Engineering Standard

X-PRO-STD-006
Asset and Equipment Identifier Procedure

Document number: PRO-02190

Ver No.	Description	Document Owner		Document Approver		
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8	Amended Version - Major revision, change in scope, structure, and application	Asset Information & Systems Coordinator	Refer to supporting Info in REX	General Manager - Asset Services	Refer to supporting Info in REX	31/03/2026

Contents

1. Purpose

The purpose of this Procedure is to define the requirements for the consistent numbering and identification of equipment and maintainable items across all assets, in alignment with the Asset Information Management Framework (AIMF) (FRA-00011). It requires that each maintainable item and piece of equipment is allocated a unique identifier and labelled in accordance with approved conventions, including ISA-5.1:2022.

2. Scope

This Procedure applies to all Workers unless otherwise stated. This Procedure applies to all assets and data within the scope of FRA-00011 Asset Information Management Framework (AIMF).

3. Overview

The Asset and Equipment Identifier Standard establish Seqwater's requirements for the consistent identification and labelling of equipment and maintainable items across all assets. This standard is a core component of Seqwater's Asset Information Management Framework (AIMF), which provides the overarching structure for managing asset data, information, and knowledge throughout the asset lifecycle. The Identifier Standard ensures that every maintainable item and piece of equipment is allocated a unique identifier, supporting traceability, compliance, and operational efficiency. It aligns with the Asset Information Governance Policy (AIGP), which sets out the principles and accountabilities for asset information governance, and is designed to meet the requirements of the Strategic Asset Management Plan (PLN-00264) and relevant international standards, including ISO 55000, ISO 19650, and ISA-5.1:2022.

The Procedure details the conventions for numbering and naming assets, including the use of structured codes that reflect asset hierarchy, location, and function. It mandates that all codes, attribute domains, and naming conventions remain consistent with the Asset Data Dictionary, which is the authoritative source for attribute values. The document also outlines roles and responsibilities for the allocation and management of equipment numbers, ensuring that changes are coordinated and communicated across the organisation. By embedding these requirements within a controlled document suite, Seqwater supports data quality, system integration, and continuous improvement in asset information management. This approach enables informed decision-making, regulatory compliance, and the delivery of reliable water services to the community.

3.1. Seqwater Equipment Numbering Schema (SENS)

Seqwater Equipment Numbering Schema (SENS) is a concatenation of multiple fields as outlined in this Standard/Specification.

The convention previously presented in X-PRO-STD-006 (deprecated) is named Seqwater Equipment Numbering Schema 1 (SENS1). SENS1 will be in use for all Seqwater's brownfield sites unless replaced or re-tagged based on Seqwater Equipment Numbering Schema 2 (SENS2).

SENS2 will by default apply to all Seqwater's greenfield sites. In circumstances where brownfield sites are upgraded, if the change is related to the Process Cell or above (Refer Asset Hierarchy in Figure 1), SENS2 will apply.

SENS2 is outlined in Section 4.

SENS1 is outlined in Section 5.

All new equipment and all existing equipment undergoing refurbishment or modification shall be allocated an equipment number as per the chosen SENS.

As equipment numbers act as a common identifier, SENS1 equipment numbers shall only be replaced with SENS2 equipment numbers on a 'change it anywhere, change it everywhere' basis. This requires the equipment number reallocation to form part of a resourced project, through Management of Change (Technical) Procedure (PRO-02234) that includes updating relevant:

1. P&ID, PFD, Electrical and General Arrangement (GA) Drawings;
2. PLC/SCADA tag naming, objects, alarms, interlocks and data historian;
3. Isolation Procedures and Operation Manuals;
4. I/O Lists, Cause and Effect Matrices, and IP Registers;
5. Functional Descriptions A and Functional Descriptions B; AND
6. Control Systems Network Diagrams.

3.2. Asset Hierarchy vs Location Levels

As presented in FRA-00011 Asset Information Management Framework, the Seqwater's Asset Hierarchy can be mapped against the Location Levels as below.

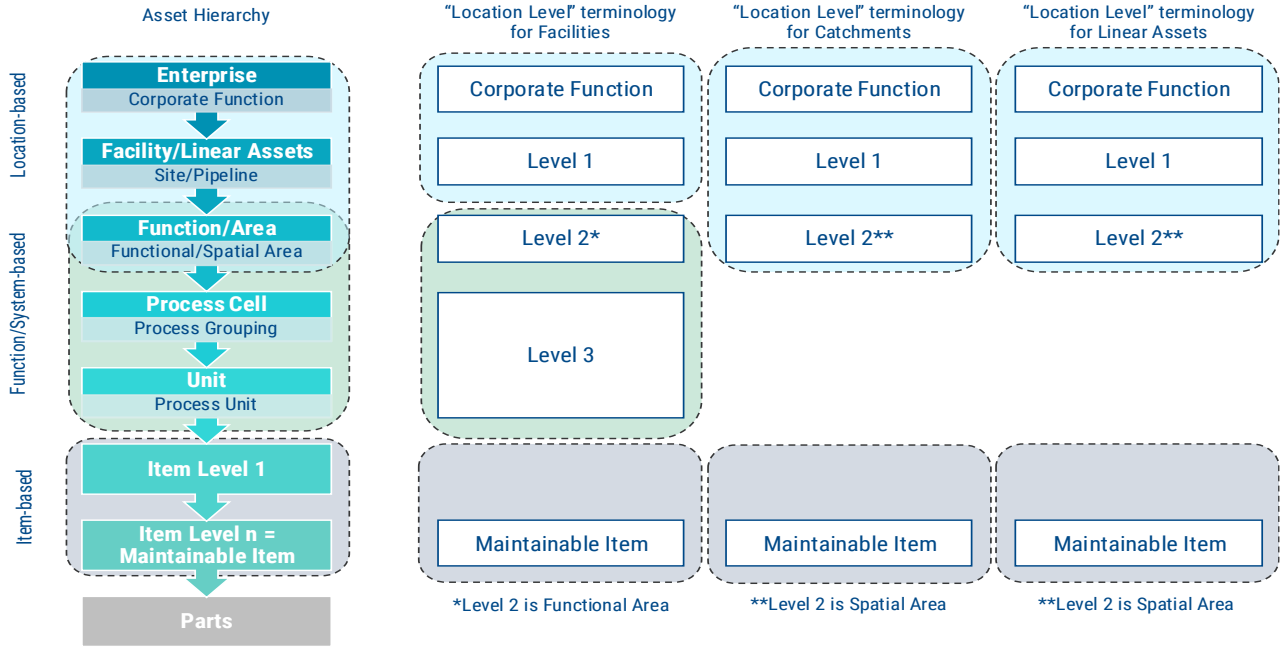

Figure 1 Asset Hierarchy vs Location Levels (Reference: AIMF Figure 6)

This standard will illustrate the naming and numbering conventions that apply to each of these hierarchical levels. Relevant code lists can be found in the respective Appendices.

Corporate Function does not form part of the SENS2 or SENS1 code structure. It is solely a metadata attribute applied at the Maintainable Item level.

3.3. Items vs Maintainable Items vs Equipment

As presented in the Asset Information Management Framework FRA-00011 (AIMF), Item/s are ready for operation, deployment or use and meets all functional requirements. Items can be broken down until they reach the Lowest Maintainable Level (LML). The items that belong to the LML are called Maintainable Items.

Maintainable Items can be defined as an element that:

- Is commonly maintained (repaired/restored) in its entirety;
- Cannot normally be dissembled or repaired or is of such a design that disassembly or repair is impractical or economically not viable, therefore replaced; or
- Has individual statutory registration, reporting or compliance requirements.

Note: To understand what LML is, please refer to the FRA-00011 Asset Information Management Framework. The term "maintainable item" now supersedes the legacy term "operating asset".

Equipment is the set of elements (including control, piping and monitoring devices) that are required to be represented in P&IDs, PFDs and Electrical Drawings.

This limits equipment to elements required to represent process, power and its control, which is narrower than the Strategic Asset Management Plan (PLN-00264) asset scope.

Equipment granularity responds primarily to ISA5.1 Instrumentation Symbols and Identification not Asset Class Plans. Therefore, Equipment may or may not be at the LML. Equipment may sometimes include items that are at the LML, or sometimes they may belong to Parts as per the asset hierarchy.

3.4. Equipment Numbering vs Maintainable Item Numbering

Equipment is numbered as per the guidelines provided in Section 4 – SENS2 and Section 5 – SENS1.

Each piece of equipment that belongs to the Lowest Maintainable Level (LML) is called a Maintainable Item.

Maintainable Item number will have a prefix 'A' in front of the equipment number, where available, for easy identification. In addition to this, the Maintainable Item will include a stainless-steel plate attached to them with the QR Code, that is called the 'Maintainable Item Label'. More information on specifications and placement of this label can be found in Section 8.**Error! Reference source not found.**

Corporate Function (i.e. Bulk Water, Irrigation or Recreation) does not apply to equipment records unless the equipment is also defined as the Maintainable Item. The Corporate Function attribute is applied only at the Maintainable Item level and may differ from the Facility where co-located items support other predominant purposes (e.g., recreation infrastructure at a bulk water site, irrigation metering on bulk water assets).

Note: The term "maintainable item label" now supersedes the legacy term "operating asset label".

More information on this will be provided in Section 0.

3.5. Equipment Descriptions

Equipment descriptions are allocated and nominated during the drafting of P&ID, PFD and Electrical drawings in accordance with Engineering Standard X-PRO-STD-014 Drawings Management Procedure (PRO-02253) and Engineering Standard B-PRO-STD-003 Piping and Instrumentation Diagram Drafting Procedure (PRO-02320).

Equipment descriptions are developed and assigned by the responsible Engineer, Planner, Project Manager, or Seqwater Drawings Requestor as part of drawing preparation.

Where full equipment description lengths exceed 38 characters, a short description shall be nominated. The short description shall have a maximum length of 38 characters to ensure suitability for use on labels and drawings.

To ensure clear, unambiguous, and consistently applied descriptions across Seqwater systems and documentation, the short description shall use defined codes sourced from the appendices of this Procedure. All codes used in short descriptions shall be capitalised. These codes may be combined, as required, to convey meaning, for codes representing:

- Facility/Linear Asset,
- Catchments (Level 1/2),
- General Equipment Types,
- Instrumentation Equipment Types,
- Valve Equipment Types,
- Piping Materials,
- Nominal Pipe Diameter, and/or
- Fluids.

Short descriptions shall not introduce new or ad-hoc abbreviations nor acronyms beyond those defined in this Procedure. Where discrepancies arise, this Procedure remains the authoritative source for codes, abbreviations, and attribute values.

Both full and short descriptions shall use standard ASCII/Latin characters only.

4. Seqwater Equipment Numbering Schema 2 (SENS2)

Equipment naming and Numbering convention as per SENS2 will depend on the location configuration under consideration: (i) Facilities, (ii) Linear Assets, and (iii) Catchments. Below sections provide the convention that is used for each of the location configurations.

SENS2 equipment numbers can be readily identified by the underscore character (_) as the primary delimiter between character blocks. The underscore is the Unicode character "Low Line" (U+005F).

4.1. For Facilities

Equipment and instrumentation that belong to Facilities shall be numbered as outlined below.

AAA_SSSS_EEENNN

Where:

AAA = Location Level 1: Facility/Linear Asset

SSSS = Location Level 2/3: Area and Process Cell

EEE = Equipment Identifier

NNN = Sequential number

This can be presented in parallel to the asset hierarchy as outlined below in Figure 2.

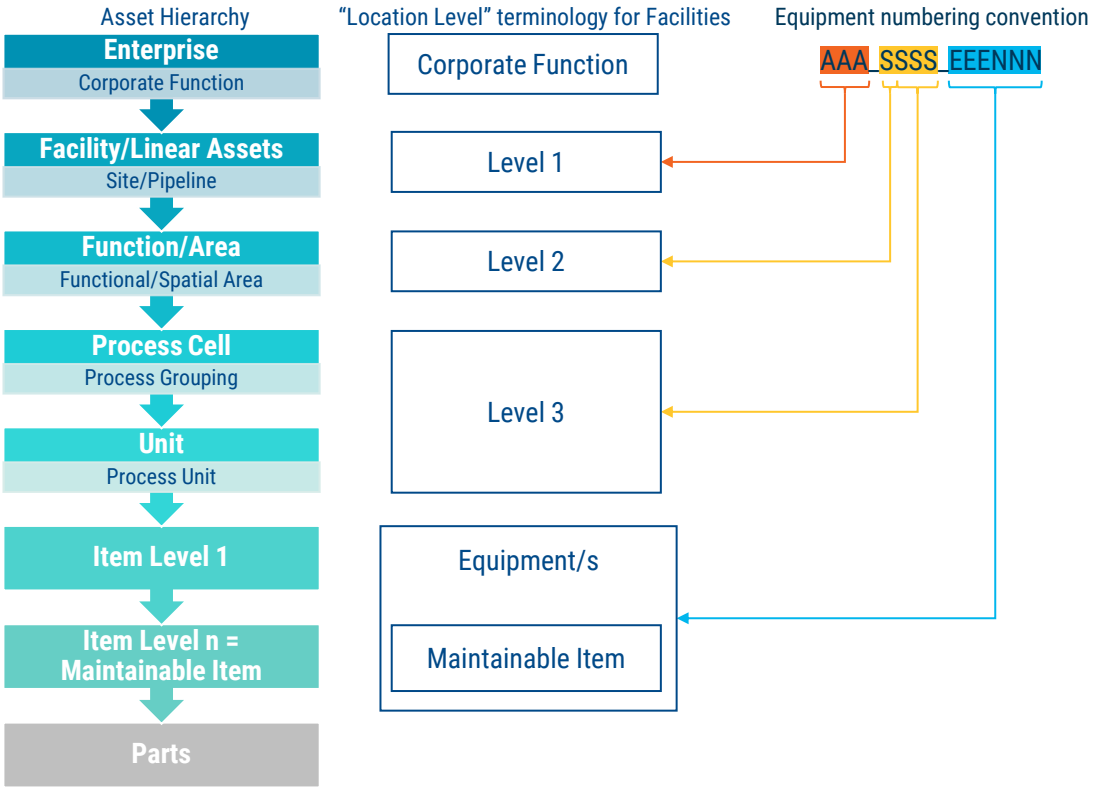

Figure 2 Equipment Naming Convention for Facilities

Example in Table 1 below:

Table 1 Equipment Numbering Examples for Facilities

#	Equipment Type	Equipment Number	Equipment Name
1	Valve	TAR_3020_BF001	Albert River WTP_Filtration Biologically Activated Carbon (BAC) Filter System (PLN-00427) Butterfly Valve 001
2	Pump	TAR_3020_PMP001	Albert River WTP_Filtration Biologically Activated Carbon (BAC) Filter System (PLN-00427) Pump 001
3	HVAC	TAR_8100_VPN001	Albert River WTP_Site Services HVAC (PLN-00395)_Ventilation Panel or System 001
4	Disinfection	TAR_4020_VSL001	Albert River WTP_Disinfection Chlorine Contact_ Pressure Vessel - Any pressurised tank or vessel_001

Associated Codes for these numbering convention blocks can be found in Section 6, and their relevant Appendices.

4.2. For Catchments

Equipment and instrumentation that belong to Catchments shall be numbered as outlined below.

AAA_SSS_EEENNN

Where:

AAA = Location Level 1: Facility/Linear Asset (Catchment Code)

SSS = Location Level 2: Area (Sub-catchment Code)

EEE = Equipment Identifier

NNN = Sequential number

Figure 3 presents how this naming convention can be applied to equipment belonging to Catchments and Sub-Catchments.

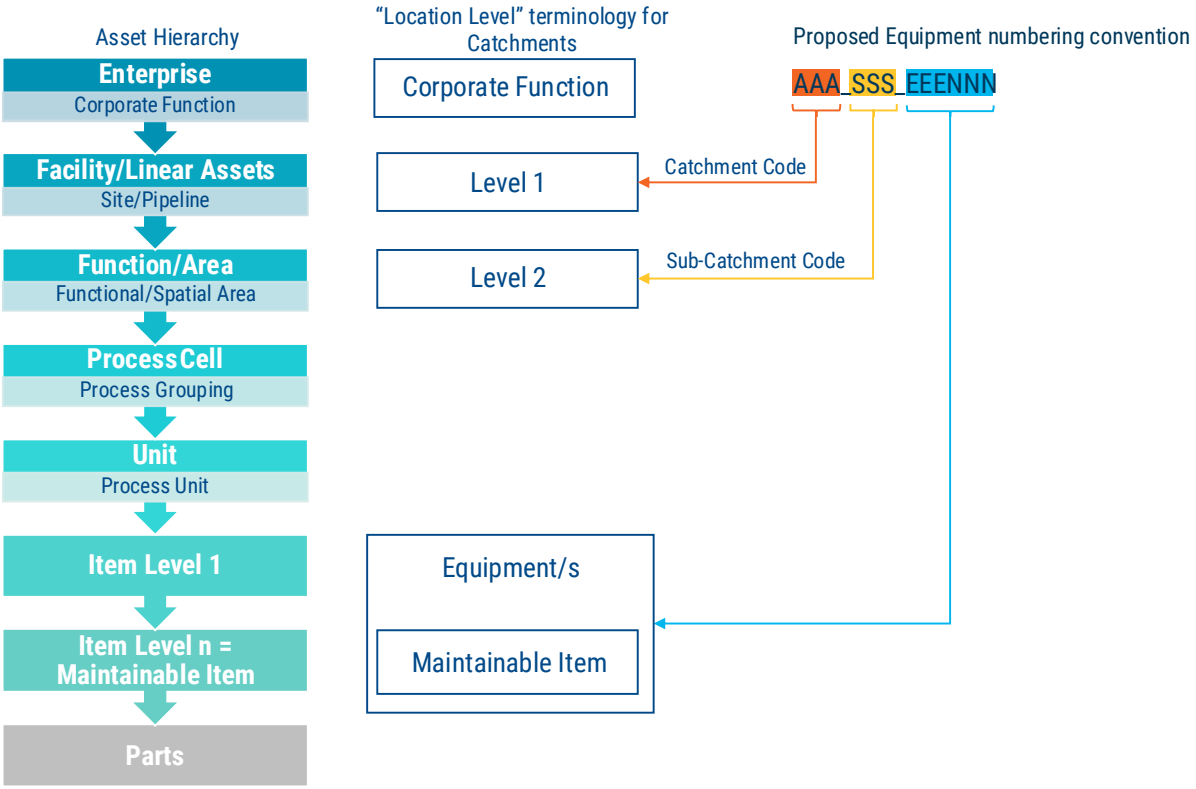

Figure 3 Equipment Naming Convention for Catchments

Example in Table 2 below:

Table 2 Equipment Numbering Examples for Catchments

#	Equipment Type	Equipment Number	Equipment Name
1	Water Tank	CBP_CBC_TNK_001	Baroon Pocket_ Bridge Creek Subcatchment_ Tank, Well or Vessel Non-pressurised_001

4.3. For Linear Assets

4.3.1. Piping (Line designation)

Piping shall be numbered as outlined below. The application of AAA and SSSS is similar to the application for equipment in facilities with relevance to associated codes provided in the appendices.

In addition to what's required for equipment, piping requires information related to the material code, nominal pipe diameter and the fluid code for easy identification and understanding of the functional requirements surrounding the piping under consideration.

AAA_SSSS_MMM_XXXX_FFF_NNN

Where:

AAA = Location Level 1: Facility/Linear Asset

SSSS = Location Level 2: Area

MMM = Material Code

XXXX = Nominal Pipe Diameter

FFF = Fluid Code

NNN = Sequential number

Figure 4 below presents how this naming convention can be applied to equipment belonging to Linear Assets.

