridge Filter MIX Mixer STA Soft Starter Autosampler FNK Fuel Tank MKV Motorised Knife Gate Valve STI Strainer AT backup Battery FRE Fire System MOC Moisture Controller SUR Surge Controller N Bin/Skip FSW Flow Switch MOI Moisture Monitoring Probe SWB Switchboard RP Backflow Preventer GCN Generator Connection MPR Motor Protection Relay SWR Software AB Cabinetry GEN Generator MTC Motor Control AM Camlock Coupling GNC Generator MTC Motor Control AM Camlock Coupling GNC Generator Controller MTR Motor TAR Tariff Metering AZ Chlorine Analyser GRC Grit Classifier NRV Non Return Valve TEE TEE ASK Chain Block GRS Grilles Cabling GRT Grit Removal PBT Pressure Break Tank TEL Telemetry BB Chlorine Doser GSY Generator Synchroniser PHA pH Analyser TEM Temperature Switch CD Chlorine Leak Detector HAM Hammer Resister PIC Pressure Indicating Controller TMA Temperature Alarm CS Chlorine Sensor HAR Harmonic Filter PIP Pipework TME TEM TEMPERATURE Alarm MMC Computer HOS Hose Reel/Hose PLC Programme Logic Controller TRA Pressure Transducer MMP Computer HOS Hose Reel/Hose PLC Programme Logic Controller TRA Pressure Transducer MMP Control Panel HST Hoist PMC Pump Control TRN Trailer MMC Conveyor HUM Humidifier PPR Pump Rails TUM Turbidity Meter DMC Compressor HUM Humidifier PPR Pump Rails TUM Turbidity Meter DMC Compressor HUM Humidifier PPR Pump Rails TUM Turbidity Meter DMC Compressor HUM Humidifier PPR Pump Rails TUM Turbidity Meter DMC Compressor HUM Humidifier PPR Pump Rails TUM Turbidity Meter THE THE TART Trailer PRESSURE Switch UPS UPS Street DMC Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Sequelating V UVS UV System	ANT	Antenna/ Arial	FLJ	Flexible Joint	MAC	Macerator	SPI	Speed Indicator
Alarm System FLT Cartridge Filter MIX Mixer STA Soft Starter SUT Autosampler FNK Fuel Tank MKV Motorised Knife Gate Valve STI Strainer STGA backup Battery FRE Fire System MOC Moisture Controller SUR Surge Su	AOM	Analogue Output Module	FLM	Flowmeter	MET	Meter	SPN	Solar Panel
Autosampler FNK Fuel Tank MKV Motorised Knife Gate Valve STI Strainer ATT backup Battery FRE Fire System MOC Moisture Controller SUR Surge Controller Bin/Skip FSW Flow Switch MOI Moisture Controller SWB Switchboard RPR Backflow Preventer GCN Generator Connection MPR Motor Protection Relay SWR Software AB Cabinetry GEN Generator MTC Motor Control TAP Sample tap or similar AM Camlock Coupling GNC Generator Controller MTR Motor AZ Chlorine Analyser GRC Grit Classifier NRV Non Return Valve TEE TEE AX Chain Block GRS Grilles PBT Pressure Break Tank TEL Telemetry BB Cabing GRT Grit Removal PCM Pump Chamber TEM TEM Temperature Switch BB CAbing GRT Grit Removal PCM Pump Chamber TIC Temperature Indicator Control CD Chlorine Leak Detector HAM Hammer Resister PIC Pressure Indicating Controller TMA Temperature Alarm CML Chamber Lid HMI Human Machine Interface PLC Programme Logic Controller TRA Pressure Transducer NP Computer HOS Hose Reel/Hose PLY Polymer Tank TRL Trailer NP Control Panel HST Hoist PMC Conveyor HUM Humidifier PPR Pump Damp TRR Telemetry Radio COMPESSOR HYD Fire Hydrant PRG Pressure Gauge TUR Telemetry Unit Turbidity Meter CTL Chlorine Veigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Readucing/Regulating V UVS UV System CTL Chlorine Weigh Pads ID SUrge Control Pressure Gauge TI HIT Hardware PNC Pressure Sensor VDD Variable Dosing Drive	ASB	Assembly Kit	FLS	Flushing Connection	MHL	Manhole/ Lampholes/ Cleaning E	SPR	Sprinklers