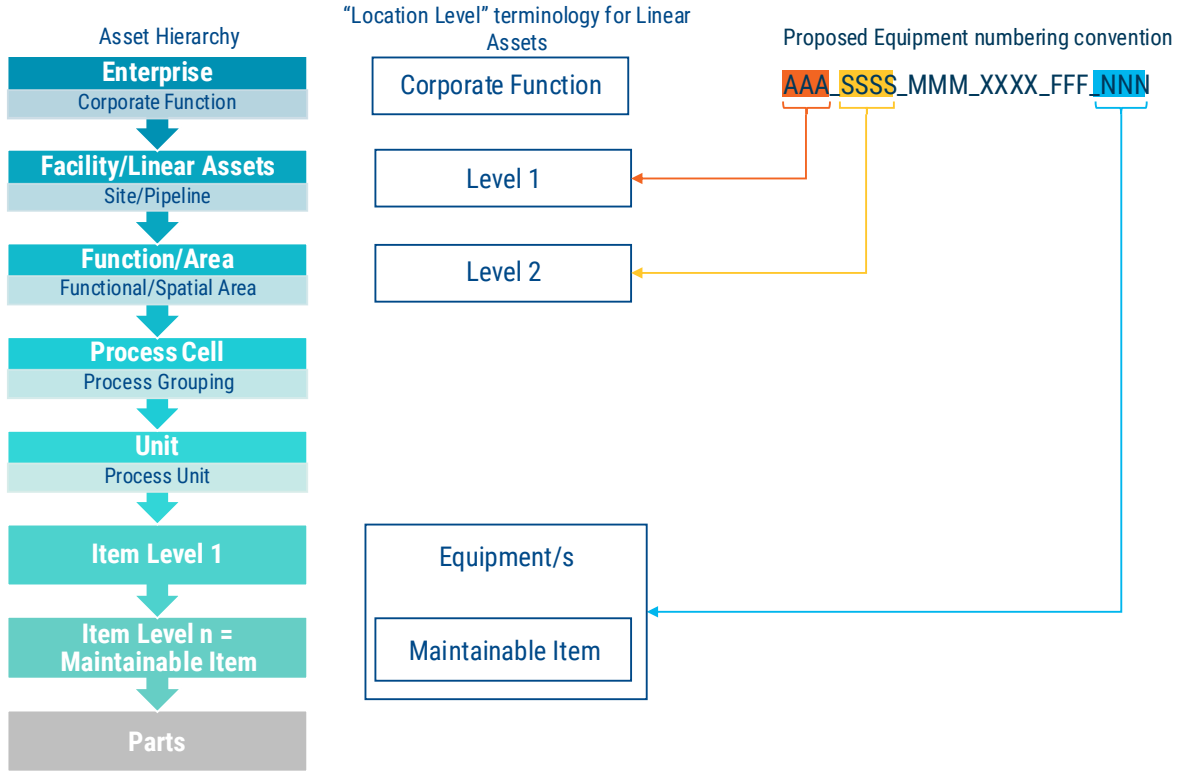

Figure 4 Equipment Naming Convention for Piping

Example in Table 3 below:

Table 3 Equipment Numbering Examples for Piping

#	Equipment Type	Equipment Number	Equipment Name
1	Pipe	TAR_3020_DICL_0600_BFW_001	Albert River WTP_Biologically Activated Carbon (BAC) Filter System (PLN-00427)_Ductile Iron Cement Lined_600mm_ BAC Filtered Water_001

Notes:

A process pipeline number should typically be assigned to the whole pipeline connecting two process units, unless:

- the pipe material or size changes
- the product, pressure or temperature changes
- the pipe meets a junction with another pipe.

5. Seqwater Equipment Numbering Schema 1 (SENS1)

SENS1 equipment numbers can be readily identified by the hyphen character (-) as the primary delimiter between character blocks. The hyphen used is the Unicode character “Hyphen-Minus” (U+002D).

For automated parsing of data, it is important that the delimiter character is not replaced by any homoglyph.

Table 4: SENS1 delimiters

Character	Name	Unicode	Status
-	HYPHEN-MINUS	002D	Correct
˗	MODIFIER LETTER MINUS SIGN	02D7	Incorrect
‐	HYPHEN	2010	Incorrect
‑	NON-BREAKING HYPHEN	2011	Incorrect
‒	FIGURE DASH	2012	Incorrect
–	EN DASH	2013	Incorrect
⁃	HYPHEN BULLET	2043	Incorrect
−	MINUS SIGN	2212	Incorrect
—	EM DASH	2014	Incorrect
۔	ARABIC FULL STOP	06D4	Incorrect

5.1. Equipment and Instrumentation Numbering

Equipment and instrumentation shall be numbered as outlined below.

AAA-D-SEEENNN

Where:

AAA = Area / Facility Code

D = Equipment Designation

S = Sub-Area Number

EEE = Equipment Type

NNN = Unique Number

Example:

TEB-G-3TNK100 (East Bank WTP – Civil, Structural and Architectural – Chemical Dosing Systems (sub-area 3) Tank 100

RAS-I-6AIT900 (Aspley Reservoir – Instrumentation – Treatment Processes (sub-area 6) Analysis Indication Transmitter 900

5.2. Pipe Numbering (line designation)

Pipes shall be numbered in accordance with the following:

AAA-S-MMM-XXX-FFF-NNN

Where:

AAA = Area / Facility Code

S = Sub-Area Number

MMM = Material Code

XXX = Nominal Pipe Diameter

FFF = Fluid Code

NNN = Unique Number

Notes:

A process pipeline number should typically be assigned to the whole pipeline connecting two process units, unless:

- the pipe material or size changes
- the product, pressure or temperature changes
- the pipe meets a junction with another pipe.

There are no spaces between the codes and the separating hyphens.

AAA, S and NNN serve the same purpose as for equipment and instrument numbering.

A network supply pipeline number should typically be assigned to a segment where the segment starts at

- the pipe material or size changes
- the product, pressure or temperature changes
- the pipe meets a junction with another pipe (at the discharge point)
- up to the next valve (at the inlet point).

Example:

SEB-1-CI-1650-RAW-066 East Bank Raw Water Pump Station – Source Water Storage, Inlet Works and Pre-Treatment (Sub- area 1) – Cast Iron - 1650 diameter – Raw Water - sequence number 066

937-6-MSCL-1050-TRW-001 Pipeline Potable Ipswich Eastern Pipeline (S12) – Treated Water Storage, Outlet Works and Distribution (sub-area 6) - Mild Steel Cement Lined – 1050 diameter - Treated Water – sequence number 001

6. Associated Codes

This section will illustrate all the associated codes with both SENS1 and SENS2. All codes, attribute domains, and numbering conventions in this standard must be consistent with the Asset Data Dictionary. Where discrepancies arise, the Asset Data Dictionary is the authoritative source for all codes, attribute domains, and numbering conventions.

This standard along with its Appendices are to be updated in alignment with the sequence noted in the Asset Information Governance Policy.

6.1. AAA - Facility/Linear Asset (Location Level 1)

This is represented by a unique three-character code, in which the first character refers to the purpose of the site (Table 5). The second two characters are to be chosen to best reflect the name of the site (i.e. “NP” for North Pine or “AS” for Aspley).

AAA applies to both SENS1 and SENS2.

For rules in determining this level in the hierarchy, refer to FRA-00011 Asset Information Management Framework.

Table 5 Location Types

First Letter	Location Purpose	Location Configuration
A	Administration/Office Building	Facility
C	Catchment	Catchment
D	Dam	Facility
E	Treatment Plant Wastewater	Facility
G	Gauging Station	Facility
H	Hydroelectric Facility	Facility
I	Irrigation Scheme	Linear Assets
L	Off Stream Storage	Facility
M	Mobile Assets	Facility
N	Water Quality Dosing/Monitoring Facility	Facility
P	Scheme Treated/Raw Water	Linear Assets
Q	Water Storage Scheme	Facility
R	Reservoir Treated/Raw Water	Facility
S	Pump Station	Facility
T	Water Treatment Plant	Facility
V	Virtual Facility	Facility
Y	Other sites (not defined above)	Facility
Z	Offline Data Storage	Facility

Code lists associated with Level 1 for Facilities are presented in Appendix A.

Code lists associated with Level 1 for Catchments are presented in Appendix C along with their associated Sub-catchments (Level 2).

6.2. SSSS - Area & Process Cell (Location Level 2 & 3) for Facilities

Table 6 represents the unique digits relevant to Location Level 2 for a Facility. For rules behind determining hierarchical levels, refer to the AIMF.

SSSS applies only to SENS2.

Table 6 Unique identifiers for Level 2 Location for Facility

Unique Digit	Level 2 Location (i.e., Functional Area)
1	Raw Water
2	Sedimentation
3	Filtration
4	Disinfection
5	Chemical
6	Water treatment residuals
7	Treated Water
8	Site Services

The Code lists relevant to Location Levels 2 & 3 for Facilities are presented in Appendix B. The users of this standard must not deviate from the code lists provided in this standard. For any instances where a required code is not available, codes must be created in alignment with the conditions provided in Section 5.

6.3. AAA & SSS for Catchments (Location Level 1 & 2)

The Code lists relevant to Catchments and Sub-catchments (Level 1 & 2) are presented in Appendix C. The users of this standard must not deviate from the code lists provided in this standard. For any instances where a required code is not available, codes must be created in alignment with the conditions provided in Section 5.

AAA & SSS Codes only apply to SENS2.

Catchments do not have a defined Level 3. See FRA-00011 Asset Information Management Framework for more information.

6.4. EEE – Equipment Levels 1 – ‘n’

The Code lists relevant to Equipment such as general equipment, instrumentation and valves are presented in Appendices D to F. The users of this standard must not deviate from the code lists provided in this standard. For any instance where a required code is not available, codes must be created in alignment with the conditions provided in Section 5.

Note: The EEE code will only distinguish between Equipment Types down to a certain granularity. For example, in Appendix E – EEE – Code Lists for Instrumentation Equipment Types, it distinguishes a Flow Indicator (FI) from a Flow Indicator Transmitter (FIT). However, it will not distinguish between a Digital Flow Indicator and an Analog Flow Indicator.

EEE applies to both SENS1 and SENS2.

Code lists relevant to EEE are provided in Appendices D to F.

6.5. NNN - Unique Number

The Unique Number (NNN) is a three-digit sequential number allocated for each equipment. The unique number shall be padded with leading zeros to achieve a character count of three.

Unique number allocation shall adhere to the following requirements:

- A unique number shall be allocated for each equipment type within a Process Cell.
- The next available number within a Process Cell for that equipment type shall be allocated. Unique numbers shall not be skipped for holding purposes.
- Valve sequential numbers shall be allocated taking the valve type into consideration, which will be accommodated by the equipment code for valves.

6.6. MMM – Material Codes for Pipes

The Material Code (MMM) identifies the type of material from which the pipe is manufactured.

MMM Codes apply to both SENS1 and SENS2.

For the latest list of MMM Codes, refer to Appendix G

6.7. XXXX – Nominal Pipe Diameter Codes

The Nominal Pipe Diameter (XXXX) is the nominal diameter of the pipeline given in millimetres (mm).

XXXX Codes apply to both SENS1 and SENS2.

For SENS1, it may be one to four digits depending on the diameter of the pipe.

For SENS2, this block is fixed at 4-numeric characters.

Note: This is the nominal diameter of the pipeline. It is not the actual internal or external diameter.

Code list is provided in Appendix H.

6.8. FFF – Fluid Codes

The Fluid Code (FFF) identifies the fluid or gas which flows through the pipeline.

FFF Codes apply to both SENS1 and SENS2.

Code list is provided in Appendix J.

The Operations Process Engineer is responsible for defining fluid codes and confirming the delineation of fluid code boundaries across the process. This includes verification of fluid code transitions where product composition, pressure, temperature, or chemical dosing changes occur, and ensuring this information is accurately reflected on Process Flow Diagrams, HACCP plans, and Piping and Instrumentation Diagrams.

6.9. D – Equipment Designation

Equipment Designation (D) is a single character alpha code used to describe what category of equipment is being referenced.

D Codes apply to SENS1 Only.

Code list is provided in Appendix K.

6.10. S – Sub-area Number

The Sub-Area Number (S) is a single digit numeric code that represents where an asset is functionally located within an area, scheme or facility.

This includes, but is not limited to, assets at Water Treatment Plants, Pump Stations, Water Quality Management Facilities, Reservoirs and Dams as well as on Networks (pipelines).

S Codes apply to SENS1 Only.

Code list is provided in Appendix L.

6.11. Conditions for determining Asset and Equipment Codes

Asset and equipment naming codes must follow consistent, structured rules to ensure clarity, interoperability, and traceability across Seqwater's asset information system. The following conditions apply to all asset and equipment codes defined within this Standard, unless otherwise explicitly stated in Appendices A-M.

Updating code lists associated with the code blocks in this standard and issuing of equipment numbers are the sole responsibility of the Asset Information and Systems Team.

6.11.1. General Rules

Code Structure and Length

- Code length ranges used in the provided Code Lists must not be exceeded, and truncation must be avoided.
- Where numeric identifiers are required, the use of four-digit, zero-padded codes (e.g., 0037) is preferred over compressed or overfilled three-digit codes. This improves consistency and system readability.

Character Types

- Each block within a code must be defined as alphabetic, numeric, or alphanumeric, as specified in the Code Lists.**Error! Reference source not found.**
- Mixing alphabetic and numeric characters within a single block should be avoided unless explicitly stated in the Code lists provided.

Avoiding Ambiguous Characters

- To reduce misinterpretation in digital systems, handwritten notes, and field-based identification, the following ambiguous characters should not be used within alphanumeric blocks: i, o, l, O, 1, 0.
- These characters should only appear where the code block is strictly alphabetic (i, o, l, O) or strictly numeric (1, 0).

Consistency Across Hierarchy

- Items of the same type should retain a consistent code regardless of their parent or location within the asset hierarchy.
- Asset coding should not change solely because an asset sits under a different system, facility, or functional parent.

General Application

- Codes should be unambiguous, human-readable, system-compatible, and scalable for future expansion.
- All naming decisions must align with the broader principles defined in the Asset Information Management Framework (AIMF) and support single-source-of-truth asset identification.

6.11.2. Specific Rules

Table 7 Specific rules for code blocks

	Character type	Code length	Relevant Appendices
AAA	Alphanumeric	Fixed 3-characters	Appendix A, Appendix C (Catchments)
SSSS	Numeric	Fixed 4-characters excl. sub-catchments	Appendix B
SSS	Alphabetic	Fixed 3-characters for sub-catchments	Appendix C (Sub-catchments)
EEE	Alphanumeric	As per Appendices	Appendix D-F
MMM	Alphabetic	As per Appendices	Appendix G
XXXX	Numeric	Fixed 4-charaters (SENS2) 1-4 characters (SENS1)	Appendix H
FFF	Alphabetic	Fixed 3-characters	Appendix J
D	Alphabetic	Fixed 1-character (SENS1 Only)	Appendix K
S	Numeric	Fixed 1-character (SENS1 Only)	Appendix L

7. Equipment labelling

Equipment labels provide a clear, durable, and unambiguous physical link between installed equipment and its corresponding Equipment Number, as defined in this Procedure.

Equipment labels support:

1. positive identification of equipment in the field;
2. alignment between physical assets, drawings, and systems (e.g. P&IDs, isolation procedures, SCADA); and
3. reduction of human error during operations and maintenance activities.

Equipment labelling is a safety-critical control for operational and maintenance activities. Inadequate or missing equipment labels increase the risk of:

- incorrect isolation;
- incorrect operation; and
- misalignment between field assets and documented procedures.

Accordingly, equipment labelling shall be treated as a mandatory operational requirement, not an optional administrative activity.

7.1. Label specification

Specifications are outlined in D-DWG-STD-00027.

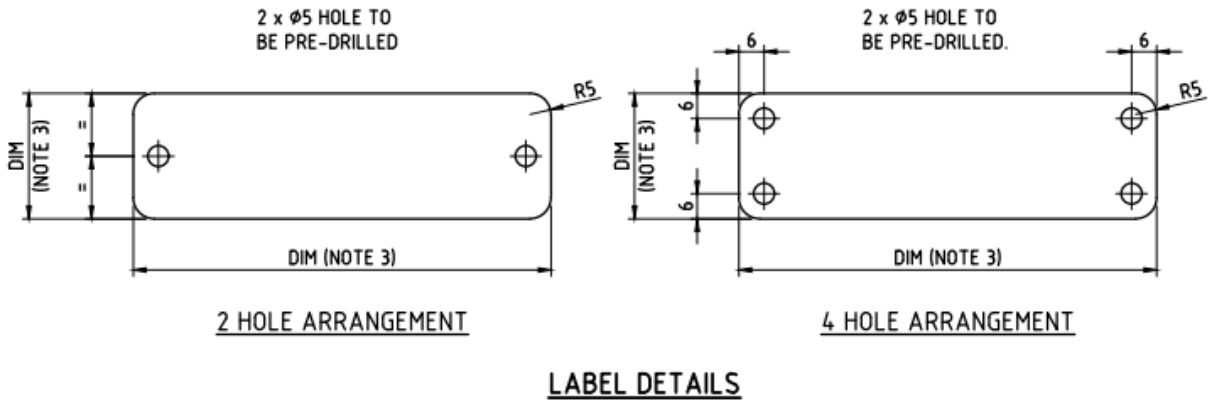

Figure 5 Equipment Label

The label displays the text as below.

First Line : Seqwater

Second Line : Equipment number as defined in Section 4.

7.2. Applicability

Where practicable, all Seqwater equipment shall be fitted with an Equipment Label displaying the Equipment Number

Equipment labels apply to equipment as defined in this Procedure, being elements required to be represented on P&IDs, PFDs, and electrical drawings, regardless of whether the equipment is also defined as a maintainable item.

Equipment labels shall not be required where:

- the equipment is virtual (e.g. alarm codes, software objects, virtual facilities);
- the equipment exists only as a logical or system representation; or
- physical labelling is not practicable due to size, access, safety, or environmental constraints.

In such cases, the Equipment Number shall still be represented consistently in drawings, registers, and systems.

7.3. Label placement

Equipment labels shall be installed such that:

- the label is clearly visible and legible during normal operation and maintenance activities;
- the label is obviously associated with the equipment it identifies; and
- the label supports safe and unambiguous identification during isolations, including where multiple similar items exist in close proximity.

Labels shall not be placed:

- on components that are routinely removed or replaced; nor
- where they are likely to be obscured, damaged, or rendered unreadable during normal operation or maintenance.

Where physical constraints prevent ideal placement, the placement shall prioritise isolation clarity and operational safety over aesthetic considerations.

Accordingly, equipment labelling shall be treated as a mandatory operational requirement, not an optional administrative activity.

8. Maintainable Item Numbering and Labelling

Equipment may be numbered as per the guidelines provided in Section 4.

8.1. Maintainable Item Naming and Numbering

As presented in Section 3.4, Maintainable Item number. will have a prefix 'A' in front of the Equipment number, where available, to identify the equipment as a maintainable item. In addition to this, the maintainable item will include a stainless-steel plate with the QR Code attached to them, that is called the "Maintainable Item Label".

8.2. Specifications

The following specifications must be used for the maintainable item label:

- SS316 stainless steel
- 1mm thickness
- 40mm x 60mm
- Laser etched text in black
- Capitalisation as per image below
- Plain Arial font
- QR code to be 24mm x 24mm

The requirements are stated in D-DWG-STD-00028 where the diagram below is taken from.

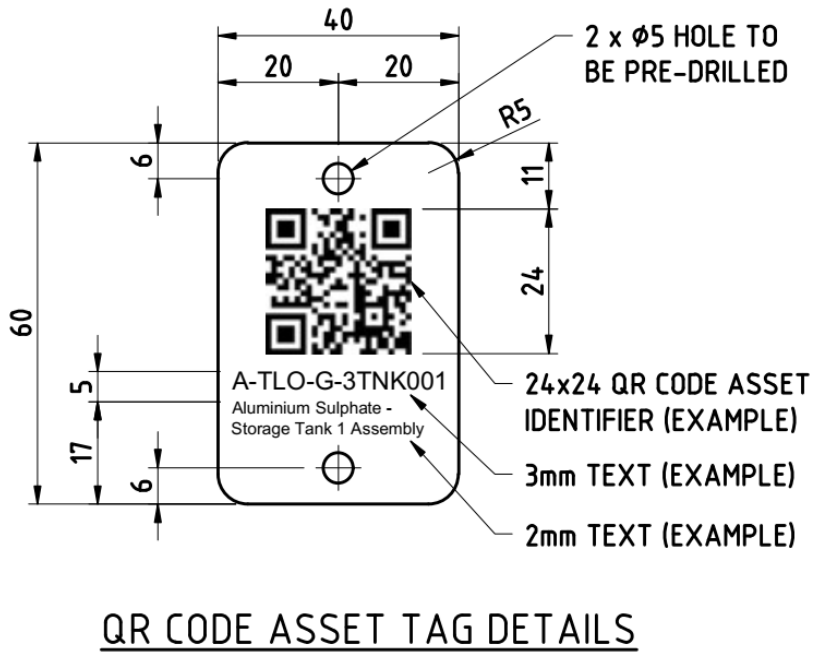

Figure 6 Maintainable Item Label

Deviations from D-DWG-STD-0008 should be discussed with the Asset Information and Systems Team and a Deviation Request as per X-TMP-STD-022 Asset Standards Deviation Request must be completed. The following options may be considered:

Materials

Aluminium plate

- 1.5mm thick
- Stamped text OR
- Laser etched text.

Aluminium plate with protective coating

- 1.5mm thick
- Printed text OR
- Laser etched text.

Font

- Plain Arial font. Character length will determine size of font with a minimum size of 3mm.

Attaching labels

- Labels are to be attached using Loctite 454tm which to date has proven to be the most successful for this application. Please refer to product Technical Data Sheets for advice on appropriate use.
- In instances where glue is not appropriate, swaging, tag lanyards with twist barrel or stainless-steel screws must be used. Where aluminium labels are to be used aluminium fixtures are to be used. Where Stainless-steel labels are to be used, stainless steel fixtures are to be used.

8.3. Label Placement

The person responsible for applying the maintainable item label will ensure that the label is legible based on the position of the label and the size of the font/s.

The label placement must be mounted so that they can be easily read/scanned from a normal viewing point (no higher than 1,700 mm), which are not subject to damage and are obviously associated with the item the label refers to.

Due to the strength of the adhesive, the preference is to attach the label adjacent to the item however, where this is not possible or appropriate, it may be attached to the maintainable item itself.

Labels should not be placed:

- On asset parts that are regularly replaced or repaired over time (e.g. consumables such as filters)
- Placed in a position where it will be exposed to excessive grease, lubricants or chemicals which could damage the adhesive.
- Where there is the potential to get dislodged, i.e. near moving items, or maintenance activities damaging labels unintentionally.

8.4. Obtaining a Maintainable Item Label

Asset Information and Systems Team is solely responsible for the provision of equipment numbers. Any deviation from this will require an Asset Standards Deviation Request (X-TMP-STD-022) approved by the Asset Information and Systems Coordinator.

The responsibility for obtaining and organising the installation of maintainable item labels depends on the reason the label is required. This aligns with Seqwater's Management of Change (Technical) Procedure (PRO-02234) .

- **New Maintainable Item (Project Delivery):**

  The Project Manager or nominated representative from the relevant project team is responsible for requesting, obtaining and coordinating the installation of maintainable item labels for new assets introduced through capital works or projects.

- **Maintenance Activities (Emergent Works or Routine Maintenance):**

  The Maintenance Team is responsible for managing maintainable item labels required as part of scheduled or emergent maintenance activities. For emergent works, responsibility may be assigned according to the nature and urgency of the work, as outlined in the Management of Change (Technical) Procedure (PRO-02234).

The Asset Information and Systems Team will issue the maintainable item number based on the primary equipment within the assembly e.g., a chemical dosing skid would have a maintainable item number, but components such as pipework, valves and instrumentation would only have equipment numbers.

8.4.1. New Maintainable Item labels

Request for equipment numbers shall be made using the Equipment Number Request Form *(X-TMP-STD-023)*.

For new assets, an As Constructed Equipment Information Report is to be provided to the Asset Information and Systems Team for processing before the asset is commissioned. The request will be processed by the Asset Information Systems Team, who will identify and confirm which equipment assemblies are considered to be maintainable items.

For major projects where there are two contracted partners for detailed design, equipment numbers will be allocated after a preferred design is chosen.

8.4.2. Replacement of existing label

Labels should be replaced in the following scenarios:

- If a maintainable item is replaced under maintenance and it carries a label that cannot be removed without damaging it
- If a maintainable item is modified i.e. a manually operated valve is changed to an actuated valve
- If the function of a maintainable item changes
- If you notice a damaged label due to fair wear and tear (e.g., corrosion, etc.)
- If you damage a label.

9. Heritage Asset Labels

This section is provided as an exemption to the rule for inclusion of a maintainable item label presented in Section 3.4.

Seqwater has several fixed and movable operational and non-operational heritage assets as well as archaeological and landscape related sites with heritage significance. Often, they exist on sites identified in local government heritage registers (for example the Brisbane City Council Heritage Register) or in the Queensland Heritage Register and are subject to relevant local or state planning policies.

Seqwater maintains a register of heritage assets to ensure they can be actively managed as required (this may/may-not be maintained within the Enterprise Asset Management System). Heritage specialists (including Seqwater, local/state and federal agency heritage officers) assess relevant assets to determine if they belong in the Heritage Asset Register.

Labelling heritage assets in the field serve two purposes;

- It lessens the probability of inadvertent damage during site activities
- It facilitates the retrieval of equipment specific data for active management and educational purposes.

Heritage asset labels shall be installed for all heritage assets. .

The design of heritage asset labels has been developed so that the materials, specifications, and durability are consistent with other Seqwater maintainable item labelling requirements, but the design is immediately recognisable from a distance by Seqwater staff, contractors and visitors alike.

It is important that heritage asset labels are installed so that damage to the item is avoided.

The Seqwater Heritage Officer shall be consulted when determining the heritage asset label design and means of installation to ensure that Seqwater continues to meet its obligation to protect and conserve these items.

Heritage asset labels are in accordance with D-DWG-STD-023 Pipeline Assets, Marker Post and Information Plates, and Heritage Assets, and shall be requested via email, - Asset.Information@seqwater.com.au -.

9.1. Labels for Operational Heritage Assets

The following information is to be provided on the labels:

- Seqwater Logo
- First line: Heritage Asset
- Second line: Maintainable Item number

Operational heritage assets will have numbers allocated according to the standard equipment naming convention. This allows the item to be maintained and managed according to Seqwater standard maintenance procedures.

Example of an operating heritage asset label below in Figure 7.

Figure 7 Operational Heritage Asset Label

9.2. Labels for Non-Operational Heritage Assets

Any heritage assets removed from service, becoming non-operational, shall be assigned a unique heritage asset number. The process for assigning a heritage asset number is described in the following section. The heritage asset label shall be updated to reflect the new heritage asset number.

- H-AAA-NNNNN (Heritage - Facility Code - Number)

The following information shall also be provided:

- Seqwater Logo
- First Line: Heritage Asset
- Second line: Heritage Asset Number.

Example of a non-operational heritage asset label below in Figure 8.

Figure 8 Non-Operational Heritage Asset Label

9.3. Further Signage Information for heritage assets

This Standard/Specification does not include standards for information boards and larger signage for heritage assets intended for public education.

To ensure the accuracy and consistency of any additional labelling of heritage assets Seqwater's Catchment, Land & Heritage team shall be consulted as well as Seqwater's Communication and Engagement Team.

10. Virtual Facility

Virtual facility codes are used in control system tag names where the tag name is not related to equipment or instrumentation at a physical facility. Virtual Facility codes shall be issued in accordance with I-SPE-STD-010 Standard Specification - Control Systems Tag Naming. This standard translates the equipment numbering to digital information that is captured in SCADA, historian and other future technologies. In particular:

- A descriptor is typically added to the equipment to represent function.
- There may be conventions to simplify the User interface e.g., not displaying the facility/linear asset code on all tags but still retaining the full tag structure for the data.
- I-SPE-STD-010 and Appendix E (based on modified ISA 5.1) may allow additional representations for the User and Corporate data systems.

This standard translates physical equipment numbering into digital information that is captured and used within SCADA systems, historians, and other current and future technology platforms. While the underlying equipment identifier remains consistent, its representation may vary depending on system and user context.

In particular:

- A descriptor is typically added to the equipment identifier to represent function or associated data.
- Conventions may be applied to simplify the user interface, for example by not displaying the facility or linear asset code on all tags, while retaining the full tag structure within the underlying data.
- I-SPE-STD-010 and Appendix E (based on a modified ISA 5.1) allow for additional representations of equipment identifiers for user interfaces and corporate data systems.

11. Definitions

The following definitions are used throughout this Standard/Specification.

Table 8 Definitions

Term	Definitions
Alphabetic	A code block containing letters only (A–Z), with no numbers or special characters.
Alphanumeric	A code block that may contain a combination of letters and numbers. No special characters.
Function/Area	Function/Area refers to the operational subdivision/functional area within the site or the bounds within the linear asset.
Asset	An item or a thing that has potential or actual value to Seqwater. An asset can be physical or non-physical. As per Seqwater's Strategic Asset Management Plan (SAMP) Section 1.5, this excludes the non-estate land assets and non-production assets such as fleet and mobile plant, non-operational buildings and non-operational technology-ICT assets and all Portable and Attractive Items (PAA).
Contractor	An entity engaged by Seqwater to undertake work in accordance with an agreed contract and defined scope of work.
Corporate Function	Corporate Function is the highest level in the asset hierarchy. It describes Seqwater's enterprise-wide functional groupings used for regulatory, financial and operational reporting. Corporate Function defines the predominant purpose within which assets are planned, funded, managed, and accounted for.
Data	Facts about an object. An object can be physical (e.g. a pump, a bridge, a building), or non-physical (e.g. a project plan, copyright, software). (ISO55000:2024, Clause 3.1.10).
Equipment	Equipment is the set of elements (including control, piping and monitoring devices) that are required to be represented in P&IDs, PFDs and Electrical Drawings.
Equipment Label	Refers to the label outlined in D-DWG-STD-00027 that are attached to Seqwater Equipment for the purpose of identification.
Facility/Linear Assets	Facility/Linear Assets refers to the physical facility (non-linear assets) or pipeline (linear assets) within the purview of Seqwater.
Function	A structured activity designed to accomplish a specific objective. This may be related to water treatment processes, bulk water supply, irrigation, recreation or other functions that Seqwater manages.
Heritage assets	Assets identified by a heritage specialist (including Seqwater and local, state and federal agency heritage officers) as having heritage significance.
Information	Meaningful result of organising and processing data. Example: Make/model/type of a pump in a specific location, span of a bridge, asset performance indicator, an asset's current total cost of ownership (ISO55000:2024).
Knowledge	Understanding facts, information, and principles acquired through experience, research, or education. Asset management knowledge can come from (ISO55000:2024): a) Internal sources (e.g., intellectual property, experience, lessons learned, bodies of knowledge, informal sources, process improvements, products/services, simulation models). b) External sources (e.g., standards, books, academia, conferences, customer or provider input).

Term	Definitions
Linear Asset	A linear asset is a physical infrastructure element that extends continuously across a geographic area, rather than existing as a discrete point or unit. Linear assets include pipelines and roads, where management requires consideration of length, spatial orientation, and changing attributes along the span.
Lowest Maintainable Level	The Lowest Maintainable Level (LML) is the lowest level of an asset in the breakdown structure that defines the granularity of asset records. LML may be dependent on the maintenance methodology employed, the complexity of the asset, and the phase of the asset in the life cycle.
Maintainable Item	Maintainable Item (MI) refers to an element that is commonly maintained (repaired/restored) in its entirety or cannot normally be dissembled or repaired or is of such a design that disassembly or repair is impractical or economically not viable, therefore replaced (e.g., motor, gearbox, agitator, etc.). Maintainable Item (MI) belongs to the LML. *This term supersedes the legacy term "operating asset".*
Maintainable Item Label	This refers to the piece of metal that has the QR code, attached to the maintainable item for the purposes of identification. *This term supersedes the legacy term "operating asset label".*
may	Indicates that the function may be exercised or not exercised, at discretion.
Numbering convention	A standard set of rules for assigning unique codes to equipment and maintainable items, ensuring consistent identification across registers, documents and systems.
Numeric	A code block containing numbers only (0–9), with no letters or symbols.
Operating asset	(Deprecated) See 'maintainable item'. The term 'operating asset' is no longer used; refer to 'maintainable item' for current terminology.
Operating asset label	(Deprecated) See 'maintainable item label'. The term 'operating asset label in no longer used; refer to 'maintainable item label' for current terminology.
Owner/principal/Seqwater	The entity that engages the contractor to undertake the work and takes custody of the outcome. The owner may delegate responsibilities to other entities to act on their behalf (e.g. a consultant).
Process Cell	Process cell refers to a grouping of processes within an area based on Seqwater business rules around defining the grouping methodology.
Seqwater approval/ acceptance	Approvals gained via the deviation process, as detailed in X-PRO-STD-008 Operating Asset Standards Management and Application.
shall /must	Indicates a mandatory requirement.
should	Indicates a recommendation.
Unit	Unit refers to a specific process unit within a process cell based on Seqwater business rules.

12. Abbreviations

The following abbreviations apply to this Standard/Specification.

Table 9 Abbreviations

Abbreviation	Description
ASCII	American Standard Code for Information Interchange
AIGP	Asset Information Governance Policy
AIMF	Asset Information Management Framework
EAMS	Enterprise Asset Management System
ICT	Information and Communications Technology
IMS	Integrated Management System
LML	Lowest Maintainable Level
MI	Maintainable Item
MOC	Management of Change
PAA	Portable and Attractive Items
P&ID	Piping and Instrumentation Diagram
PFD	Process Flow Diagram
SAMP	Strategic Asset Management Plan
SCADA	Supervisory Control and Data Acquisition
SENS1	Seqwater Equipment Numbering Schema 1
SENS2	Seqwater Equipment Numbering Schema 2
WTP	Water Treatment Plant

13. Roles and Responsibilities

In addition to the roles and responsibilities set out in the AIMF documentation suite, the following roles and responsibilities are applicable in the context of this Standard/Specification.

Table 10 Roles and Responsibilities

Role	Responsibilities
General Manager Asset Services	Accountable for implementation and management of this Standard/Specification.
Asset Information and Systems Coordinator	Responsible for implementation and management of this Standard/Specification. Responsible for the approval of any deviation request for this Standard/Specification.
Asset Information and Systems Team	Authors of the Standard/Specification. Responsible for the provision of equipment numbers and for ensuring compliance with the Standard/Specification. Responsible for maintaining, updating, and publishing the Asset Data Dictionary to ensure it remains the authoritative source for all asset codes, attribute domains, and numbering conventions. Responsible for reviewing and approving proposed changes to codes, attribute lists, and definitions, including those arising from new projects, regulatory changes, or continuous improvement initiatives. Responsible for coordinating with the Asset Information and Systems Team, project delivery teams, and other stakeholders to ensure all changes are communicated and implemented consistently across systems and documentation. Responsible for ensuring alignment with the AIMF, AIGP, and SAMP, and resolving discrepancies between the Data Dictionary and other controlled documents.
Seqwater Stakeholders	Consulted on the content of the Standard/Specification. Seqwater stakeholders shall not self-allocate equipment numbers under any circumstances; all equipment number requests must be submitted through the approved process and allocated by the Asset Information and Systems Team in accordance with Section 6.2 (Asset Data Handover) of AIMF.
Seqwater employees, contractors, suppliers and consultants working for, or on behalf of, Seqwater	Compliance with the requirements of this Standard/Specification. Ensures Seqwater approval or input is sought as required in this Procedure.
Requestor	Responsible for initiating equipment number requests when new maintainable items or equipment are introduced, or when changes require new identification following Management of Change standards. The Requestor shall submit equipment number requests in accordance with the timing requirements specified in Section 6.2 (Asset Data Handover) of Asset Information Framework. The Requestor must liaise with the Asset Information and Systems Team to confirm allocation and labelling requirements prior to installation.

14. References and Related Materials

The following documents and the requirements therein are relevant to this Standard/Specification. In their latest editions, these documents form part of this Standard/Specification.

Table 11 References and Related Material

Document number	Document title	REX number
	Asset Information Management Framework	FRA-00011
	Asset Information Governance Policy	POL-00182
	Strategic Asset Management Plan	PLN-00264
B-DWG-STD-002	P&ID Legend - Sheet 2 of 5, Codes and Abbreviations	REX & Waternet
D-DWG-STD-004	Pipeline Assets, Identification Plates	D20/108851 (Rev.4)
D-DWG-STD-022	Pipeline Assets, Marker Post and Information Plates, Sampling Points	D20/122983 (Rev.2)
D-DWG-STD-00027	Pipeline Assets, Equipment Label Tags, Detail	D21/179059 (Rev.1)
D-DWG-STD-00028	Pipeline Assets. QR Code Tag	D21/179060 (Rev.2)
D-DWG-STD-003	Pipeline Assets, Marker Post and Information Plates	D21/2179 (Rev.3)
D-DWG-STD-023	Pipeline Assets, Marker Post and Information Plates, Heritage Assets	D24/215857
	Pipelines Asset Class Plan	PLN-00440
	Filters Asset Class Plan	PLN-00427
E-PRO-STD-001	Cable Numbering Convention Procedure	PRO-02389
	Management of Change Framework	FRA-00009
	Management of Change (Technical) Procedure	PRO-02234
ISA-5.1:2022	Instrumentation Symbols and Identification	Intertek Inform
ISO55000:2024	Asset management - Vocabulary, overview and principles	Intertek Inform
X-PRO-STD-006	Equipment Numbering and Naming Convention Procedure	PRO-02190
X-PRO-STD-008	Asset Standards Management and Application Procedure	PRO-02205
I-SPE-STD-010	Control Systems Tag Naming	SPE-00359
I-SPE-STD-013	Engineering Standard Control Systems Design and Construction	SPE-00361
X-TMP-STD-022	Asset Standards Deviation Request Template	TEM-00224
X-TMP-STD-023	Equipment Number Request Form	FRM-01068
X-PRO-STD-014	Drawings Management Procedure	PRO-02253
B-PRO-STD-003	Piping and Instrumentation Diagram Drafting Procedure	PRO-02320
	Air Conditioning and Ventilation Systems Asset Class Plan	PLN-00395

Document number	Document title	REX number
	Auxiliary Power Asset Class Plan	PLN-00415
	Power Distribution and Switchboards Asset Class Plan	PLN-00421
	Transformers Asset Class Plan	PLN-00422
	Walkways, Platforms and Ladders Asset Class Plan	PLN-00405
	Bridges and Major Culverts Asset Class Plan	PLN-00406
	Erosion Protection Systems Asset Class Plan	PLN-00407
	Fences and Gates Asset Class Plan	PLN-00408
	Playgrounds Asset Class Plan	PLN-00409
	Roads, Trails and Hardstands Asset Class Plan	PLN-00410
	Drainage Systems Asset Class Plan	PLN-00412
	Tunnels Asset Class Plan	PLN-00414
	Dams, Concrete and Earth Embankments Asset Class Plan	PLN-00437
	Cranes, Hoists and Winches Asset Class Plan	PLN-00398
	Blowers and Compressed Air Systems Asset Class Plan	PLN-00424
	Process Water Reticulation Asset Class Plan	PLN-00431
	Monitoring and Control Systems (MCS) Asset Class Plan	PLN-00388
	Buildings Asset Class Plan	PLN-00434
	Asbestos Management Procedure	PRO-01752

Appendix A – AAA – Facility/Linear Asset Code List (Level 1) – (SENS1 & SENS2)

First Letter	Facility Type	Description	Facility Code	Drawing Code
A	Administration / Office Building	Creek Street	ACS	--
A	Administration / Office Building	Flood Control Centre	AF2	AF2
A	Administration / Office Building	ICON Building	AIP	--
Z	Administration Centre	Eagle Farm Offline Data Storage	ZEF	--
Z	Administration Centre	Woolloongabba Offline Data Storage	ZWO	--
T	Advanced Water Treatment Plant	Bundamba AWTP	T1B	T1B
T	Advanced Water Treatment Plant	Gibson Island AWTP	T1G	T1G
T	Advanced Water Treatment Plant	Luggage Point AWTP	T1L	T1L
A	Alert Station	Adams Bridge AL	AA1	AA1
A	Alert Station	Amberley AL	AA3	AA3
A	Alert Station	Amberley Alert Station – B	AA2	AA2
A	Alert Station	Atkinson Dam AL (WL) & TM	AA4	AA4
A	Alert Station	Atkinson Gravity Channel AL (R) & TM	AP6	AP6
A	Alert Station	Baroon Boat Ramp AL	AA5	AA5
A	Alert Station	Baroon Dam TW AL	AA7	AA7
A	Alert Station	Baroon Pocket Dam HW AL & TM	AA6	AA6
A	Alert Station	Baxters Creek AL & TM	AA8	AA8
A	Alert Station	Bill Gunn (Lake Dyer) Dam AL & TM	AA9	AA9
A	Alert Station	Blackbutt AL	AB1	AB1
A	Alert Station	Boat Mountain AL	AB2	AB2
A	Alert Station	Brisbane City AL & TM	AB3	AB3
A	Alert Station	Bromelton Dam AL (Rptr)	AB4	AB4
A	Alert Station	Buaraba Creek AL	AB5	AB5
A	Alert Station	Burbank AL	AB6	AB6
A	Alert Station	Burtons Bridge AL	AB7	AB7
A	Alert Station	Caboonbah AL	AB8	AB8
A	Alert Station	Cedar Pocket Dam AL & TM	AB9	AB9
A	Alert Station	Cooloolabin Dam HW AL & TM	AC1	AC1
A	Alert Station	Cooyar Creek AL	AC2	AC2
A	Alert Station	Cressbrook Dam AL	AC3	AC3
A	Alert Station	Crows Nest AL	AC4	AC4
A	Alert Station	Dayboro WWTP AL	AC5	AC5
A	Alert Station	Devon Hills AL	AC6	AC6
A	Alert Station	Devon Hills AL (Rptr)	AP7	AP7
A	Alert Station	Drapers Crossing AL	AC7	AC7
A	Alert Station	Enoggera Dam AL & TM	AC8	AC8
A	Alert Station	Eskdale AL	AC9	AC9
A	Alert Station	Ewen Maddock Dam AL & TM	AD1	AD1
A	Alert Station	Ferris Knob AL	AD2	AD2
A	Alert Station	Fulham AL	AD3	AD3
A	Alert Station	Gatton AL & TM	AD4	AD4
A	Alert Station	Glenore Grove AL	AD5	AD5
A	Alert Station	Gold Creek Dam AL & TM	AD6	AD6
A	Alert Station	Gregor Creek AL-B	AD7	AD7