Surge Controller Backflow Preventer GCN Generator Connection MPR Motor Protection Relay SWR Switchboard SwR Swr Software And Notor Control Relay Whetering MTR Motor Control Relay Motor Control TAP And Fariff Metering MTR Motor Onne Relay Notor Control Pank FE FE FE FE FE FE FE FE FE F	ASM	Alarm System	FLT	Cartridge Filter	MIX	Mixer	STA	Soft Starter
Height Skip FSW Flow Switch MOI Moisture Monitoring Probe SWB Switchboard MPR Backflow Preventer GCN Generator Connection MPR Motor Protection Relay SWR Software ABB Cabinetry GEN Generator MTC Motor Control TAP Sample tap or similar AM Camlock Coupling GNC Generator MTR Motor TAP Sample tap or similar AM Camlock Coupling GNC Generator MTR Motor TAP TAR Tariff Metering AZ Chlorine Analyser GRC Grit Classifier NRV Non Return Valve TEE TEE TEE TEE ASK Chain Block GRS Grilles PBT Pressure Break Tank TEL Telemetry GRI GRI Grit Removal PCM Pump Chamber TEM Temperature Switch DB Chlorine Doser GSY Generator Synchroniser PHA pH Analyser TIC Temperature Indicator Control Chlorine Leak Detector HAM Hammer Resister PIC Pressure Indicating Controller TMA Temperature Alarm Chlorine Sensor HAR Harmonic Filter PIP Pipework TME Temperature Element MML Chamber Lid HMI Human Machine Interface PLC Programme Logic Controller TRA Pressure Transducer TRA Trailer Control Panel HST Hoist PMC Pump Control TRN Transformer TRA Trailer Trailer Control Panel HTR Heater PMP Pump TRR Telemetry Radio Conveyor HUM Humidifier PPR Pump Rails TUM Turbidity Meter TRA Trailer Chlorine Trolley Load IRR Irrigation System PRS Pressure Gauge TUR Trelemetry Unit Trelemetry Unit Chlorine Trolley Load IRR Irrigation System PRS Pressure Switch UPS UPS UPS Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVS UV System UPS UPS Chlorine Trolley Load ITH ITH Hardware PSN Pressure Sensor VDD Variable Dosing Drive	AUT	Autosampler	FNK	Fuel Tank	MKV	Motorised Knife Gate Valve	STI	Strainer
RP Backflow Preventer GCN Generator Connection MPR Motor Protection Relay SWR Software AB Cabinetry GEN Generator MTC Motor Control TAP Sample tap or similar AM Camlock Coupling GNC Generator Controller MTR Motor TAR Tariff Metering AZ Chlorine Analyser GRC Grit Classifier NRV Non Return Valve TEE TEE AZ Chlorine Analyser GRS Grilles PBT Pressure Break Tank TEL Telemetry AB Chaling GRT Grit Removal PCM Pump Chamber TEM Temperature Switch Cabling GRT Grit Removal PCM Pump Chamber TEM Temperature Switch CB Chlorine Doser GSY Generator Synchroniser PHA pH Analyser TIC Temperature Indicator Control CD Chlorine Leak Detector HAM Hammer Resister PIC Pressure Indicating Controller TMA Temperature Alarm CS Chlorine Sensor HAR Harmonic Filter PIP Pipework TME Temperature Element ML Chamber Lid HMI Human Machine Interface PLC Programme Logic Controller TRA Pressure Transducer MP Computer HOS Hose Reel/Hose PLY Polymer Tank TRL Trailer NP Control Panel HST Hoist PMC Pump Control TRN Transformer NT Centrifuge HTR Heater PMP Pump TRR Telemetry Radio NV Conveyor HUM Humidifier PPR Pump Rails TUM Turbidity Meter CMP Compressor HYD Fire Hydrant PRG Pressure Gauge TUR Telemetry Unit Chlorine Trolley Load IRR Irrigation System PRS Pressure Geducing/Regulating V UVS UV System NP Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVS VDD Variable Dosing Drive	BAT	backup Battery	FRE	Fire System	MOC	Moisture Controller	SUR	Surge Controller