First Letter	Facility Type	Description	Facility Code	Drawing Code
A	Alert Station	Gregor Creek AL-P & TM	AD8	AD8
A	Alert Station	Harrisville AL	AD9	AD9
A	Alert Station	Hazeldean AL	AE1	AE1
A	Alert Station	Helidon AL	AE2	AE2
A	Alert Station	Hinze Dam HW AL & TM	AE3	AE3
A	Alert Station	Jimna AL (Rptr)	AE4	AE4
A	Alert Station	Jindalee AL & TM	AE5	AE5
A	Alert Station	Kalbar Weir HW AL & TM	AE6	AE6
A	Alert Station	Kholo Bridge AL	AE7	AE7
A	Alert Station	Kilcoy AL (Rptr)	AE8	AE8
A	Alert Station	Kilcoy Creek AL	AE9	AE9
A	Alert Station	Kluvers Lookout AL	AF1	AF1
A	Alert Station	Kobble Creek AL	AP5	AP5
A	Alert Station	Kuss Road AL	AF3	AF3
A	Alert Station	Lake Clarendon AL & TM	AF4	AF4
A	Alert Station	Lake Kurwongbah (Sideling Creek Dam) AL & TM	AF5	AF5
A	Alert Station	Lake MacDonald Dam AL & TM	AF6	AF6
A	Alert Station	Lake Manchester AL & TM	AF7	AF7
A	Alert Station	Leslie Harrison AL & TM	AF8	AF8
A	Alert Station	Lindfield AL	AF9	AF9
A	Alert Station	Linville AL	AG1	AG1
A	Alert Station	Little Egypt AL	AG2	AG2
A	Alert Station	Little Nerang Dam HW AL & TM	AG3	AG3
A	Alert Station	Lowood AL P	AG4	AG4
A	Alert Station	Lowood Pump Station AL & TM	AG5	AG5
A	Alert Station	Lyons Bridge AL	AG7	AG7
A	Alert Station	Lyons Bridge AL B	AG6	AG6
A	Alert Station	Maroon Dam HW AL & TM	AG8	AG8
A	Alert Station	Moggill AL-P (Rptr)	AG9	AG9
A	Alert Station	Monsildale AL	AH1	AH1
A	Alert Station	Moogerah Dam HW AL (WL) & TM	AH2	AH2
A	Alert Station	Mount Binga AL	AH3	AH3
A	Alert Station	Mount Castle AL	AH4	AH4
A	Alert Station	Mount Cotton West AL	AH5	AH5
A	Alert Station	Mount Crosby AL & TM	AH6	AH6
A	Alert Station	Mount Crosby AL B	AH7	AH7
A	Alert Station	Mount Glorious AL-B (Rptr)	AH8	AH8
A	Alert Station	Mount Glorious AL-P (Rptr)	AH9	AH9
A	Alert Station	Mount Mee Alert Station - P	AJ2	AJ2
A	Alert Station	Mount Mee AL-P+B	AJ1	AJ1
A	Alert Station	Mount Peachey Alert Station	AJ3	AJ3
A	Alert Station	Mount Stanley AL	AJ4	AJ4
A	Alert Station	Nindooinbah Dam AL & TM	AJ5	AJ5
A	Alert Station	North Pine Dam AL-P+B & TM	AJ7	AJ7
A	Alert Station	Nukinenda AL	AJ8	AJ8
A	Alert Station	O'Reillys Weir AL & TM	AJ9	AJ9
A	Alert Station	Peachester AL	AK1	AK1
A	Alert Station	Poona Dam AL & TM	AK3	AK3

First Letter	Facility Type	Description	Facility Code	Drawing Code
A	Alert Station	Priestdale AL	AK4	AK4
A	Alert Station	Redbank Creek AL	AK5	AK5
A	Alert Station	Rochedale South AL	AK6	AK6
A	Alert Station	Rosentreters Bridge AL	AK7	AK7
A	Alert Station	Rosewood AL	AK8	AK8
A	Alert Station	Saint Aubyns AL	AK9	AK9
A	Alert Station	Samford AL	AL1	AL1
A	Alert Station	Savages Crossing AL	AL2	AL2
A	Alert Station	Showground Weir AL & TM	AL3	AL3
A	Alert Station	Somerset Dam AL-P+B+Test & TM	AL5	AL5
A	Alert Station	Splityard Creek Dam AL	AL7	AL7
A	Alert Station	Tarome AL	AL8	AL8
A	Alert Station	Tenthill AL	AL9	AL9
A	Alert Station	Thornton AL	AM1	AM1
A	Alert Station	Toowoomba AL (Rptr)	AM3	AM3
A	Alert Station	Top of Brisbane AL	AM4	AM4
A	Alert Station	Walloon AL	AM6	AM6
A	Alert Station	Walloon Alert Station – B	AM5	AM5
A	Alert Station	Wappa Dam HW AL & TM	AM7	AM7
A	Alert Station	Washpool AL	AM8	AM8
A	Alert Station	West Bellthorpe AL	AM9	AM9
A	Alert Station	West Woodbine AL	AN1	AN1
A	Alert Station	Westvale AL	AM2	AM2
A	Alert Station	White Swamp AL (Rptr)	AN3	AN3
A	Alert Station	Whyte Island AL	AN4	AN4
A	Alert Station	Wilsons Peak AL-P (Rptr)	AN5	AN5
A	Alert Station	Wivenhoe Dam HW Alert Station B2	AN7	AN7
A	Alert Station	Wivenhoe Dam HW AL-P+B & TM	AN6	AN6
A	Alert Station	Wivenhoe Dam TW AL & TM	AN8	AN8
A	Alert Station	Wivenhoe Dam TW Alert Station P	AN9	AN9
A	Alert Station	Woodford Alert Station B	AP1	AP1
A	Alert Station	Woodford AL-P+B	AP2	AP2
A	Alert Station	Yarraman AL (Rptr)	AP3	AP3
	Bore Field	Algester WTP (Aquifer) Borefield	BAL	BAL
	Bore Field	Amity Point WTP Borefield	BAP	BAP
	Bore Field	Bribie Is Test Bore	BBI	BBI
	Bore Field	Chandler WTP (Aquifer) Borefield	BCH	BCH
	Bore Field	Dunwich WTP Borefield	BDU	BDU
	Bore Field	Kenilworth Bore	BKN	BKN
	Bore Field	Kilcoy (Wade St) WTP Borefield	BKI	BKI
	Bore Field	Linville WTP Borefield	BLI	BLI
	Bore Field	North Stradbroke Island Borefields	BNS	BSN
	Bore Field	North Stradbroke Island WTP, Borefield Pipeline, South	BSS	BSS
	Bore Field	Point Lookout WTP Borefield	BPL	BPL
	Bore Field	Runcorn WTP (Aquifer) Borefield	BRU	BRU
	Bore Field	Sunnybank WTP (Aquifer) Borefield	BSN	TSN
	Bore Field	Woorim Test Borefield	BWO	BWO
	Channel	Black Gully Diversion Channel	IBC	IBC

First Letter	Facility Type	Description	Facility Code	Drawing Code
	Channel	Brightview BR1 Supply Channel	IB1	IB1
	Channel	Brightview Channel	IBV	IBV
C	Channel	Buaraba Creek	CBC	CBC
	Channel	Buaraba Creek Diversion Channel	IBU	IBU
	Channel	Buaraba Creek Supply Channel	IB2	IB2
	Channel	Calico Creek Channel	ICC	ICC
	Channel	Clarendon Diversion Channel	ICD	ICD
	Channel	Kents Lagoon Diversion Channel	IKL	IKL
C	Channel	Lockyer Creek	CLC	CLC
	Channel	McIntosh Channel	IMI	IMI
	Channel	Normanby Gully Diversion Channel (incl. The Loop)	ING	ING
	Channel	Pie Creek Channel	IPC	IPC
	Channel	Pie Creek Lateral 1 Channel	IP1	IP1
	Channel	Pie Creek Lateral 2 Channel	IP2	IP2
	Channel	Pie Creek Main Channel	IPM	IPM
	Channel	Seven Mile Lagoon Diversion Channel	I7M	I7M
	Channel	Upper Warrill Diversion Channel	IUW	IUW
	Channel	Warroolaba Creek Diversion Channel	IWR	IWR
	Channel	West Branch Warrill Diversion Channel	IWE	IWE
D	Dam	Atkinson Dam	DAT	DAT
D	Dam	Baroon Pocket Dam	DBP	DBP
D	Dam	Bill Gunn (Lake Dyer) Dam	DBG	DBG
D	Dam	Borumba Dam	DBR	DBR
D	Dam	Bromelton Dam	DBM	DBM
D	Dam	Cedar Pocket Dam	DCP	DCP
D	Dam	Clarendon Dam	DCL	DCL
D	Dam	Cooloolabin Dam	DCO	DCO
D	Dam	Enoggera Dam	DEN	DEN
D	Dam	Ewen Maddock Dam	DEM	DEM
D	Dam	Gold Creek Dam	DGC	DGC
D	Dam	Hinze Dam	DHZ	DHZ
D	Dam	Lake Kurwongbah (Sideling Creek Dam)	DLK	DLK
D	Dam	Lake Macdonald Dam	DLM	DLM
D	Dam	Lake Manchester Dam	DLN	DLN
D	Dam	Leslie Harrison Dam	DLH	DLH
D	Dam	Little Nerang Dam	DNE	DNE
D	Dam	Maroon Dam	DMA	DMA
D	Dam	Moogerah Dam	DMO	DMO
L	Dam	Nindooinbah Dam	LNI	LNI
D	Dam	North Pine Dam	DNP	DNP
D	Dam	Poona Dam	DPO	DPO
D	Dam	Somerset Dam	DSO	DSO
D	Dam	Wappa Dam	DWA	DWA
D	Dam	Wivenhoe Dam	DWI	DWI
D	Dam	Wyaralong Dam	DWY	DWY
	Gauging Station	Atkinson Dam GS	GAT	GAT
	Gauging Station	Baroon Pocket Dam HW GS	GBP	GBP
	Gauging Station	Berrys Lagoon GS	GBL	GBL

First Letter	Facility Type	Description	Facility Code	Drawing Code
	Gauging Station	Bob Birds Hut GS	GJ1	GJ1
	Gauging Station	Borumba Dam HW GS	GBR	GBR
	Gauging Station	Borumba Dam TW GS	GBO	GBO
	Gauging Station	Bromelton Dam HW GS	GBM	GBM
	Gauging Station	Bromelton Weir HW GS	GBW	GBW
	Gauging Station	Bromelton Weir TW GS	GBT	GBT
	Gauging Station	Cedar Grove Weir HW GS	GCG	GCG
	Gauging Station	Cedar Pocket Dam HW GS	GCP	GCP
	Gauging Station	Cedar Pocket Dam TW GS	GCE	GCE
	Gauging Station	Churchbank Weir GS	GCH	GCH
	Gauging Station	Clarendon Pump Station GS	GCS	GCS
	Gauging Station	Cooloolabin Dam HW GS	GCO	GCO
	Gauging Station	Dagun Pocket GS	GDP	GDP
	Gauging Station	Diversion Channel GS	GDC	GDC
	Gauging Station	Enoggera Dam HW GS	GEN	GEN
	Gauging Station	Ewen Maddock Dam HW GS	GEM	GEM
	Gauging Station	Gatton Weir GS	GGA	GGA
	Gauging Station	Gold Creek Dam HW GS	GGC	GGC
	Gauging Station	Gravity Channel GS	GAK	GAK
	Gauging Station	Gympie Weir GS	GIM	GIM
	Gauging Station	Hinze Dam HW GS	GHZ	GHZ
	Gauging Station	Kalbar Weir HW GS	GWB	GWB
	Gauging Station	Kalbar Weir TW GS	GKA	GKA
	Gauging Station	Lake Clarendon GS	GCL	GCL
	Gauging Station	Lake Dyer GS	GBG	GBG
	Gauging Station	Lake Kurwongbah (Sideling Creek Dam) GS	GLK	GLK
	Gauging Station	Lake Macdonald Dam HW GS	GLM	GLM
	Gauging Station	Lake Manchester Dam HW GS	GLN	GLN
	Gauging Station	Leslie Harrsion Dam HW GS	GLH	GLH
	Gauging Station	Little Nerang Dam HW GS	GNE	GNE
	Gauging Station	Maroon Dam HW GS	GMA	GMA
	Gauging Station	Maroon Dam TW GS	GMR	GMR
	Gauging Station	Moogerah Dam HW GS	GMO	GMO
	Gauging Station	Moogerah Dam TW GS	GMG	GMG
	Gauging Station	Mount Crosby Weir HW GS	GMC	GMC
	Gauging Station	Nindooinbah Dam HW GS	GNI	GNI
	Gauging Station	North Pine Dam HW GS	GNP	GNP
	Gauging Station	O'Reillys Weir HW GS	GOR	GOR
	Gauging Station	Poona Dam HW GS	GPO	GPO
	Gauging Station	Showgrounds Weir HW GS	GSH	GSH
	Gauging Station	Somerset Dam HW GS	GSO	GSO
	Gauging Station	South Maclean Weir HW GS	GSM	GSM
	Gauging Station	South Maclean Weir TW GS	GSC	GSC
	Gauging Station	South Maroochy Intake Weir GS	GST	GST
	Gauging Station	Toohills Crossing GS	GTC	GTC
	Gauging Station	Wappa Dam HW GS	GWA	GWA
	Gauging Station	Wivenhoe Dam HW GS	GWI	GWI
	Gauging Station	Wivenhoe Dam TW GS	GWV	GWV
	Gauging Station	Wyaralong Dam HW GS	GWY	GWY

First Letter	Facility Type	Description	Facility Code	Drawing Code
H	Hydroelectric Plant	Landers Shute Hydroelectric Plant	HLS	HLS
H	Hydroelectric Plant	Somerset Dam Hydroelectric Plant	HSO	HSO
H	Hydroelectric Plant	Wivenhoe Dam Hydroelectric Plant	HWD	HWD
	Irrigation Scheme	Cedar Pocket Irrigation Scheme	ICP	ICP
	Irrigation Scheme	Central Lockyer Irrigation Scheme	ICL	ICL
	Irrigation Scheme	Logan River Irrigation Scheme	ILR	ILR
	Irrigation Scheme	Lower Lockyer Distribution	IL1	IL1
	Irrigation Scheme	Lower Lockyer Irrigation Scheme	ILL	ILL
	Irrigation Scheme	Mary Valley Regulated Stream	IM1	IM1
	Irrigation Scheme	Morton Vale Irrigation Scheme	IMV	IMV
	Irrigation Scheme	Upper Mary Irrigation Scheme	IUM	IUM
	Irrigation Scheme	Warrill Valley Irrigation Scheme	IWV	IWV
L	Lagoon	Bigfoot Lagoon	LBF	LBF
L	Lagoon	Herring Lagoon	LHR	LHR
L	Lagoon	Seven Mile Lagoon	L7M	L7M
S	Manufactured Water Pump Station	Bundamba MWPS	SBM	SBU, 050
S	Manufactured Water Pump Station	Bundamba Recycled Water PS	S1B	S1B
S	Manufactured Water Pump Station	Gibson Island MWPS	S1G	S1G
S	Manufactured Water Pump Station	Gibson Island Recycled Water PS	S2G	S2G
S	Manufactured Water Pump Station	Kuraby Recycled Water PS	S2K	S2K
S	Manufactured Water Pump Station	Luggage Point MWPS	S1L	S1L
S	Manufactured Water Pump Station	Luggage Point Recycled Water PS	S2L	S2L
S	Manufactured Water Pump Station	Paringa Rd Recycled Water PS	S2P	S2P
S	Manufactured Water Pump Station	Swanbank Recycled Water PS	S2S	S2S
M	Mobile Facility	Mobile Chemical Dosing	MCD	MCD
L	Offstream Storage	Kilcoy (Wade St) Off stream Storage	LKO	LKO
L	Offstream Storage	Moodlu Quarry Off stream Storage	LMO	LMO
L	Offstream Storage	Woodford Off stream Storage	LWF	LWF
	Offtake	Beaudesert Offtake	O15	O15
	Offtake	Blackstone Offtake	O05	O05
	Offtake	Bundamba Offtake	O04	O04
	Offtake	Camerons Hill Offtake	O02	O02
	Offtake	Elimbah Offtake	O24	O24
	Offtake	Helensvale Offtake	O14	O14
	Offtake	Morayfield Offtake	O23	O23
	Offtake	Nambour Offtake	O44	O44
	Offtake	Noosa Branch Offtake	O42	O42
	Offtake	Ormeau Offtake	O12	O12
	Offtake	Petrie Offtake	O44	O44
	Offtake	Pimpama Offtake	O13	O13
	Offtake	Redbank Plains Offtake	O07	O07
	Offtake	Reedy Creek Offtake	O11	O11
	Offtake	Springfield Hlz Offtake	O09	O09
	Offtake	Springfield Llz Offtake	O08	O08
	Offtake	Swanbank Offtake	O06	O06
	Offtake	Teviot Road (Logan) Offtake	O16	O16
P	Pipeline	Acacia Ridge TW Scheme 01	P01	829, 893
P	Pipeline	Anstead to Runcorn TW Scheme 02	P02	819, 855, 914-916, 926,

First Letter	Facility Type	Description	Facility Code	Drawing Code
				927, 930, 931, 933, 935
P	Pipeline	Archerfield TW Scheme 03	P03	911
P	Pipeline	Aspley to Sparkes Hill TW Scheme 04	P04	841, 844
	Pipeline	Atkinson Dam 42" Rising Main	I01	I01
P	Pipeline	Banksia Beach Raw Water Pipeline	PBB	PBB
P	Pipeline	Baroon Pocket Dam Raw Water Pipeline	PBP	PBP
P	Pipeline	Beaudesert Raw Water Pipeline	PBR	PBR
P	Pipeline	Blackall Range Raw Water Pipeline	PBL	PBL
P	Pipeline	Brighton TW Scheme 05	P05	811, 865, 945
	Pipeline	Buaraba Creek Pipeline	IBP	IBP
P	Pipeline	Buaraba Creek Raw Water Pipeline	PBC	PBC
P	Pipeline	Bundamba To Caboonbah Recycled Water Pipeline	P2C	P2C
P	Pipeline	Bundamba to Swanbank Recycled Water Pipeline	P2B	P2B
P	Pipeline	Bundamba Treated Sewage Pipeline	P1B	P1B
P	Pipeline	Calico Creek Pipeline	PCC	PCC
P	Pipeline	Capalaba to Alex Hills TW Scheme 06	P06	272, 273
P	Pipeline	Compton Rd TW Scheme 07	P07	821
P	Pipeline	Coominya Raw Water Pipeline	PCY	PCY
P	Pipeline	Dayboro to Petrie Potable Pipeline	PDR	PDR
P	Pipeline	Eastern Pipeline TW Scheme 31	P31	211, 213
P	Pipeline	Esk, Wivenhoe to Esk WTP Pipeline	PEW	PEW
P	Pipeline	Ewen Maddock Potable Water Pipeline	PEM	PEM
P	Pipeline	GCDA Robina to Worongary TW Scheme 33	P33	706, 711, 715
P	Pipeline	GCDA Tugun to Clover Hill Drive TW Scheme 32	P32	701, 703, 706
P	Pipeline	Gibson Is to Bundamba Recycled Water Pipeline	P2G	P2G
P	Pipeline	Gold Creek to Enoggera Pipeline	PGC	PGC
P	Pipeline	Goodna To Bundamba Treated Sewage Pipeline	P1N	P1N
P	Pipeline	Green Hill to Wellers Hill TW Scheme 08	P08	813, 830, 856, 894
P	Pipeline	Heinemann Rd to Alex Hills TW Scheme 09	P09	226, 233, 236
P	Pipeline	Herring Lagoon to North Stradbroke Pipeline	PHL	PHL
P	Pipeline	Hinze Lower to Molendinar Raw Water Pipeline	PHZ	PHZ
P	Pipeline	Hinze Upper to Mudgeeraba Raw Water Pipeline	PHU	PHU
P	Pipeline	Illaweena TW Scheme 10	P10	824, 904
P	Pipeline	Ipswich Central TW Scheme 11	P11	938
P	Pipeline	Ipswich Eastern TW Scheme 12	P12	937
P	Pipeline	Ipswich Western TW Scheme 13	P13	939
P	Pipeline	Jimna Pipeline (Potable Water)	PJI	PJI
P	Pipeline	Jimna Pipeline (Raw Water)	PJM	PJM
P	Pipeline	Kalbar Raw Water Pipeline & Pump Station (NOT BUILT)	PKP	PKP
P	Pipeline	Kooralbyn Raw Water Pipeline Network	PKR	PKR

First Letter	Facility Type	Description	Facility Code	Drawing Code
P	Pipeline	Lake Dyer Diversion A Pipeline	PDA	PDA
	Pipeline	Lake Dyer Diversion B Pipeline	ILD	ILD
P	Pipeline	Lake Dyer Diversion B Pipeline	PDB	PDB
P	Pipeline	Landers Shute to Caloundra TW Scheme 39	P39	192, 194
P	Pipeline	Little Nerang to Mudgeeraba Raw Water Pipeline	PLN	PLN
P	Pipeline	Logan Central TW Scheme 14	P14	448, 449, 452, 897
P	Pipeline	Lowood Raw Water Pipeline	PLO	PLO
P	Pipeline	Luggage Point to Gibson Is Recycled Water Pipeline	P2L	P2L
P	Pipeline	Luggage Point to Gibson Is Treated Sewage Pipeline	P1L	P1L
P	Pipeline	Mary River Raw Water Pipeline	PMR	PMR
C	Pipeline	McIntosh Creek Pipeline	CMC	CMC
P	Pipeline	Moodlu Quarry Transfer Raw Water Pipeline	PMQ	PMQ
P	Pipeline	Morayfield to Narangba TW Scheme 15	P15	140
P	Pipeline	Moreton Vale Pipeline	PMV	PMV
P	Pipeline	Mt Crosby to Green Hill TW Scheme 16	P16	807, 814, 836, 838, 860, 861, 873, 887, 888
P	Pipeline	Mudgeeraba to Tarrant Drive TW Scheme 17	P17	584
P	Pipeline	Narangba to North Pine TW Scheme 35	P35	103, 104, 107
P	Pipeline	North pine to Aspley TW Scheme 18	P18	885, 890
P	Pipeline	NPI Kennedys Rd to Noosa PS TW Scheme 38	P38	309
P	Pipeline	North Stradbroke Island to Heinemann Rd TW Scheme 19	P19	223, 224
P	Pipeline	NPI Eudlo to Ferntree TW Scheme 36	P36	300-302, 304
P	Pipeline	NPI Ferntree to Kennedys Rd TW Scheme 37	P37	305-308
P	Pipeline	NPI Morayfield to Caloundra TW Scheme 34	P34	110-118
P	Pipeline	Oxley To Goodna treated Sewage Pipeline	P1O	P1O
P	Pipeline	Pine River Raw Water Pipeline	PPR	PPR
	Pipeline	Pipeline Potable Cedar Grove Pump station Connector pump st	401	401
	Pipeline	Pipeline Potable Cedar Grove Pump station Connector, Mounta	407	407
	Pipeline	Pipeline Potable Cedar Grove Pump station Connector, Clancy	408	408
	Pipeline	Pipeline Potable Cedar Grove Pump station Connector, Mounta	402	402
	Pipeline	Pipeline Potable Cedar Grove Pump station Connector, Green R	405	405
	Pipeline	Pipeline Potable Cedar Grove Pump station Connector, Illawee	406	406
	Pipeline	Pipeline Potable Cedar Grove Pump station Connector, Illawee	409	409
	Pipeline	Pipeline Potable Cedar Grove Pump station Connector, Mt. Lin	403	403

First Letter	Facility Type	Description	Facility Code	Drawing Code
	Pipeline	Pipeline Potable Cedar Grove Pump station Connector, SRWP co	404	404
P	Pipeline	Rafting Grounds to Tarragindi TW Scheme 20	P20	806, 892
P	Pipeline	Rathdowney Raw Water Pipeline	PRA	PRA
P	Pipeline	Robina Reservoir TW Scheme 22	P22	580
P	Pipeline	Rocklea to Kuraby TW Scheme 23	P23	815, 818, 847, 898, 901, 930
P	Pipeline	Russell Island to McLeay Island TW Scheme 21	P21	225
P	Pipeline	Somerset Dam WTP Pipeline	PSO	PSO
P	Pipeline	South Maclean Raw Water Pipeline	PML	PML
P	Pipeline	Sparkes Hill to Green Hill TW Scheme 24	P24	814, 846, 848, 874
P	Pipeline	SRWP Central Leg TW Scheme 28	P28	31-33, 41-42
P	Pipeline	SRWP Northern Leg TW Scheme 30	P30	Oct-18
P	Pipeline	SRWP Southern Leg TW Scheme 29	P29	34-38
P	Pipeline	Sunnybank Hills TW Scheme 25	P25	--
P	Pipeline	Tarrant Drive to Elanora TW Scheme 26	P26	570, 573-575
P	Pipeline	Tarrant Drive to Nerang TW Scheme 27	P27	585
P	Pipeline	Toogoolawah Raw Offtake Pipeline	PTO	PTO
P	Pipeline	Wacol to Goodna Treated Sewage Pipeline	P1W	P1W
P	Pipeline	Wivenhoe Release Treated Water Pipe	P2W	P2W
	Pump Station	Pump Station Cedar Grove	400	400
S	Raw Water Pump Station	Albert River RWPS	SAR	SAR
S	Raw Water Pump Station	Atkinson Dam RWPS	SAT	SAT
S	Raw Water Pump Station	Beaudesert RWPS	SBE	SBE
S	Raw Water Pump Station	Bribie Island RWPS	SBI	SBI
S	Raw Water Pump Station	Bromelton OSS RWPS	SBO	SBO
S	Raw Water Pump Station	Canungra RWPS	SCU	SCU
S	Raw Water Pump Station	Capalaba Low Lift RWPS	SCP	SCP
S	Raw Water Pump Station	Clarendon RWPS	SCL	SCL
S	Raw Water Pump Station	Coominya RWPS	SCY	SCY
S	Raw Water Pump Station	Dayboro Road RWPS	SDY	SDY
S	Raw Water Pump Station	Esk RWPS	SES	SES
S	Raw Water Pump Station	Goughs Crossing RWPS	SGC	SGC
S	Raw Water Pump Station	Herring Lagoon Intake RWPS	SHL	SHL
S	Raw Water Pump Station	Herring Lagoon RWPS	SHG	SHL
S	Raw Water Pump Station	Hinze Dam Lower RWPS	SHZ	SHZ
S	Raw Water Pump Station	Hinze Dam Upper RWPS	SHU	SHU
S	Raw Water Pump Station	Jimna RWPS	SJI	SJI
S	Raw Water Pump Station	Kenilworth RWPS	SKE	SKE
S	Raw Water Pump Station	Kilcoy (Lake Somerset) RWPS	SKI	SKI
S	Raw Water Pump Station	Kilcoy (Wade St) RWPS	SKS	SKS
S	Raw Water Pump Station	Kilcoy RWPS	SKY	SKY
S	Raw Water Pump Station	Kirkleagh (Recreation) RWPS	SKL	PKR
S	Raw Water Pump Station	Kooralbyn – Big Foot RWPS	SBF	SBF
S	Raw Water Pump Station	Kooralbyn Logan RWPS	SKO	SKO
S	Raw Water Pump Station	Lake Borumba Intake RWPS	SBP	SBP
S	Raw Water Pump Station	Lake Macdonald Dam RWPS	SLM	SLM

First Letter	Facility Type	Description	Facility Code	Drawing Code
S	Raw Water Pump Station	Lloyd Street RWPS	SLL	SLL
S	Raw Water Pump Station	Lowood Booster RWPS	SLR	SLR
S	Raw Water Pump Station	Lowood Intake RWPS	SLO	SLO
S	Raw Water Pump Station	Maleny RWPS	SMR	SMR
S	Raw Water Pump Station	Maroon Dam RWPS	SMN	SMN
S	Raw Water Pump Station	Mary River RWPS	SMA	SMA
S	Raw Water Pump Station	Moodlu Quarry WPS	SMO	SMO
S	Raw Water Pump Station	Moogerah Dam RWPS	SMG	SMG
S	Raw Water Pump Station	Mount Crosby East Bank RWPS	SEB	SEB
S	Raw Water Pump Station	Pie Creek RWPS	SPC	SPC
S	Raw Water Pump Station	Purdons Bridge WPS	SPB	SPB
S	Raw Water Pump Station	Rathdowney RWPS	SRB	SRB
S	Raw Water Pump Station	Redbank Creek RWPS	SRC	SRC
S	Raw Water Pump Station	Reynolds Creek RWPS	SRY	SRY
S	Raw Water Pump Station	Somerset Dam RWPS	SSD	SSD
S	Raw Water Pump Station	Somerset Dam RWPS	SSO	SSO
S	Raw Water Pump Station	South Maclean RWPS	SSM	SSM
S	Raw Water Pump Station	South Maroochy RWPS	SSI	SSI
S	Raw Water Pump Station	Stanley River RWPS	SST	SST
S	Raw Water Pump Station	Wamuran Bore RWPS	SWA	SWA
S	Raw Water Pump Station	Wappa Dam RWPS	SWD	SWD
S	Raw Water Pump Station	Wararba Creek RWPS	SWC	SWC
S	Raw Water Pump Station	Wivenhoe Dam RWPS	SWR	SWR
S	Raw Water Pump Station	Woodford OSS RWPS	SWO	SWO
	Recreation Area	Atkinson Dam Recreation Areas	FAT	FAT
	Recreation Area	Baroon Pocket Dam Recreation Area	FBP	FBP
	Recreation Area	Bill Gunn (Lake Dyer) Dam Recreation Area	FBG	FBG
	Recreation Area	Borumba Dam Recreation Area	FBR	FBR
	Recreation Area	Cedar Pocket Dam Recreation Area	FCT	FCT
	Recreation Area	Cooloolabin Dam Recreation Area	FCO	FCO
	Recreation Area	Enoggera Dam Recreation Areas	FEN	FEN
	Recreation Area	Ewen Maddock Dam Recreation Area	FEM	FEM
	Recreation Area	Gold Creek Dam Recreation Area	FGC	FGC
	Recreation Area	Hinze Dam Recreation Areas	FHZ	FHZ
	Recreation Area	Lake Kurwongbah (Sideling Creek Dam) Recreation Areas	FLK	FLK
	Recreation Area	Lake Macdonald Dam Recreation Areas	FLM	FLM
	Recreation Area	Lake Manchester Dam Recreation Areas	FLN	FLN
	Recreation Area	Little Nerang Dam Recreation Areas	FNG	FNG
	Recreation Area	Maroon Dam Recreation Areas	FMD	FMD
	Recreation Area	Moogerah Dam Recreation Areas	FMO	FMO
	Recreation Area	North Pine Dam Recreation Areas	FNP	FNP
	Recreation Area	Somerset Dam Recreation Areas	FSO	FSO
	Recreation Area	Wappa Dam Recreation Areas	FWA	FWA
	Recreation Area	Wivenhoe Dam Recreation Areas	FWI	FWI
	Recreation Area	Wyaralong Dam Recreation Areas	FWY	FWY
R	Reservoir	Alexandra Hills Elevated Tower	RAT	RAT
R	Reservoir	Alexandra Hills Reservoir 1	RA1	RA1
R	Reservoir	Alexandra Hills Reservoir 2	RA2	RA2

First Letter	Facility Type	Description	Facility Code	Drawing Code
R	Reservoir	Alexandra Hills Reservoir 3	RA3	RA3
R	Reservoir	Alexandra Hills Reservoir 4	RA4	RA4
R	Reservoir	Alexandra Hills Reservoir 5	RA5	RA5
R	Reservoir	Algester TW Reservoir	RAL	RAL
R	Reservoir	Amity Point TW Reservoir	RAP	RAP
R	Reservoir	Aspley Reservoir	RAS	RAS
R	Reservoir	Banksia Beach TW Reservoir	RBB	RBB
R	Reservoir	Beaudesert TW Reservoir	RBE	RBE
R	Reservoir	Boonah-Kalbar TW Reservoir	RBK	RBK
R	Reservoir	Camerons Hill Reservoir	RCH	RCH, RCI
R	Reservoir	Canungra TW Reservoir 1	RU1	RU1
R	Reservoir	Canungra TW Reservoir 2	RU2	RU2
R	Reservoir	Canungra TW Reservoir 3	RU3	RU3
R	Reservoir	Capalaba TW Reservoir 1	RC1	RC1
R	Reservoir	Capalaba TW Reservoir 2	RC2	RC2
R	Reservoir	Chandler TW Reservoir	RCD	RCD
R	Reservoir	Coominya BoH Tank	RCY	RCY
R	Reservoir	Cooroora Reservoir	RCE	RCE
R	Reservoir	Cormorant Bay Reservoir	RCB	RCB
R	Reservoir	Dunwich TW Reservoir	RDU	RDU
R	Reservoir	Esk Recycled Water Reservoir	RES	RES
R	Reservoir	Ewen Maddock Reservoir	REM	REM
	Reservoir	Ferntree Reservoir	KFE	356
R	Reservoir	Green Hill Reservoir 1	RG1	RG1
R	Reservoir	Green Hill Reservoir 2	RG2	RG2
R	Reservoir	Heinemann Road Reservoir 1	RH1	RH1
R	Reservoir	Heinemann Road Reservoir 2	RH2	RH2
R	Reservoir	Heinemann Road Reservoir 3	RH3	RH3
R	Reservoir	Hinze Dam Lower BoH Tank	RHZ	RHZ
R	Reservoir	Hinze Dam Upper BoH Tank	RHU	RHU
R	Reservoir	Image Flat TW Reservoir 1	RI1	RI1
R	Reservoir	Image Flat TW Reservoir 2	RI2	RI2
R	Reservoir	Jimna Reservoir	RJI	RJI
R	Reservoir	Kilcoy (Wade St) TW Reservoir	RKI	RKI
R	Reservoir	Kilcoy TW Reservoir	RKC	RKC
R	Reservoir	Kimberley Park BOH Tank	RKT	210
R	Reservoir	Kimberley Park Reservoir	RKP	210
R	Reservoir	Kuraby Reservoir	RKU	RKU
R	Reservoir	Landers Shute TW Reservoir 1	RL2	RL2
R	Reservoir	Landers Shute TW Reservoir 2	RL1	RL1
R	Reservoir	Linville Reservoir	RLI	RLI
R	Reservoir	Lowood Recycled Water Reservoir	RLR	RLR
R	Reservoir	Lowood TW Reservoir 1	RLN	RLN
R	Reservoir	Lowood TW Reservoir 2	RLO	RLO
R	Reservoir	Lumley Hill Reservoir	RLU	RLU
R	Reservoir	Maleny TW Reservoir	RM2	RM2
R	Reservoir	Molendinar 3 Reservoir, Potable Water	RM3	RM3
R	Reservoir	Molendinar 4 Reservoir, Potable Water	RM4	RM4
R	Reservoir	Molendinar 5 Reservoir, Potable Water	RM5	RM5

First Letter	Facility Type	Description	Facility Code	Drawing Code
R	Reservoir	Molendinar 6 Reservoir, Potable Water	RM6	RM6
	Reservoir	Molendinar RES 7	KMN	58
R	Reservoir	Mt Cotton Reservoir	RMC	235
R	Reservoir	Narangba Reservoir 1	RN1	RN1
R	Reservoir	Narangba Reservoir 2	RN2	RN2
R	Reservoir	Narangba Reservoir 3	RN3	RN3
	Reservoir	Greenbank Reservoirs	RGB	RGB
R	Reservoir	North Stradbroke Island TW Reservoir 1	RS3	RS3
R	Reservoir	North Stradbroke Island TW Reservoir 2	RS4	RS4
R	Reservoir	Petrie TW Reservoir 1	RP1	RP1
R	Reservoir	Petrie TW Reservoir 2	RP2	RP2
R	Reservoir	Point Lookout TW Reservoir	RPL	RPL
R	Reservoir	Robina Mixing Reservoir	RRM	RRM
R	Reservoir	Robina Reservoir 1	RRO	RRO
R	Reservoir	Runcorn TW Reservoir	RRU	RRU
R	Reservoir	Sparkes Hill Reservoir 1	RS1	RS1
R	Reservoir	Sparkes Hill Reservoir 2	RS2	RS2
	Reservoir	Stapylton Balance Tank	KST	KST
R	Reservoir	Sunnybank TW Reservoir	RSN	RSN
R	Reservoir	Wellers Hill Reservoir 1	RW1	RW1
R	Reservoir	Wellers Hill Reservoir 2	RW2	RW2
Q	Seismic Station	Hinze Dam Seismic Station	QHD	QHD
Q	Seismic Station	Maroon Dam Seismic Station	QMD	QMD
Q	Seismic Station	North Pine Dam Seismic Station	QNP	QNP
Q	Seismic Station	O'Briens Hill Seismic Station	QOH	QOH
Q	Seismic Station	Paradise Creek Seismic Station	QPC	QPC
Q	Seismic Station	Regents Park Seismic Station	QRP	QRP
Q	Seismic Station	Somerset Dam Seismic Station	QSD	QSD
Q	Seismic Station	Wivenhoe Dam Seismic Station	QWD	QWD
E	Sewage Treatment Plant	Hinze Dam STP	EHZ	EHZ
E	Sewage Treatment Plant	Kirkleagh (Recreation) STP	EKT	TKL
E	Sewage Treatment Plant	Lumley Hill STP	ELU	TLU
E	Sewage Treatment Plant	Maroon Dam STP	EMA	EMA
E	Sewage Treatment Plant	North Pine STP	ENP	ENP
E	Sewage Treatment Plant	Somerset Dam STP	ESO	ESO
S	Sewerage Pump Station	Captain Logan Camp SPS	SCM	SCM
S	Sewerage Pump Station	Cormorant Bay SPS	SCB	SCB
S	Sewerage Pump Station	Goodna Treated SPS	S1N	S1N
S	Sewerage Pump Station	Kirkleagh (Recreation) SPS	SKR	SKR
S	Sewerage Pump Station	Logan Inlet SPS	SLG	SLG
S	Sewerage Pump Station	Oxley Treated SPS	S1O	S1O
S	Sewerage Pump Station	Wivenhoe SPS	SWI	SWI
	Site	Albert River Weir Site	XAR	WAL
	Site	Alexandra Hills Reservoir Site	XAH	RA1, RA2, RA3, RA4, RA5, RAT
	Site	Algester WTP Site	XAL	TAL
	Site	Amity Point WTP Site	XAP	TAP
	Site	Aspley Reservoir Site	XAY	RAS

First Letter	Facility Type	Description	Facility Code	Drawing Code
	Site	Atkinson Dam (Recreation) WTP Site	XAK	TAK
	Site	Banksia Beach WTP Site	XBB	TBB
	Site	Baroon Pocket Dam Site	XBP	DBP
	Site	Beaudesert Weir Site	XBW	WBE
	Site	Beaudesert WTP Site	XBE	TBE
	Site	Bill Gunn (Lake Dyer) Dam Site	XBG	DBG
	Site	Boonah-Kalbar WTP Site	XBK	TBK
	Site	Bromelton Dam Site	XBM	DBM
	Site	Bromelton Weir Site	XBL	WBW
	Site	Bundamba AWTP Site	XBD	T1B
	Site	Bundamba TWPS Site	XBU	SBU
	Site	Camerons Hill Reservoir Site	XCH	NCH
	Site	Camerons Hill WQF Site	XCQ	NCH
	Site	Canungra WTP Site	XCN	TCN
	Site	Capalaba WTP Site	XCP	TCP
	Site	Cedar Pocket Dam Site	XCK	DCP
	Site	Chambers Flat TWPS Site	XCF	54
	Site	Chandler WTP Site	XCD	TCH
	Site	Clarendon Weir Site	XCL	WCL
	Site	Cooloolabin Dam Site	XCO	DCO
	Site	Coomera TWPS Site	XCR	56
	Site	Cooroora Reservoir Site	XCE	RCE
	Site	Cormorant Bay Reservoir Site	XCB	RCB
	Site	Cormorant Bay SPS Site	XCM	SCB
	Site	Daisy Hill TWPS Site	XDH	450
	Site	Dayboro WTP Site	XDY	TDY
	Site	Dunwich WTP Site	XDU	TDU
	Site	Enoggera WTP Site	XEN	TEN
	Site	Eprapah TWPS Site	XEP	SEP
	Site	Esk WTP Site	XES	TES
	Site	Eudlo TWPS Site	XEU	358
	Site	Ewen Maddock Dam Site	XEM	DEM
	Site	Ferntree Reservoir Site	XFE	356
	Site	Gibson Island AWTP Site	X1G	T1G
	Site	Gold Creek Dam Site	XGC	DGC
	Site	Gramzow Road TWPS Site	XGR	212
	Site	Green Hill Reservoir Site	XGH	RG1, RG2
	Site	Heinemann Road Reservoir Site	XHR	RH1, RH2, RH3
	Site	Herring Lagoon Site	XHL	LHR
	Site	Hinze Dam Site	XHZ	DHZ
	Site	Image Flat WTP Site	XIF	TIF
	Site	Jimna WTP Site	XJI	TJI
	Site	Jordan 1 Weir Site	XJ1	WJ1
	Site	Jordan 2 Weir Site	XJ2	WJ2
	Site	Kenilworth WTP Site	XKE	TKE
	Site	Kilcoy (Lake Somerset) RWPS Site	XKS	SKI
	Site	Kilcoy (Lake Somerset) WTP Site	XKC	TKS
	Site	Kilcoy (Wade St) WTP Site	XKI	TKI

First Letter	Facility Type	Description	Facility Code	Drawing Code
	Site	Kilcoy Weir - Site	XKO	WKC
	Site	Kilcoy WTP Site	XKY	TKY
	Site	Kimberley Park Reservoir Site	XKP	210
	Site	Kirkleagh (Recreation) RWPS Site	XKL	PKR
	Site	Kirkleagh (Recreation) SPS Site	XKK	SKR
	Site	Kirkleagh (Recreation) STP Site	XKT	TKL
	Site	Kirkleagh (Recreation) WTP Site	XKR	TKR
	Site	Kuraby Reservoir Site	XKU	RKU
	Site	Lake Macdonald Dam Site	XLM	DLM
	Site	Lake Manchester Dam Site	XLN	DLN
	Site	Landers Shute WTP Site	XLS	TLS
	Site	Leslie Harrison Dam Site	XLH	DLH
	Site	Linville WTP Site	XLI	TLI
	Site	Little Nerang Dam Site	XNE	DNE
	Site	Lowood WTP Site	XLO	TLO
	Site	Luggage Point AWTP Site	X1L	T1L
	Site	Maleny Weir Site	XM2	WM2
	Site	Maleny WTP Site	XMA	TMA
	Site	Maroon Dam Site	XMD	DMA
	Site	Molendinar RES and TWPS Site	XMN	RM3, RM4, RM5, RM6, 058, SMD
	Site	Molendinar WTP Site	XMO	TMO
	Site	Moodlu Quarry Off Stream Storage Site	XMQ	LMO
	Site	Moogerah Dam Site	XMH	DMO
	Site	Moogerah Dam WTP Site	XMT	TMG
	Site	Morayfield Reservoir Site	XMY	NMF
	Site	Mount Crosby East Bank WTP Site	XEB	TEB
	Site	Mount Crosby Weir Site	XMW	WMC
	Site	Mount Crosby West Bank WTP Site	XWB	TWB
	Site	Mt Cotton Reservoir Site	XMC	235
	Site	Mudgeeraba TWPS Site	XMG	SMU
	Site	Mudgeeraba WTP Site	XMU	TMU
	Site	Narangba Reservoir 1 Site	XNB	RN1
	Site	Nindooinbah Dam Site	XNI	LNI
	Site	Noosa WTP Site	XNO	TNO
	Site	North Beaudesert Balance Tank Site	XBN	53
	Site	North Pine WTP Site	XNP	TNP
	Site	North Stradbroke Island WTP Site	XNS	TNS
	Site	Petrie WTP Site	XPE	TPE
	Site	Point Lookout WTP Site	XPL	TPL
	Site	Poona Dam Site	XPO	DPO
	Site	Rathdowney Weir Site	XRT	WRT
	Site	Rathdowney WTP Site	XRA	TRA
	Site	Redbank Creek Weir Site	XRB	WRB
	Site	Robina Reservoir Site	XRO	RRO
	Site	Runcorn WTP Site	XRU	TRU
	Site	Somerset CSW Site	XSW	HSD
	Site	Somerset Dam (Township) WTP Site	XSD	TST