ABB Cabinetry GEN Generator MTC Motor Control TAP Sample tap or similar AM Camlock Coupling GNC Generator Controller MTR Motor TAR Tariff Metering AZ Chlorine Analyser GRC Grit Classifier NRV Non Return Valve TEE TEE TEE TEE TEE TEE AX Chain Block GRS Grilles PBT Pressure Break Tank TEL Telemetry GRC Grit Removal PCM Pump Chamber TEM Temperature Switch TEL Telemetry GRB Chlorine Doser GSY Generator Synchroniser PHA pH Analyser TIC Temperature Switch TEM Temperature Alarm TEM Temperature Blement TEM Temperature Alarm TEM TEMPERATURE	BIN	Bin/Skip	FSW	Flow Switch	MOI	Moisture Monitoring Probe	SWB	Switchboard
AMM Camlock Coupling GNC Generator Controller MTR Motor TAR Tariff Metering AZ Chlorine Analyser GRC Grit Classifier NRV Non Return Valve TEE TEE 3K Chain Block GRS Grilles PBT Pressure Break Tank TEL Telemetry 3L Cabling GRT Grit Removal PCM Pump Chamber TEM Temperature Switch 3DB Chlorine Doser GSY Generator Synchroniser PHA pH Analyser TIC Temperature Indicator Control 3DB Chlorine Leak Detector HAM Hammer Resister PIC Pressure Indicating Controller TMA Temperature Alarm 3DB Chlorine Sensor HAR Harmonic Filter PIP Pipework TME Temperature Element 3DB Chlorine Sensor HAR Harmonic Filter PIP Pipework TME Temperature Element 3DB Chlorine Computer HOS Hose Reel/Hose PLY Polymer Tank TRL Trailer 3DB Control Panel HST Hoist PMC Pump Control TRN Transformer 3DB Conveyor HUM Humidifier PPR Pump TRR Telemetry Radio 3DB Conveyor HUM Humidifier PPR Pump Rails TUM Turbidity Meter 3DB Compressor HYD Fire Hydrant PRS Pressure Gauge TUR Telemetry Unit 3DB Chlorine Trolley Load IRR Irrigation System PRS Pressure Reducing/Regulating V UVS UV System 3DB Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVD Variable Dosing Drive	ВКР	Backflow Preventer	GCN	Generator Connection	MPR	Motor Protection Relay	SWR	Software
Chlorine Analyser GRC Grit Classifier NRV Non Return Valve TEE TEE TEE TEE TEE TEE TEE TEE	CAB	Cabinetry	GEN	Generator	MTC	Motor Control	TAP	Sample tap or similar
Chain Block GRS Grilles PBT Pressure Break Tank TEL Telemetry Cabling GRT Grit Removal PCM Pump Chamber TEM Temperature Switch Cabling GRT Grit Removal PCM Pump Chamber TEM Temperature Switch CBB Chlorine Doser GSY Generator Synchroniser PHA pH Analyser TIC Temperature Indicator Control CD Chlorine Leak Detector HAM Hammer Resister PIC Pressure Indicating Controller TMA Temperature Alarm CS Chlorine Sensor HAR Harmonic Filter PIP Pipework TME Temperature Element CML Chamber Lid HMI Human Machine Interface PLC Programme Logic Controller TRA Pressure Transducer CMP Computer HOS Hose Reel/Hose PLY Polymer Tank TRL Trailer CONTROL Control Panel HST Hoist PMC Pump Control TRN Transformer CONTROL Conveyor HUM Humidifier PMP Pump TRR Telemetry Radio CONTROL Conveyor HUM Humidifier PPR Pump Rails TUM Turbidity Meter COMM Compressor HYD Fire Hydrant PRG Pressure Gauge TUR Telemetry Unit CHolorine Trolley Load IRR Irrigation System PRS Pressure Switch UPS UPS CMP Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVS UV System CT Decanter ITH IT Hardware PSN Pressure Sensor VDD Variable Dosing Drive	CAM	Camlock Coupling	GNC	Generator Controller	MTR	Motor	TAR	Tariff Metering
Cabling GRT Grit Removal PCM Pump Chamber TEM Temperature Switch CB Chlorine Doser GSY Generator Synchroniser PHA pH Analyser TIC Temperature Indicator Control CD Chlorine Leak Detector HAM Hammer Resister PIC Pressure Indicating Controller TMA Temperature Alarm CS Chlorine Sensor HAR Harmonic Filter PIP Pipework TME Temperature Element MIL Chamber Lid HMI Human Machine Interface PLC Programme Logic Controller TRA Pressure Transducer MIP Computer HOS Hose Reel/Hose PLY Polymer Tank TRL Trailer MIP Control Panel HST Hoist PMC Pump Control TRN Transformer MIT Centrifuge HTR Heater PMP Pump TRR Telemetry Radio MIV Conveyor HUM Humidifier PPR Pump Rails TUM Turbidity Meter MIP Compressor HYD Fire Hydrant PRG Pressure Gauge TUR Telemetry Unit MIP Chlorine Trolley Load IRR Irrigation System PRS Pressure Reducing/Regulating V UVS UV System MIP Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Sensor VDD Variable Dosing Drive	CAZ	Chlorine Analyser	GRC	Grit Classifier	NRV	Non Return Valve	TEE	TEE