First Letter	Facility Type	Description	Facility Code	Drawing Code
	Site	Somerset Dam Site	XSS	DSO
	Site	Somerset Dam STP Site	XSO	--
	Site	South Maclean Weir Site	XSM	WSM
	Site	Sparkes Hill Reservoir Site	XSH	RS1, RS2
	Site	Stapylton Balance Tank Site	XST	KST
	Site	Sunnybank WTP Site	XSN	TSN
	Site	Tarrant Drive WPS Site	XTD	STR
	Site	Tugan Desalination WTP Site	X1T	T1T
	Site	Wappa Dam Site	XWA	DWA
	Site	Wararba Creek Weir Site	XWC	WWC
	Site	Wellers Hill Site	XWL	SWH
	Site	Wivenhoe Dam Site	XWI	DWI
	Site	Wivenhoe SPS Site	XWH	--
	Site	Woodford Off Stream Storage Site	XWO	LWF
	Site	Woodford WTP Site	XWF	TWF
	Site	Woorim WTP Site	XWR	TWO
	Site	Wyaralong Dam Site	XWY	DWY
S	Treated Effluent Pump Station	Goodna High Lift Treated Effluent PS	SG1	SG1
S	Treated Effluent Pump Station	Goodna Low Lift Treated Effluent PS	SG2	SG2
S	Treated Effluent Pump Station	Oxley High Lift Treated Effluent PS	SO1	SO1
S	Treated Effluent Pump Station	Oxley Low Lift Treated Effluent PS	SO2	SO2
S	Treated Effluent Pump Station	Wacol Treated Effluent PS	SW1	SW1
S	Treated Water Pump Station	Alexandra Hills TWPS	SAH	SAH
S	Treated Water Pump Station	Algester TWPS	SAL	SAL
S	Treated Water Pump Station	Amity Point TWPS	SAP	SAP
S	Treated Water Pump Station	Aspley TWPS	SAS	SAS
S	Treated Water Pump Station	Banksia Beach TWPS	SBB	SBB
S	Treated Water Pump Station	Beaudesert TWPS	SBD	SBD
S	Treated Water Pump Station	Boonah-Kalbar TWPS	SBK	SBK
S	Treated Water Pump Station	Bundamba TWPS	SBU	SBU
S	Treated Water Pump Station	Byrnes Road WPS	SBY	SBY
S	Treated Water Pump Station	Camerons Hill TWPS	SCH	SCH
S	Treated Water Pump Station	Canungra TWPS	SCN	SCN
S	Treated Water Pump Station	Capalaba TWPS	SC1	SC1
S	Treated Water Pump Station	Chambers Flat TWPS	SCF	54
S	Treated Water Pump Station	Chandler TWPS	SCD	SCD
S	Treated Water Pump Station	Coomera TWPS	SCO	56
S	Treated Water Pump Station	Daisy Hill TWPS	SDH	450
S	Treated Water Pump Station	Dayboro WTP TWPS	SDW	SDW
S	Treated Water Pump Station	Dunwich TWPS	SDU	SDU
S	Treated Water Pump Station	Enoggera TWPS	SEN	SEN
S	Treated Water Pump Station	Eprapah TWPS	SEP	SEP
S	Treated Water Pump Station	Eudlo TWPS	SEU	358
S	Treated Water Pump Station	Gramzow Road TWPS	SGR	212
S	Treated Water Pump Station	Heathwood TWPS	S2H	S2H
S	Treated Water Pump Station	Heinemann Road TWPS	SHR	SHR
S	Treated Water Pump Station	Helen St TWPS	SHS	SHS
R	Treated Water Pump Station	Kilcoy TWPS	RKY	RKY
S	Treated Water Pump Station	Kimberley Park TWPS	SKP	SKP

First Letter	Facility Type	Description	Facility Code	Drawing Code
S	Treated Water Pump Station	Landers Shute TWPS	SLS	SLS
S	Treated Water Pump Station	Learoyd Road TWPS	SLE	SLE
S	Treated Water Pump Station	Lowood TWPS	SLT	SLT
S	Treated Water Pump Station	Maleny TWPS	SMT	SMT
S	Treated Water Pump Station	Molendinar TWPS	SMD	SMD
S	Treated Water Pump Station	Morayfield TWPS	SMY	153
S	Treated Water Pump Station	Mudgeeraba TWPS	SMU	SMU
S	Treated Water Pump Station	Narangba TWPS	SNA	SNA
S	Treated Water Pump Station	Noosa TWPS	SNO	353
S	Treated Water Pump Station	North Pine TWPS	SNT	SNT
S	Treated Water Pump Station	Point Lookout TWPS	SPL	SPL
S	Treated Water Pump Station	Runcorn TWPS	SRU	SRU
S	Treated Water Pump Station	Stones Road TWPS	SSR	640
S	Treated Water Pump Station	Sunnybank TWPS	SSN	SSN
S	Treated Water Pump Station	Swanbank TWPS	SSB	SSB
S	Treated Water Pump Station	Tarrant Drive TWPS	STD	STR
S	Treated Water Pump Station	Trinder Park TWPS	STP	STP
S	Treated Water Pump Station	Tugan Desalination TWPS	S1T	S1T
S	Treated Water Pump Station	Wellers Hill TWPS	SWH	SWH
S	Treated Water Pump Station	Western Boost TWPS	S2W	S2W
S	Treated Water Pump Station	Western Tfr TWPS	S2F	S2F
	Water Quality Facility	Alexandra Hills Common Inlet/Outlet WQF	W01	W01
	Water Quality Facility	Alexandra Hills North Outlet WQF	W02	W02
	Water Quality Facility	Alexandra Hills South Outlet WQF	W04	W04
	Water Quality Facility	Alexandra Hills WQF	W03	W03
	Water Quality Facility	Aspley Reservoir Outlet WQF	W05	W05
	Water Quality Facility	Byrnes Rd WQF	W06	W06
N	Water Quality Facility	Camerons Hill WQF	NCH	NCH
N	Water Quality Facility	Chambers Flat WQF	NCF	54
	Water Quality Facility	Mt Crosby WTP & SRWP Mixed Water WQF	W34	W34
N	Water Quality Facility	Aspley WQF	NAS	NAS
	Water Quality Facility	Ferntree WQF	W10	W10
N	Water Quality Facility	Gramzow Rd WQF	NGR	NGR
	Water Quality Facility	Green Hill Reservoir Outlet WQF	W12	W12
	Water Quality Facility	Heineman Rd (Res 2 & 3) WQF	W14	W14
	Water Quality Facility	Heinemann Road Reservoir 1 Outlet WQF	W15	W15
	Water Quality Facility	Heinemann Road Reservoir 1 WQF	W16	W16
	Water Quality Facility	Heinemann Road Reservoir 2&3 Outlet WQF	W13	W13
	Water Quality Facility	Kimberley Park Reservoir Outlet WQF	W17	W17
	Water Quality Facility	Kuraby Reservoir Outlet WQF	W18	W18
	Water Quality Facility	Landsborough (Caloundra Street) WQF	W07	151
	Water Quality Facility	Molendinar RES 7 WQF	W19	NMO
	Water Quality Facility	Molendinar Reservoir Inlet WQF	W20	W20
N	Water Quality Facility	Monitoring Station North Beaudesert BT	NNB	NNB
N	Water Quality Facility	Monitoring Station North Pine	NNP	NNP
N	Water Quality Facility	Monitoring Station Sparkes Hill	NSH	W27
N	Water Quality Facility	Monitoring Station Sparkes Hill Common Outlet	NGP	W28
N	Water Quality Facility	Mooloolah WQF	NNR	NNR

First Letter	Facility Type	Description	Facility Code	Drawing Code
N	Water Quality Facility	Morayfield Reservoir WQF	NMF	NMF
	Water Quality Facility	Mt Cotton Reservoir WQF	W23	W23
	Water Quality Facility	Narangba Reservoirs Outlet WQF	W24	W24
	Water Quality Facility	Noosa WQF	W31	353
	Water Quality Facility	North Beaudesert Balance Tank WQF	W25	53
S	Water Quality Facility	North Pine WQF	SNP	SNP
	Water Quality Facility	Robina Mixing Site WQF	W32	W32
	Water Quality Facility	Sparkes Hill Inlet WQF	W27	W27
	Water Quality Facility	Sparkes Hill Outlet WQF	W28	W28
	Water Quality Facility	Stapylton WQF	W29	055
	Water Quality Facility	Tarrant Drive WQF	W33	W33
	Water Quality Facility	Wellers Hill Reservoir Outlet WQF	W30	W30
T	Water Treatment Plant	Albert River WTP	TAR	TAR
T	Water Treatment Plant	Algester WTP	TAL	TAL
T	Water Treatment Plant	Amity Point WTP	TAP	TAP
T	Water Treatment Plant	Aratula WTP	TAT	TAT
T	Water Treatment Plant	Atkinson Dam (Recreation) WTP	TAD	TAK
T	Water Treatment Plant	Atkinson Dam WTP	TAK	TAK
T	Water Treatment Plant	Banksia Beach WTP	TBB	TBB
T	Water Treatment Plant	Beaudesert WTP	TBE	TBE
T	Water Treatment Plant	Boonah-Kalbar WTP	TBK	TBK
T	Water Treatment Plant	Borumba Dam WTP	TBO	TBO
T	Water Treatment Plant	Canungra WTP	TCN	TCN
T	Water Treatment Plant	Capalaba WTP	TCP	TCP
T	Water Treatment Plant	Chandler WTP	TCH	TCH
T	Water Treatment Plant	Dayboro WTP	TDY	TDY
T	Water Treatment Plant	Dunwich WTP	TDU	TDU
T	Water Treatment Plant	Enoggera WTP	TEN	TEN
T	Water Treatment Plant	Esk WTP	TES	TES
T	Water Treatment Plant	Ewen Maddock WTP	TEM	TEM
T	Water Treatment Plant	Hinze Dam WTP	THZ	THZ
T	Water Treatment Plant	Image Flat WTP	TIF	TIF
T	Water Treatment Plant	Jimna WTP	TJI	TJI
T	Water Treatment Plant	Kenilworth WTP	TKE	TKE
T	Water Treatment Plant	Kilcoy (Lake Somerset) WTP	TKS	TKS
T	Water Treatment Plant	Kilcoy (Wade St) WTP	TKI	TKI
T	Water Treatment Plant	Kilcoy WTP	TKY	TKY
T	Water Treatment Plant	Kirkleagh (Recreation) WTP	TKR	TKR
T	Water Treatment Plant	Kooralbyn WTP	TKO	TKO
T	Water Treatment Plant	Landers Shute WTP	TLS	TLS
T	Water Treatment Plant	Linville WTP	TLI	TLI
T	Water Treatment Plant	Lowood WTP	TLO	TLO
T	Water Treatment Plant	Maleny WTP	TMA	TMA
T	Water Treatment Plant	Maroon Dam WTP	TMD	TMD
T	Water Treatment Plant	Molendinar WTP	TMO	TMO
T	Water Treatment Plant	Moogerah Dam WTP	TMG	TMG
T	Water Treatment Plant	Mount Crosby East Bank WTP	TEB	TEB
T	Water Treatment Plant	Mount Crosby Holts Hill WTP	THH	THH
T	Water Treatment Plant	Mount Crosby West Bank WTP	TWB	TWB

First Letter	Facility Type	Description	Facility Code	Drawing Code
T	Water Treatment Plant	Mudgeeraba WTP	TMU	TMU
T	Water Treatment Plant	Noosa WTP	TNO	TNO
T	Water Treatment Plant	North Pine WTP	TNP	TNP
T	Water Treatment Plant	North Stradbroke Island WTP	TNS	TNS
T	Water Treatment Plant	Petrie WTP	TPE	TPE
T	Water Treatment Plant	Point Lookout WTP	TPL	TPL
T	Water Treatment Plant	Rathdowney WTP	TRA	TRA
T	Water Treatment Plant	Runcorn WTP	TRU	TRU
T	Water Treatment Plant	Somerset Dam (Township) WTP	TST	TST
T	Water Treatment Plant	South Maclean WTP	TSM	TSM
T	Water Treatment Plant	Sunnybank WTP	TSN	TSN
T	Water Treatment Plant	Tugan Desalination WTP	T1T	T1T
T	Water Treatment Plant	Wivenhoe Dam (Recreation) WTP	TWR	TWR
T	Water Treatment Plant	Woodford WTP	TWF	TWF
T	Water Treatment Plant	Woorim WTP	TWO	TWO
T	Water Treatment Plant	Wyaralong WTP	TWY	TWY
	Weir	Albert River Weir	WAL	WAL
	Weir	Aratula Weir	WAR	WAR
	Weir	Beaudesert Weir	WBE	WBE
	Weir	Brightview Weir	WBR	WBR
	Weir	Bromelton Weir	WBW	WBW
	Weir	Buaraba Creek Weir	WBC	WBC
	Weir	Caboolture River Weir	WCR	WCR
	Weir	Carpendale Weir	WCA	WCA
	Weir	Cedar Grove Weir	WCG	WCG
	Weir	Churchbank Weir	WCH	WCH
	Weir	Clarendon Weir	WCL	WCL
	Weir	Crowley Vale Weir	WCV	WCV
	Weir	Dayboro Road RWPS Weir	WDR	WDR
	Weir	Flagstone Creek Weir	WFL	WFL
	Weir	Gatton Weir	WGA	WGA
	Weir	Glenore Grove Weir	WGL	WGL
	Weir	Grantham Weir	WGR	WGR
	Weir	Gympie Weir	WGY	WGY
	Weir	Imbil Weir	WIM	WIM
	Weir	Jordan 1 Weir	WJ1	WJ1
	Weir	Jordan 2 Weir	WJ2	WJ2
	Weir	Kents Lagoon Diversion Weir	WKL	WKL
	Weir	Kentville Weir	WKE	WKE
	Weir	Kilcoy Weir	WKC	WKC
	Weir	Kings Lane Weir	WOO	WOO
	Weir	Laidley Creek Diversion Weir	WLC	WLC
	Weir	Lower Flagstone Creek Weir	WLF	WLF
	Weir	Lower Tenthill Creek Weir	WLT	WLT
	Weir	Ma Ma Creek Weir	WMM	WMM
	Weir	Maleny Weir	WM2	WM2
	Weir	Mount Crosby Weir	WMC	WMC
	Weir	Mulgowie Weir	WMU	WMU
	Weir	O'Reillys Weir	WOR	WOR

First Letter	Facility Type	Description	Facility Code	Drawing Code
	Weir	Potters Weir	WPO	WPO
	Weir	Railway Weir	WRA	WRA
	Weir	Rathdowney Weir	WRT	WRT
	Weir	Redbank Creek Weir	WRB	WRB
	Weir	Sandy Creek Weir	WSC	WSC
	Weir	Showgrounds Weir	WSH	WSH
	Weir	Sippels Weir	WSI	WSI
	Weir	South Maclean Weir	WSM	WSM
	Weir	South Maroochy Intake Weir	WST	WST
	Weir	Stanley River Weir	WSR	WSR
	Weir	Tenthill Creek Weir	WTC	WTC
	Weir	Upper Warrill Diversion Weir	WUW	WUW
	Weir	Wararba Creek Weir	WWC	WWC
	Weir	Warrill Creek Diversion Weir	WJU	WJU
	Weir	Warroolaba Creek Diversion Weir	WWR	WWR
	Weir	West Branch Warrill Diversion Weir	WWB	WWB
	Weir	Wilson Weir	WWW	WWW
	Weir	Yabba Creek Weir	WYC	WYC
H	Workshop	Ewen Maddock CSW	HEM	HEM
H	Workshop	Hinze CSW	HHZ	HHZ
H	Workshop	Image Flat CSW	HIF	HIF
H	Workshop	Lake Macdonald CSW	HLM	HLM
H	Workshop	Moogerah CSW	HMO	HMO
H	Workshop	North Pine CSW	HNP	HNP
H	Workshop	Pie Creek CSW	HPC	HPC
H	Workshop	Somerset CSW	HSD	HSD
H	Workshop	Wivenhoe CSW	HWI	HWI
H	Workshop	Wyaralong CSW	HWY	HWY

Appendix B – SSSS – Area/Process Cell Code Lists for Facilities (Level 2/3) – (SENS2)

Unique Digit for Level 2	Level 2 Location (i.e., Functional Area)	Unique Code for Level 3 Location (i.e., Process Cell)	Level 3 Location (i.e., Process Cell)	SSSS Code
1	Raw Water	010	Raw Water Intake	1010
1	Raw Water	020	Raw Water Monitoring	1020
1	Raw Water	030	Raw Water Transfer	1030
1	Raw Water	040	Aerator System	1040
1	Raw Water	050	Flash & Static Mixers	1050
1	Raw Water	060	Dam Structure (Dams)	1060
2	Sedimentation	010	Flocculation	2010
2	Sedimentation	020	Sedimentation Basin System	2020
2	Sedimentation	030	Dissolved Air Flotation Unit (DAF) System	2030
2	Sedimentation	040	Settled Water System	2040
3	Filtration	010	Filter Feed System	3010
3	Filtration	020	Biologically Activated Carbon (BAC) Filter System (PLN-00427)	3020
3	Filtration	030	Membrane Filter System	3030
3	Filtration	031	Reverse Osmosis Filtration	3031
3	Filtration	032	Nano Filtration	3032
3	Filtration	033	Ultra Filtration	3033
3	Filtration	034	Micro Filtration	3034
3	Filtration	040	Granulated Activated Carbon (GAC) Filter System (PLN-00427)	3040
3	Filtration	050	Backwash System	3050
3	Filtration	060	Water Transfer	3060
3	Filtration	070	Cartridge Filtration	3070
3	Filtration	080	Media Filtration	3080
3	Filtration	081	Mono Media Filtration	
3	Filtration	082	Dual Media Filtration	3082
3	Filtration	083	Multi-Media Filtration	3083
3	Filtration	090	Filtration Equipment	3090
4	Disinfection	010	UV Disinfection	4010
4	Disinfection	020	Chlorine Contact	4020
4	Disinfection	030	Ozone System	4030
5	Chemical	010	Aluminium Chlorohydrate	5010
5	Chemical	020	Aluminium Sulphate (Alum)	5020

Unique Digit for Level 2	Level 2 Location (i.e., Functional Area)	Unique Code for Level 3 Location (i.e., Process Cell)	Level 3 Location (i.e., Process Cell)	SSSS Code
5	Chemical	030	Ammonia Gas	5030
5	Chemical	040	Ammonium Hydroxide (Aqueous)	5040
5	Chemical	050	Ammonium Sulphate	5050
5	Chemical	060	Anhydrous Ammonia	5060
5	Chemical	070	Ascorbic Acid	5070
5	Chemical	080	Calcium Chloride	5080
5	Chemical	090	Calcium Hydroxide (Lime)	5090
5	Chemical	100	Carbon Dioxide (CO2)	5100
5	Chemical	110	Chlorine Dioxide	5110
5	Chemical	120	Citric Acid	5120
5	Chemical	130	Ferric Chloride	5130
5	Chemical	140	Heptafluoropropane (FM200)	5140
5	Chemical	150	Hydrochloric Acid	5150
5	Chemical	160	Hydrogen Peroxide	5160
5	Chemical	170	Hypochlorous Acid	5170
5	Chemical	180	Liquid Oxygen	5180
5	Chemical	190	Magnasol	5190
5	Chemical	200	Methyl Alcohol	5200
5	Chemical	210	Monochloramine	5210
5	Chemical	220	PolyDADMAC	5220
5	Chemical	230	Polyelectrolyte (Polymer)	5230
5	Chemical	240	Potassium Permanganate	5240
5	Chemical	250	Powder Activated Carbon (PAC)	5250
5	Chemical	260	Sodium Bisulphite	5260
5	Chemical	270	Sodium Carbonate (Soda Ash)	5270
5	Chemical	280	Sodium Chloride (Salt)	5280
5	Chemical	290	Sodium Fluorosilicate	5290
5	Chemical	300	Sodium Hydroxide (Caustic Soda)	5300
5	Chemical	310	Sodium Hypochlorite (Hypo)	5310
5	Chemical	320	Sulphuric Acid	5320
5	Chemical	330	Common Equipment	5330
6	Water treatment residuals	010	Backwash Recovery (Waste Water)	6010
6	Water treatment residuals	020	Sludge Storage & Mixing	6020
6	Water treatment residuals	030	Sludge Thickening	6030
6	Water treatment residuals	040	Supernatant Return	6040
6	Water treatment residuals	050	Sludge Dewatering (Drying)	6050
6	Water treatment residuals	060	Centrate System	6060

Unique Digit for Level 2	Level 2 Location (i.e., Functional Area)	Unique Code for Level 3 Location (i.e., Process Cell)	Level 3 Location (i.e., Process Cell)	SSSS Code
6	Water treatment residuals	070	Common Equipment	6070
6	Water treatment residuals	080	Brine Pumping System	6080
7	Treated Water	010	Treated Water Storage	7010
7	Treated Water	020	Treated Water Monitoring	7020
7	Treated Water	030	Treated Water Transfer	7030
8	Site Services	010	Electrical (PLN-00415, PLN-00421, PLN-00422)	8010
8	Site Services	020	Site Infrastructure (PLN-00405, PLN-00406, PLN-00407, PLN-00408, PLN-00409, PLN-00410, PLN-00412, PLN-00414, PLN-00437)	8020
8	Site Services	030	Fire Protection & Security Systems (No Applicable ACP)	8030
8	Site Services	040	Lifting Equipment (PLN-00398)	8040
8	Site Services	050	Compressed Air (PLN-00424)	8050
8	Site Services	060	Mobile Equipment (No Applicable ACP)	8060
8	Site Services	070	Water Reticulation (PLN-00431)	8070
8	Site Services	080	Sewerage (No Applicable ACP)	8080
8	Site Services	090	Control & Monitoring (PLN-00388)	8090
8	Site Services	100	HVAC (PLN-00395)	8100
8	Site Services	110	Buildings (PLN-00434)	8110
8	Site Services	120	Safety Equipment & PPE (No Applicable ACP)	8120
8	Site Services	130	Workshop Equipment	8130
8	Site Services	140	Recreation Areas (Dam)	8140

Appendix C – AAA & SSS – Code Lists for Catchments (Level 1/2) – (SENS 2)

Catchment (Level 1)	Catchment code	Subcatchment (Level 2)	Subcatchment code
Baroon Pocket	CBP	Baroon Pocket Dam Subcatchment	CBP
Baroon Pocket	CBP	Bridge Creek Subcatchment	CBC
Baroon Pocket	CBP	Falls Creek Subcatchment	CFC
Baroon Pocket	CBP	Lexys Creek Subcatchment	CLC
Baroon Pocket	CBP	Obi Creek Subcatchment	COC
Baroon Pocket	CBP	Walkers Creek Subcatchment	CWC
Bribie Island	CBI	Bribie Island Subcatchment	CBI
Caboolture River	CCR	Caboolture River Weir Subcatchment	CRW
Caboolture River	CCR	Wararaba Creek Weir Subcatchment	CWC
Cedar Pocket	CCP	Cedar Pocket Dam Subcatchment	CPD
Lockyer Valley	CLV	Buraraba Creek Subcatchment	CBC
Lockyer Valley	CLV	Flagstone Creek Subcatchment	CFC
Lockyer Valley	CLV	Laidley Creek Subcatchment	CLA
Lockyer Valley	CLV	Lake Clarendon Subcatchment	CLC
Lockyer Valley	CLV	Lockyer Creek Subcatchment	CLO
Lockyer Valley	CLV	Ma Creek Subcatchment	CMM
Lockyer Valley	CLV	Murphys Creek Subcatchment	CMC
Lockyer Valley	CLV	Redbank Creek Subcatchment	CRC
Lockyer Valley	CLV	Sandy Creek Subcatchment	CSC
Lockyer Valley	CLV	Tenthill Creek Subcatchment	CTC
Logan River	CLR	Albert River Subcatchment	CAR
Logan River	CLR	Cannon Creek (Kooralbyn) Subcatchment	CCK
Logan River	CLR	Canungra Creek Subcatchment	CCC
Logan River	CLR	Cedar Grove Subcatchment	CCG
Logan River	CLR	Logan River Subcatchment	CLO
Logan River	CLR	Maroon Subcatchment	CMA
Logan River	CLR	Teviot Brook Subcatchment	CTB
Logan River	CLR	Upper Logan River Subcatchment	CUL
Logan River	CLR	Wyaralong Subcatchment	CWL
Lower Brisbane	CLB	Enoggera Creek Subcatchment	CEC
Lower Brisbane	CLB	Gold Creek Subcatchment	CGC
Maroochy River	CMR	Cooloolabin Subcatchment	CCS
Maroochy River	CMR	Image Flat Subcatchment	CIF
Maroochy River	CMR	Poona Dam Subcatchment	CPD
Maroochy River	CMR	Wappa Subcatchment	CWS
Mary River Valley	CMV	Amamoor Creek Subcatchment	CAC
Mary River Valley	CMV	Borumba Subcatchment	CBS
Mary River Valley	CMV	Jimna Subcatchment	CJS
Mary River Valley	CMV	Kandanga Creek Subcatchment	CKC
Mary River Valley	CMV	Kenilworth Subcatchment	CKW
Mary River Valley	CMV	Mary Valley Intake Subcatchment	CMI
Mary River Valley	CMV	Pie Creek Subcatchment	CPC
Mid Brisbane	CMB	Black Snake Creek Subcatchment	CBS

Catchment (Level 1)	Catchment code	Subcatchment (Level 2)	Subcatchment code
Mid Brisbane	CMB	England Creek Subcatchment	CEC
Mid Brisbane	CMB	Mid Brisbane River Subcatchment	CBR
Mid Brisbane	CMB	Splityard Creek Subcatchment	CSY
Mid Brisbane	CMB	Spring Creek Subcatchment	CSC
Mid Brisbane	CMB	Upper Cabbage Tree Creek Subcatchment	CUC
Mooloolah River	CMO	Ewen Maddock Dam Subcatchment	CEM
Nerang River	CNR	Advancetown Lake Subcatchment	CAL
Nerang River	CNR	Little Nerang Creek Subcatchment	CLN
North Stradbroke Island	CNS	North Stradbroke Island Subcatchment	CSR
Pine Valley	CPV	Dayboro Subcatchment	CDS
Pine Valley	CPV	Kobble Creek Subcatchment	CKS
Pine Valley	CPV	Lake Kurwongbah Subcatchment	CLK
Pine Valley	CPV	Lake Samsonvale Subcatchment	CLS
Pine Valley	CPV	Mount Samson Creek Subcatchment	CMS
Pine Valley	CPV	Petrie Subcatchment	CPS
Pine Valley	CPV	Rush Creek Subcatchment	CRC
Pine Valley	CPV	Sideling Creek Subcatchment	CSC
Pine Valley	CPV	Terrors Creek Subcatchment	CTC
Redlands	CRE	Leslie Harrison (Capalaba) Subcatchment	CLH
Redlands	CRE	Priest Gully Subcatchment	CPG
Redlands	CRE	Tingalpa Creek Subcatchment	CTC
Six Mile Creek	CSM	Cooroy Creek Subcatchment	CCS
Six Mile Creek	CSM	Lake Macdonald Subcatchment	CLM
Stanley	CST	Byron Creek Subcatchment	CBC
Stanley	CST	Kilcoy Creek Subcatchment	CKC
Stanley	CST	Lake Somerset Subcatchment	CLS
Stanley	CST	Monkeybong Creek Subcatchment	CMC
Stanley	CST	Neurum Creek Subcatchment	CNC
Stanley	CST	Sandy Creek Subcatchment	CSC
Stanley	CST	Sheep Station Creek Subcatchment	CSS
Stanley	CST	Somerset West Subcatchment	CSW
Stanley	CST	Stanley River Subcatchment	CSR
Stanley	CST	Stony Creek Subcatchment	CCK
Upper Brisbane	CUB	Cooyar Creek Subcatchment	CCC
Upper Brisbane	CUB	Cressbrook Creek Subcatchment	CCR
Upper Brisbane	CUB	Emu Creek Subcatchment	CEC
Upper Brisbane	CUB	Ivory Creek Subcatchment	CIC
Upper Brisbane	CUB	Lake Wivenhoe Subcatchment	CLW
Upper Brisbane	CUB	Maronghi Creek Subcatchment	CMC
Upper Brisbane	CUB	Upper Brisbane River Subcatchment	CBR
Upper Brisbane	CUB	Wivenhoe East Subcatchment	CWE
Upper Brisbane	CUB	Wivenhoe West Subcatchment	CWW
Warrill Valley	CWV	Lake Moogerah Subcatchment	CLM
Upper Brisbane	CUB	Reynolds Creek Subcatchment	CRC

Appendix D – EEE – Code Lists for General Equipment Types – (SENS1 & SENS2)

Equipment Code	Description	Equipment Designation
ABU	Abutment	G
SIL	Acoustic Louvre/Silencer	M
ACT	Actuator	M
AER	Aerator	M
AGJ	Agitator	M
ABR	Air Breather	M
CPR	Air Compressor	M
ACU	Air Conditioning Unit	E
ACR	Air Cooler	M
ADR	Air Dryer	M
ARE	Air Receiver	G
ALS	Alarm System	T
ALT	Alternator	E
ANO	Anode Bed Cathodic Protection	E
BAF	Baffle Plate	G
BGL	Bag Loader/Unloader	M
BAR	Barrier	G
BAT	Battery	E
BCH	Battery Charger	E
BUK	Baulk	G
BIR	Bin (Refuse)	G
BIN	Bin (silo or hopper)	G
BLR	Blower (High Volume, Low Pressure)	M
BOR	Bore	G
BWL	Bowl Drive Part of Centrifuge	M
BRK	Bracket	G
BAP	Breathing Apparatus	M
BDG	Bridge (Plant – Person or Vehicle/Fixed)	G
BLD	Building	G
BUN	Bund	G
BD	Burst Disk	M
CAL	Calibration Vessel, Tube, cylinder etc.	M
CNL	Canal	G
CLP	Canoe Launch Pad	G
CAP	Capacitor Bank	E

Equipment Code	Description	Equipment Designation
CAR	Carousel (bagging)	M
CPT	Catch Pot	M
CPA	Cathodic Protection Rectifier	M
CPB	Cathodic Protection Test Point	E
CER	Cation Exchanger	M
CCM	CCTV Camera	C or T
CEN	Centrifuge	M
CHI	Chain	G
CHB	Chamber/Pit/ Wet Well (includes covered pits)	G
CHN	Channel	G
CHU	Chute	G
CLR	Clarifier	G
CTV	Closed-Circuit Television System	T
COM	Communication Device	C
CMA	Communications Aerial	C or T
CMP	Communications Panel	C or T
CNP	Control Panel and enclosures for Control Equipment	C
NCS	Control System Network Device	C
SVR	Control System Server	C
CVR	Converter	M
CNV	Conveyor - Belt, Slotted Belt or Bucket	M
CTW	Cooling Tower	M
CRN	Crane, Davit, Gantry, Hoist, Pulley, Chain block, Winch	M
CRO	Crossing	C
CRU	Crusher	M
CLV	Culvert	G
CYC	Cyclone	M
CYL	Cylinder	M
DAF	DAFF Saturator	G
DAM	Dam	G
DMW	Dam Wall	G
BLB	De Bubbler	M
DEC	Decanter	M
DESW	High Voltage 3-way Disconnector Earth Switch	E
DHR	Dehumidifier	M
DEL	Delumper	M
DIF	Diffuser Air, Water etc.	M
DIG	Digester	M
DCS	Distributed Process Control System	C
DBR	Distribution Board	E

Equipment Code	Description	Equipment Designation
DRN	Drain / Tundish	G
DWF	Drinking Water Fountain	M
DRM	Drum	M
DWL	Dry Well	G
DYB	Drying Bed/Geotube	G
DCT	Ducting	G
EWI	Early Warning and Intercommunication Systems (EWIS)	T
ESW	Earth Switch	E
EJR	Ejector, Injector or Eductor	M
POL	Electrical Power Pole	E
ERT	Energy Recovery Turbine / Hydro Turbine	E
ENG	Engine Diesel/Petrol/Gas	M
EWS	Engineering Workstation	C
EVP	Evaporator	M
FAN	Fan - includes all fans such as cooling tower fans	M
FDR	Feeder Screw, rotary or other feeders	M
FLT	Filter	M
TFI	Filter Trickling	M
YST	Filter Y-Strain	M
FIP	Fire Indicator Panel	E
FSS	Fire Suppression System	M
FAR	Flame Arrester	M
FTR	Flame Trap	M
FLC	Flocculator	M
GAL	Gallery	G
GDB	Garden Bed	G
GDP	Gas Detection Panel	E
GAT	Gate Fixed Wheel, Stoney, Drum (also see Door)	M
GBX	Gearbox	M
GPO	General Purpose Outlet	E
GEN	Generator	E
GRO	Ground	G
GRD	Guard	G
GRL	Guiderail	G
HS	Hand Switch (Includes ESD)	E
HXR	Heat Exchanger, Ambient Heat Vaporiser	M
HTR	Heater	E
CBH	High Voltage Circuit Breaker	E
HOS	Hose (Includes Fire Hose Reels)	M
WDH	Hose Washdown	M

Equipment Code	Description	Equipment Designation
HWS	Hot Water System	G
HST	H-Strainer	M
HY	Hydrant	M
HYD	Hydraulic Power Pack	M
IGV	Inlet Guide Vane	M
ISL	Isolating Switch Local - Use for field isolators only	E
JB	Junction Box	E
JBC	Junction Box Communications	E
JBE	Junction Box Electrical	E
JBI	Junction Box Instrumentation	E
LFT	Lift System (Includes Passenger or Service Hoist)	M
LIG	Lighting / Lights	E
LSK	Lime Slaker	M
LCP	Local Control Panel/ Station	E
LCS	Local Control Station	E
CBL	Low Voltage or Extra Low Voltage Circuit Breaker	E
MAC	Macerator	M
MHL	Manhole	G
MFM	MF/UF Membrane	M
MIX	Mixer	M
MTR	Motor (Fixed or variable speed)	E
MCC	Motor Control Centre	E
MCR	Muncher	M
OGD	Off Gas Destructor	M
OIP	Operator Interface Panel	C
OPS	Operator Workstation	C
OTP	Optical Termination Points	C
OFL	Overflow	G
OZG	Ozone Generator	M
PVL	Pasteurising Vessel	M
PFR	Power Balance Relay/Power Failure Relay	E
PFC	Power Factor Correction	E
PMR	Power Meter	E
PWS	Power Supply	E
PRS	Press (Dewatering), Belt or screw type	M
VSL	Pressure Vessel - Any pressurised tank or vessel	G
PRN	Printer	C or T
PLC	Programmable Logic Controller (PLC)	C
DMP	Pulsation Dampener	M
PMP	Pump (Centrifugal, Peristaltic, Progressive Cavity, Reciprocating, Rotary, Vertical Turbine)	M

Equipment Code	Description	Equipment Designation
PMD	Pump (Diaphragm, Metering)	M
SBP	Pump (Submersible)	M
SMP	Pump (Sump)	M
VAP	Pump (Vacuum)	M
UWR	Radio/Wireless Transmitter Receiver	C or T
RKE	Rake	M
RDR	Reader/Card Swipe	T
REC	Rectifier Cathodic Protection	E
REG	Regulator	M
RIO	Remote Input/ Output Rack	C
RTU	Remote Telemetry Unit	C
RO	Restriction Orifice	M
RMU	Ring Main Unit	E
ROS	RO Membrane	M
ROC	Roof Cowl	M
RCO	Rotary ventilation	M
SSR	Safety Shower and Eye Wash Stations (combined or separate)	M
SPP	Sample Point	M
SMR	Sampler	M
SAT	Saturator	G
SCP	Scraper	M
SCN	Screen Mechanically Raked, Hand Raked, Step & Trash Racks	M
SCW	Screw	M
SCB	Scrubber	M
SIP	Security Indicator Panel	T
PST	Sedimentation Basin	G
SEP	Separator	G
SSS	Sewer Septic System	M
SFT	Shaft	G
SLO	Silo or Hopper e.g., Lime	G
SK	Sink	G
SKD	Skid	G
SKM	Skimmer (Use for all surface scum removal applications)	M
SLN	Sludge Lagoon / Lagoon / Pond	G
SST	Soft Starter	E
SLR	Solar Power System	E
SPO	Special Purpose Outlet	E
SNZ	Spray nozzle	M
STM	Static Mixer	M
STK	Stockpile	G

Equipment Code	Description	Equipment Designation
SBD	Stopboard (Stop gate)	M
STN	Strainer (excludes Y-Strainer)	M
STU	Structure	G
SUB	Substation	E
SDD	Surge Diverter / Surge Arrester	E
SFF	Surge Filter	E
SWB	Switchboard	E
SCA	Switchgear & Control gear Assembly	E
SGH	Switchgear High Voltage	E
SWR	Switchroom	E
TNK	Tank, Well or Vessel Non-pressurised	G
TAP	Tap	G
PBX	Telecommunications System PABX	T
TCP	Test Point Cathodic Protection	E
TEL	Test Point Electrical	E
TWS	Test Point Water Sampling	G
THB	Thermoblender	M
THK	Thickener	M
TWR	Tower	G
TRF	Transformer	E
TRY	Transformer Yard	E
TRP	Trap	M
TBG	Travelling Bridge	M
TNL	Tunnel	G
UVB	Ultraviolet Bank	M
UPS	Uninterruptible power supply	E
VSD	Variable Speed Drive - Includes VVVFs and controllers	E
VES	Vent Shaft	G
VPN	Ventilation Panel or System	E
VIB	Vibrator, Hammer or Shaker	M
VTR	Voltage Transformer	E
WCP	Washer Compactor	M
WPR	Washpactor	M
WGB	Waste Gas Burner	M
WB	Water Basin	G
WC	Water Closet	G
DIS	Water Dispenser	M
WSL	Weigh Scale	M
WBR	Weighbridge/Load Cells	M
WER	Weir Structure	M

Equipment Code	Description	Equipment Designation
WCN	Wetting Cone	M
WDQ	Withdrawable Quill	M

Appendix E – EEE – Code Lists for Instrumentation Equipment Types – (SENS1 & SENS2)

A guideline of typical Instrument identifications utilised by Seqwater. Refer B-DWG-STD-002 P&ID Legend - Sheet 2 of 5, Codes and Abbreviations for instrument functions and modifiers, based on a modified ISA5.1, noting not all available instrument functions are listed int the table below.

Equipment Code	Description	Equipment Designation
AIT	Analyser Indicating Transmitter	I
AAH	Analyser Alarm High	I
AAHH	Analyser Alarm High High	I
AAL	Analyser Alarm Low	I
AALL	Analyser Alarm Low Low	I
AAU	Analyser Alarm Multi-Function	I
ABA	Audible Alarm	I
AE	Analysing Element	I
AI	Analyser Indicator	I
AS	Analyser Switch	I
AT	Analysing Transmitter	I
CHL	Chlorinator (Automatic or Manual)	I
DE	Density Element	I
DET	Density Sensor Transmitter	I
DI	Density Indicator	I
DIT	Density Indicator Transmitter	I
FA	Flow Alarm	I
FAH	Flow Alarm High	I
FAHH	Flow Alarm High High	I
FAL	Flow Alarm Low	I
FALL	Flow Alarm Low Low	I
FDA	Flow Deviation Alarm	I
FE	Flow Element	I
FI	Flow Indicator	I
FIC	Flow Indicator Control	I
FIH	Flow Indicator High	I
FIL	Flow Indicator Low	I
FIT	Flow Indicator Transmitter	I
FQ	Flow Totaliser	I
FS	Flow Switch	I
FSH	Flow Switch High	I
FSL	Flow Switch Low	I
FT	Flow Transmitter	I
HS	Hand Switch	I
LAD	Level Alarm Deviation	I
LAH	Level Alarm High	I
LAHH	Level Alarm High High	I
LAL	Level Alarm Low	I

Equipment Code	Description	Equipment Designation
LALL	Level Alarm Low Low	I
LC	Level Controller	I
LE	Level Element	I
LI	Level Indicator	I
LIC	Level Indicator Controller	I
LIT	Level Indicator Transmitter	I
LS	Level Switch	I
LSH	Level Switch High	I
LSHH	Level Switch High High	I
LSL	Level Switch Low	I
LSLL	Level Switch Low Low	I
LT	Level Transmitter	I
LY	Level Compute	I
NSH	Torque Switch High	I
NSL	Torque Switch Low	I
PAH	Pressure Alarm High	I
PAHH	Pressure Alarm High High	I
PAL	Pressure Alarm Low	I
PALL	Pressure Alarm Low Low	I
PC	Pressure Controller	I
PDE	Pressure Differential Element	I
PDI	Pressure Differential Indicator	I
PDIT	Differential Pressure Indicator Transmitter	I
PDT	Differential Pressure Transmitter	I
PE	Pressure Element	I
PI	Pressure Indicator	I
PIH	Pressure Indicator High	I
PIL	Pressure Indicator Low	I
PIT	Pressure Indicator Transmitter	I
PS	Pressure Switch	I
PSH	Pressure Switch High	I
PSL	Pressure Switch Low	I
PT	Pressure Transmitter	I
SC	Speed Controller	I
SIC	Speed Indicating Controller	I
SS	Safety Switch	I
TAH	Temperature Alarm High	I
TAL	Temperature Alarm Low	I
TE	Temperature Element	I
TI	Temperature Indicator	I
TIT	Temperature Indicator Transmitter	I
TS	Temperature Switch	I
TSH	Temperature Switch High	I
TSL	Temperature Switch Low	I
TT	Temperature Transmitter	I
TY	Temperature Compute	I
UC	Multivariable Controller	I

Equipment Code	Description	Equipment Designation
UE	Multivariable Element	I
UU	Multivariable Multifunction	I
VA	Visual Alarm	I
VE	Vibration Element	I
VI	Visual Indicator	I
VIA	Visual Indicator Alarm	I
VSH	Vibration Switch High	I
WE	Weigh Element	I
WI	Weight Indicator	I
WIT	Weight Indicator Transmitter	I
WT	Weight Transmitter	I
XA	Churn Alarm	I
XB	Shutdown Status	I
XC	Shutdown Controller	I
YA	Alarm	I
YE	Presence Element (i.e., Moisture in Bearing)	I
ZA	Position Alarm	I
ZC	Position Control	I
ZI	Position Indicator	I
ZIC	Position Indicator Control	I
ZS	Position Switch	I
ZSC	Position Switch Closed	I
ZSO	Position Switch Open	I
ZT	Position Transmitter	I

Notes:

The following Control System tags (e.g. Alarms and soft tags) are issued in accordance with I-SPE-STD-010 Standard Specification - Control Systems Tag Naming.