Chlorine Doser GSY Generator Synchroniser PHA pH Analyser TIC Temperature Indicator Control Chlorine Leak Detector HAM Hammer Resister PIC Pressure Indicating Controller TMA Temperature Alarm TML Chlorine Sensor HAR Harmonic Filter PIP Pipework TME Temperature Element TML Chamber Lid HMI Human Machine Interface PLC Programme Logic Controller TRA Pressure Transducer TRANSDU	СВК	Chain Block	GRS	Grilles	PBT	Pressure Break Tank	TEL	Telemetry
Chlorine Leak Detector HAM Hammer Resister PIC Pressure Indicating Controller TMA Temperature Alarm Chlorine Sensor HAR Harmonic Filter PIP Pipework TME Temperature Element Chamber Lid HMI Human Machine Interface PLC Programme Logic Controller TRA Pressure Transducer Computer HOS Hose Reel/Hose PLY Polymer Tank TRL Trailer Control Panel HST Hoist PMP Pump Control TRN Transformer Centrifuge HTR Heater PMP Pump TRR TRR Telemetry Radio Conveyor HUM Humidifier PPR Pump Rails TUM Turbidity Meter CMM Compressor HYD Fire Hydrant PRG Pressure Gauge TUR Telemetry Unit Chlorine Trolley Load IRR Irrigation System PRS Pressure Switch UPS UPS CMP Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVS UV System CT Decanter ITH IT Hardware PSN Pressure Sensor VDD Variable Dosing Drive	CBL	Cabling	GRT	Grit Removal	PCM	Pump Chamber	TEM	Temperature Switch
Chlorine Sensor HAR Harmonic Filter PIP Pipework TME Temperature Element ML Chamber Lid HMI Human Machine Interface PLC Programme Logic Controller TRA Pressure Transducer MP Computer HOS Hose Reel/Hose PLY Polymer Tank TRL Trailer NP Control Panel HST Hoist PMC Pump Control TRN Transformer NT Centrifuge HTR Heater PMP Pump TRR Telemetry Radio NV Conveyor HUM Humidifier PPR Pump Rails TUM Turbidity Meter DM Compressor HYD Fire Hydrant PRG Pressure Gauge TUR Telemetry Unit TL Chlorine Trolley Load IRR Irrigation System PRS Pressure Switch UPS UPS NP Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVS UV System CT Decanter ITH IT Hardware PSN Pressure Sensor VDD Variable Dosing Drive	CDB	Chlorine Doser	GSY	Generator Synchroniser	PHA	pH Analyser	TIC	Temperature Indicator Control
ML Chamber Lid HMI Human Machine Interface PLC Programme Logic Controller TRA Pressure Transducer MP Computer HOS Hose Reel/Hose PLY Polymer Tank TRL Trailer NP Control Panel HST Hoist PMC Pump Control TRN Transformer NT Centrifuge HTR Heater PMP Pump TRR Telemetry Radio NV Conveyor HUM Humidifier PPR Pump Rails TUM Turbidity Meter DM Compressor HYD Fire Hydrant PRG Pressure Gauge TUR Telemetry Unit NP Chlorine Trolley Load IRR Irrigation System PRS Pressure Switch UPS UPS NP Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVS UV System NP Decanter ITH IT Hardware PSN Pressure Sensor VDD Variable Dosing Drive	CLD	Chlorine Leak Detector	HAM	Hammer Resister	PIC	Pressure Indicating Controller	TMA	Temperature Alarm
MP Computer HOS Hose Reel/Hose PLY Polymer Tank TRL Trailer NP Control Panel HST Hoist PMC Pump Control TRN Transformer NT Centrifuge HTR Heater PMP Pump TRR Telemetry Radio NV Conveyor HUM Humidifier PPR Pump Rails TUM Turbidity Meter DM Compressor HYD Fire Hydrant PRG Pressure Gauge TUR Telemetry Unit TL Chlorine Trolley Load IRR Irrigation System PRS Pressure Switch UPS UPS NP Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVS UV System CT Decanter ITH IT Hardware PSN Pressure Sensor VDD Variable Dosing Drive	CLS	Chlorine Sensor	HAR	Harmonic Filter	PIP	Pipework	TME	Temperature Element
NP Control Panel HST Hoist PMC Pump Control TRN Transformer Centrifuge HTR Heater PMP Pump TRR Telemetry Radio Conveyor HUM Humidifier PPR Pump Rails TUM Turbidity Meter CM Compressor HYD Fire Hydrant PRG Pressure Gauge TUR Telemetry Unit CL Chlorine Trolley Load IRR Irrigation System PRS Pressure Switch UPS UPS WP Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVS UV System CT Decanter ITH IT Hardware PSN Pressure Sensor VDD Variable Dosing Drive	CML	Chamber Lid	HMI	Human Machine Interface	PLC	Programme Logic Controller	TRA	Pressure Transducer
Centrifuge HTR Heater PMP Pump TRR Telemetry Radio NV Conveyor HUM Humidifier PPR Pump Rails TUM Turbidity Meter DM Compressor HYD Fire Hydrant PRG Pressure Gauge TUR Telemetry Unit CL Chlorine Trolley Load IRR Irrigation System PRS Pressure Switch UPS UPS WP Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVS UV System CT Decanter ITH IT Hardware PSN Pressure Sensor VDD Variable Dosing Drive	CMP	Computer	HOS	Hose Reel/Hose	PLY	Polymer Tank	TRL	Trailer
Conveyor HUM Humidifier PPR Pump Rails TUM Turbidity Meter Compressor HYD Fire Hydrant PRG Pressure Gauge TUR Telemetry Unit Chlorine Trolley Load IRR Irrigation System PRS Pressure Switch UPS UPS WP Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVS UV System CT Decanter ITH IT Hardware PSN Pressure Sensor VDD Variable Dosing Drive	CNP	Control Panel	HST	Hoist	PMC	Pump Control	TRN	Transformer
Compressor HYD Fire Hydrant PRG Pressure Gauge TUR Telemetry Unit Chlorine Trolley Load IRR Irrigation System PRS Pressure Switch UPS UPS WP Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVS UV System CT Decanter ITH IT Hardware PSN Pressure Sensor VDD Variable Dosing Drive	CNT	Centrifuge	HTR	Heater	PMP	Pump	TRR	Telemetry Radio
Chlorine Trolley Load IRR Irrigation System PRS Pressure Switch UPS UPS WP Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVS UV System CT Decanter ITH IT Hardware PSN Pressure Sensor VDD Variable Dosing Drive	CNV	Conveyor	HUM	Humidifier	PPR	Pump Rails	TUM	Turbidity Meter
WP Chlorine Weigh Pads ISO Isolating valve Gate & Sluice PRV Pressure Reducing/Regulating V UVS UV System CT Decanter ITH IT Hardware PSN Pressure Sensor VDD Variable Dosing Drive	СОМ	Compressor	HYD	Fire Hydrant	PRG	Pressure Gauge	TUR	Telemetry Unit
CT Decanter ITH IT Hardware PSN Pressure Sensor VDD Variable Dosing Drive	CTL	Chlorine Trolley Load	IRR	Irrigation System	PRS	Pressure Switch	UPS	UPS
	CWP	Chlorine Weigh Pads	ISO	Isolating valve Gate & Sluice	PRV	Pressure Reducing/Regulating V	UVS	UV System
F Diffuser LAH High Level Alarm PWS Pressure Washer VIB Vibration Switch	DCT	Decanter	ITH	IT Hardware	PSN	Pressure Sensor	VDD	Variable Dosing Drive
	DIF	Diffuser	LAH	High Level Alarm	PWS	Pressure Washer	VIB	Vibration Switch

Equipme	nt	Equipme	nt	Equipme	nt	Equipme	nt
Туре	Description	Туре	Description	Туре	Description	Туре	Description
DNT	Decant Tank	LAL	Low Level Alarm	RAI	Rain Gauge	VNT	Ventilation
DOM	DO Meter	LCU	Level Control	REV	Reservoir	VSD	Variable Speed Drive
DVT	Dose/Volume Timer	LEI	Level Indicator	ROT	Rotameter	WBR	Water Blaster
EDD	Electrical Dosing Drive	LFB	Lifting Beam	SAL	Satellite Dish	WER	Weir/ Slide Gate
ELE	Electrical Controls	LFS	Lime Hooper & Feeder	SAM	Sampler	WWL	Wet Well Lid
ELS	Electrical Services	LMT	Limit Switch	SAT	Surge Anticipating Valve		
EMS	Emergency Shower	LOV	Discharge Louvre	SBT	SBR Tanks		