Appendix F – EEE – Code Lists for Valve Equipment Types – (SENS1 & SENS2)

Manual Valves and Self-Actuated Regulators and Valve types utilised by Seqwater:

Equipment Code	Description	Equipment Designation
3W	3 Way Valve	V
AD	Auto Drain Valve	V
AL	Altitude Valve	V
AN	Angle Valve	V
AV	Air/Gas Release Valve	V
BF	Butterfly Valve	V
BL	Ball Valve	V
CON	Cone Valve	V
DB	Duckbill Valve	V
DI	Directional Valve	V
DL	Damper Louvre Valve	V
DP	Diaphragm Valve	V
FL	Ferrule Valve	V
FR	Flow Regulating Valve	V
FV	Foot Valve	V
GL	Globe Valve	V
GT	Gate Valve	V
KN	Knife Gate Valve / Slide Gate Valve	V
MC	Mill Cock	V
ND	Needle Valve	V
NR	Non-Return Valve	V
PEN [Note 1]	Penstock	V
PG	Pressure Regulating Valve (includes Back Pressure Regulating Valve)	V
PL	Plug Valve	V
PN	Pinch Valve	V
PV	Pressure/Vacuum Valve	V
ROT	Rotary Valve	V
RPZ	Backflow Prevention Device/Reduced Pressure Zone valve	V
SR	Pressure Relief or Safety Valve	V
TSV	Telescopic Valve	V
FCV	Flow Control Valve	V
LCV	Level Control Valve	V
PCV	Pressure Control Valve	V
SOL	Solenoid Actuated Valve	V
XV	Actuated On/Off Valve	V

Control Valves [Note 2]:

Notes:

Note 1: Penstock (PEN) may be given an 'XV' equipment type when used as a control valve.

Note 2: Control valve asset numbers are allocated regardless of valve body type. The valve body type should be captured in the relevant documents, drawings and asset management system as attribute details.

Appendix G – MMM – Code Lists for Piping Materials – (SENS1 & SENS2)

Refer to PLN-00440 Pipelines Asset Class Plan

B-DWG-STD-00005 Standard Drawing P&ID Legend Material Codes provided for cross reference

Group	Sub-Group	Material	Code	STD-00005
Cementitious	Cementitious	Asbestos Cement	ACS	ACS*
Cementitious	Cementitious	Asphalt Concrete	AC	AC
Cementitious	Cementitious	Fibre Reinforced Concrete	FRC	FRC
Cementitious	Cementitious	Reinforced Concrete	RC	RC
Clay	Clay	Vitrified Clay	VCP	VCP
Ferrous	Ferrous	Controlled Low-Strength Material	CISL	
Ferrous	Ferrous	Ductile Iron Cement Lined	DICL	DICL†
Ferrous	Ferrous	Mild Steel Cement Lined	MSCL	MSCL**
Metals	Aluminium	Aluminium Alloy	ALS	AL
Metals	Aluminium	Cast Aluminium	AL	
Metals	Carbon Steel	Carbon Steel	CS	CS**
Metals	Carbon Steel	Carbon Steel Galvanised	CG	CSG**
Metals	Cast Iron	Cast Iron	CI	CI
Metals	Cast Iron	Cast Iron Cement Lined	CICL	CICL†
Metals	Copper	Copper Tube	CU	CU
Metals	Ductile Iron	Ductile Iron	DI	DI
Metals	Ductile Iron	Ductile Iron Cement Lined Class PN20		DICL1
Metals	Ductile Iron	Ductile Iron Cement Lined Class PN35		DICL2
Metals	Duplex Stainless Steel	Stainless Steel Duplex		SSD
Metals	Duplex Stainless Steel	Stainless Steel Duplex	SSD	
Metals	Duplex Stainless Steel	Stainless Steel Schedule 10	SS10	
Metals	Duplex Stainless Steel	Stainless Steel Schedule 40	SS40	
Metals	Duplex Stainless Steel	Stainless Steel Schedule 80	SS80	
Metals	Duplex Stainless Steel	Stainless Steel Seamless	SSS	
Metals	Duplex Stainless Steel	Stainless Steel Welded	SSW	
Metals	Ferrous	Black Steel	BST	BST
Metals	Galvanised	Galvanised Steel Pipe	GAL	GAL
Metals	Hastelloy	Hastelloy – C	HA1	HA1
Metals	Mild Steel	Mild Steel	MS	MS**
Metals	Mild Steel	Mild Steel Cement Lined Schedule 10		MSCL1
Metals	Mild Steel	Mild Steel Cement Lined Schedule 20		MSCL2
Metals	Mild Steel	Mild Steel Cement Lined Schedule 40		MSCL3
Metals	Mild Steel	Mild Steel Epoxy Lined	MSEL	MSEL†
Metals	Mild Steel	Mild Steel Schedule 10		MS1
Metals	Mild Steel	Mild Steel Schedule 20		MS2
Metals	Mild Steel	Mild Steel Schedule 40	MS40	MS3

Group	Sub-Group	Material	Code	STD-00005
Metals	Mild Steel	Mild Steel Schedule 80	MS80	
Metals	Stainless Steel	Stainless Steel	SS	SSL†
Metals	Stainless Steel	Stainless Steel 304		SS1**
Metals	Stainless Steel	Stainless Steel 304 Schedule 10		SS4
Metals	Stainless Steel	Stainless Steel 304 Schedule 40		SS5
Metals	Stainless Steel	Stainless Steel 304 Schedule 80		SS6
Metals	Stainless Steel	Stainless Steel 304 Spiral Welded		SS3
Metals	Stainless Steel	Stainless Steel 304 Tubing		SS2
Metals	Stainless Steel	Stainless Steel 316		SS11**
Metals	Stainless Steel	Stainless Steel 316 Schedule 10		SS14
Metals	Stainless Steel	Stainless Steel 316 Schedule 105		SS17
Metals	Stainless Steel	Stainless Steel 316 Schedule 40		SS15
Metals	Stainless Steel	Stainless Steel 316 Schedule 80		SS16
Metals	Stainless Steel	Stainless Steel 316 Spiral Welded		SS13
Metals	Stainless Steel	Stainless Steel 316 Tubing		SS12
Plastic	PE	Polyethylene	PE	POLY**
Plastic	PVC	Polyvinyl Chloride	PVC	PVC**
Plastics		Line Material Unclassified	L	L
Plastics	ABS	ABS	ABS	ABS**
Plastics	ABS	ABS PN12		ABS3
Plastics	ABS	ABS PN15		ABS4
Plastics	ABS	ABS PN20		ABS5
Plastics	ABS	ABS PN6		ABS1
Plastics	ABS	ABS PN9		ABS2
Plastics	FRP	Fibre Reinforced Plastic	FRP	FRP**
Plastics	FRP	Fibre Reinforced Plastic PN10		FRP2
Plastics	FRP	Fibre Reinforced Plastic PN10		FRP3
Plastics	FRP	Fibre Reinforced Plastic PN10		FRP1
Plastics	FRP	Glass Fiber Reinforced Plastic	GRP	GRP
Plastics	HDPE	High Density Polyethylene	HDPE	HDP**
Plastics	HDPE	High Density Polyethylene PE100 SDR 11	HDPE11	HDP7
Plastics	HDPE	High Density Polyethylene PE100 SDR 13.6	HDPE13.6	HDP8
Plastics	HDPE	High Density Polyethylene PE100 SDR 17	HDPE17	HDP9
Plastics	HDPE	High Density Polyethylene PE100 SDR 21		HDP10
Plastics	HDPE	High Density Polyethylene PE100 SDR 9	HDPE9	HDP6
Plastics	HDPE	High Density Polyethylene PE80 SDR 11		HDP2
Plastics	HDPE	High Density Polyethylene PE80 SDR 13.6		HDP3
Plastics	HDPE	High Density Polyethylene PE80 SDR 17		HDP4
Plastics	HDPE	High Density Polyethylene PE80 SDR 21		HDP5
Plastics	HDPE	High Density Polyethylene PE80 SDR 9		HDP1
Plastics	HDPE	High-Density Polyethylene PE80 SDR 7.4	HDPE7.4	
Plastics	Nylon	Nylon Tube		NYL†
Plastics	PVC	PVC ASuty Series 1	PVC1	

Group	Sub-Group	Material	Code	STD-00005
Plastics	PVC	PVC ASuty Series 2	PVC2	
Plastics	PVC	PVC Schedule 40	PVC40	
Plastics	PVC	PVC Schedule 80	PVC80	
Plastics	PVC	PVC-C	PVCC	
Plastics	PVC	UPVC AS1477 Series 1		PVC1
Plastics	PVC	UPVC AS1477 Series 2		PVC2
Plastics	PVC	UPVC PN 10		PVC13
Plastics	PVC	UPVC PN 12.5		PVC14
Plastics	PVC	UPVC PN 15		PVC15
Plastics	PVC	UPVC PN 16		PVC16
Plastics	PVC	UPVC Schedule 40		PVC11
Plastics	PVC	UPVC Schedule 80		PVC12
Plastics	PVC	UPVC Sewer		PVC3

Notes

* *Refer to Asbestos Management Procedure (PRO-01752) for specific requirements, including requirements for management when identified or removed.*

** Use only if pressure rating is not known

†Class not known / unclassified

Appendix H – XXXX – Code Lists for Nominal Pipe Diameter – (SENS1 & SENS2)

Nominal Pipe sizes (mm)	Code	Nominal Pipe sizes (mm)	Code	Nominal Pipe sizes (mm)	Code
6	0006	125	0125	600	0600
10	0010	150	0150	750	0750
12	0012	200	0200	800	0800
16	0016	225*	NA	900	0900
20	0020	250	0250	1000	1000
25	0025	300	0300	1200	1200
32	0032	350	0350	1350	1350
50	0050	375	0375	1500	1500
65	0065	400	0400	1650	1650
80	0080	450	0450	1800	1800
100	0100	500	0500	2100	2100

* The pipe size DN225 is not acceptable to Seqwater for new infrastructure as noted in WSAA Water Supply Code of Australia, WSA03-2011, Part 1 Planning and Design.

Appendix J – FFF – Code Lists for Fluid Codes – (SENS1 & SENS2)

Fluid codes represent the characteristics of a process stream, including the product, pressure, and temperature conditions at a given point in the process.

It should be noted that fluid codes may change where additional chemicals are introduced, or where process conditions vary. As a result, different fluid codes may apply to the same pipe material over relatively short distances; on some sites, this transition may occur over distances as short as one metre.

Fluid code definitions are provided by the Operations Process Engineer. The Operations Process Engineer shall confirm and clearly delineate fluid code boundaries on Process Flow Diagrams and Piping and Instrumentation Diagrams to support accurate P&ID development, drafting, and downstream drawing mark-ups in accordance with Engineering Standard B-PRO-STD-003 Piping and Instrumentation Diagram Drafting Procedure (PRO-02320).

Code	Type	Name/Descriptor	Definition \ Application
ARW	Water	Aerated Water	Water that has passed through an aeration process for the purposes of oxidation or liberation of volatile compounds.
ACH	Chemical	Aluminium Chlorohydrate	Aluminium chlorohydrate is used to remove dissolved organic matter and colloidal particles present in suspension in water/wastewater treatment.
ALS	Chemical	Aluminium Sulphate (Alum)	Aluminium sulphate is used to remove dissolved organic matter and colloidal particles present in suspension.
AHS	Chemical	Ammonium Hydroxide (Aqueous)	Ammonium hydroxide (aqueous) is used to disinfect water in order to kill or inactivate pathogens which may be present. Chemical ammonia is normally dosed to the water in the form of aqueous ammonia liquid, taking into account the effect of naturally occurring organic nitrogen compounds which may be present in the source water.
AMS	Chemical	Ammonium Sulphate	Ammonium sulphate is used in combination with chlorine dioxide to generate monochloramine.
AMA	Chemical	Anhydrous Ammonia	Anhydrous ammonia is used in combination with chlorine dioxide to generate monochloramine in order to kill or inactivate pathogens which may be present.
ASC	Chemical	Ascorbic Acid	Ascorbic acid systems are used during neutralisation to neutralise an excess of chlorine.
BFW	Water	BAC Filtered Water	Water that has passed through a biologically activated carbon (BAC) filtration process e.g. from outlet of filter to output of next process stage (disinfection, pH correction, fluoridation).
CCD	Chemical	Calcium Chloride	Calcium chloride is added to soften water by removing calcium and magnesium ions, raising the pH level.
LIM	Chemical	Calcium Hydroxide (Lime)	Calcium hydroxide (or limewater) is used to soften water by removing calcium and magnesium ions.

Code	Type	Name/Descriptor	Definition \ Application
			Hydrated lime is added to the water to raise the pH level and precipitate the ions that cause hardness. Calcium hydroxide is a flocculant and a pH neutralizer in water and effluent treatment. It is also dosed in the raw water to raise the pH or alkalinity of the water.
CLD	Chemical	Carbon Dioxide (CO2)	Carbon dioxide is used as a pH neutraliser in the disinfection treatment.
FCO	Chemical	Carbon Dioxide (CO2)	**(Fire)** Carbon dioxide (CO2) is a colourless, odourless, electrically non-conductive gas that is a highly efficient extinguishing agent. It can be used for local application and total flooding systems and is suited to a wide range of applications and hazards.
CEN	Waste	Centrate Waste	Liquid (majority water) recovered from the sludge dewatering process.
CHA	Waste	Chemical Waste	Chemically contaminated drainage (e.g. waste from filter backwash supply water analysers, contaminated with chemical reagents).
CHW	Waste	Chemical Wastewater	Chemically contaminated drainage (e.g. waste from water quality analysers contaminated with chemical reagents) (water only).
CLO	Chemical	Chlorine Dioxide	Chlorine dioxide systems are used during disinfection, referring to the addition of chlorine dioxide (ClO2) in drinking water treatment as a disinfectant, an oxidant or Ph reducer to ensure it has a higher acidity.
CIT	Chemical	Citric Acid	Citric acid is used during disinfection (often CIP). In addition to killing bacteria citric acid is effective at removing calcium deposits, lime, and rust. CIP (Clean-in-place) is a method of cleaning the interior surfaces of pipes, vessels, function equipment, filters and associated fittings without disassembly.
CGW	Water	Coagulated Water	Raw water that has had coagulant added and has been sufficiently mixed for coagulation to take place e.g. from raw water flash mixer to output of next process stage (flocculator outlet).
BGW	Water	Combined BAC/GAC Filtered Water	The combined outlet flow from multiple BAC/GAC filters to output of next process stage (irradiation, ozonation, disinfection, pH correction, fluoridation).
CFW	Water	Combined Filtered Water	The combined outlet flow from multiple filters to output of next process stage (irradiation, ozonation, disinfection, pH correction, fluoridation).
COA	Air	Compressed Air	Compressed air is a gas, or a combination of gases, that has been put under greater pressure than the air in the general environment.
DFS	Waste	DAF Float Sludge Waste	The floating sludge layer drawn off from surface of DAF (dissolved air flotation) process e.g. from draw-off or collection point to next process stage (waste stream, sludge thickener inlet).

Code	Type	Name/Descriptor	Definition \ Application
DVW	Water	DAF Settled Water	Flocculated water that has passed through the dissolved air flotation process for sediment removal e.g. from outlet of DAF chamber to output of next process stage (filtration).
DWS	Waste	Dewatered Sludge Waste	The product of the sludge dewatering process e.g. sludge from centrifuge.
DIE	Fuel	Diesel Fuel	Any liquid fuel used in diesel engines.
DBW	Water	Dosed BAC/GAC Filtered Water	BAC/GAC filtered water that has been dosed with chemicals for pH correction, disinfection, fluoridation, etc. e.g. from chemical injection point, to output of next process stage (treated water storage).
DFW	Water	Dosed Filtered Water	Filtered water that has been dosed with chemicals for pH correction, disinfection, fluoridation, etc. e.g. from chemical injection point, to output of next process stage (treated water storage).
DIW	Water	Dosed Irradiated Water	Irradiated water that has been dosed with chemicals for pH correction, disinfection, fluoridation, etc. e.g. from chemical injection point to output of next process stage (treated water storage).
DRN	Waste	Drainage Waste	A stream from a drain not covered by other fluid codes.
ETH	Fuel	Ethanol (E10) Fuel	Also called ethyl alcohol, grain alcohol, drinking alcohol, or simply alcohol. Ethanol is a volatile, flammable, colourless liquid with a slight characteristic odour.
FCL	Chemical	Ferric Chloride	Ferric chloride systems are used during coagulation, referring to the addition of ferric chloride to water or wastewater treatment as a coagulant or flocculant as well as for odour control, phosphorus removal and hydrogen sulphide minimization.
FBW	Water	Filter Backwash Supply Water	Water stored and transported exclusively for the use of backwashing filters (if water has multiple uses, see Service Water).
FTW	Waste	Filter to Waste	Filtered water that is diverted to waste.
FLW	Water	Filtered Water	Water that has passed through a mono - or multi - media filtration process e.g. from outlet of filter to output of next process stage (irradiation, ozonation, disinfection, pH correction, fluoridation).
FOW	Water	Flocculated Water	Coagulated water that has been gently agitated (hydraulically or mechanically) enough for flocculation to occur e.g. from outlet of flocculator to output of next process stage (clarifier or sedimentation basin).
GFW	Water	GAC Filtered Water	Water that has passed through a granular activated carbon (GAC) filtration process e.g. from outlet of filter to output of next process stage (disinfection, pH correction, fluoridation).
GRW	Water	Ground Water	Water from underground aquifers or streams, usually extracted using a bore.

Code	Type	Name/Descriptor	Definition \ Application
HAG	Chemical	Halon	Used in fire suppression systems.
HFC	Chemical	Heptafluoropropane (FM200)	Used in fire suppression systems in data processing and telecommunication facilities, and in protection of many flammable liquids and gases.
HCL	Chemical	Hydrochloric acid	Hydrochloric acid system is used during disinfection, referring to the addition of hydrochloric acid, a strong pH reducer to water/wastewater treatment. It can also be used for scale removal.
HPS	Chemical	Hydrogen Peroxide	Hydrogen peroxide is used during disinfection and is also used for iron and manganese removal and is often combined with UV treatment for the advanced oxidation process.
HAS	Chemical	Hypochlorous Acid	Hypochlorous acid systems are used during disinfection, referring to the addition of hypochlorous acid for pre-chlorination, however disinfection can also be done just prior to filtration and after sedimentation.
IRW	Water	Irradiated Water	Water that has passed through a UV reactor e.g. from outlet of reactor to output of next process stage (ozonation, disinfection, pH correction, fluoridation).
LSS	Waste	Lime Sludge Waste	Undissolved particulate waste by-product of the lime saturation process e.g. from lime sludge draw-off or collection point to next process stage (waste stream, sludge thickener inlet).
LSR	Waste	Lime Slurry Waste	Free flowing suspension of lime in water – the product of a lime slurry mixer; from mixer outlet to injection point or inlet to next process stage e.g. lime saturator.
LIW	Water	Lime Water	Saturated solution of lime – the product (supernatant) of a lime saturator, from outlet of saturator to lime water injection point.
OXY	Chemical	Liquid Oxygen	A pale blue transparent mobile magnetic liquid obtained by compressing gaseous oxygen and used to help biological wastewater treatment plants by increasing their capacity and by helping to settle upset conditions quickly.
MAG	Chemical	Magnesol	Magnesol systems are used during coagulation, referring to the addition of magnesol, a low molecular weight, highly cationic coagulant, to water and wastewater treatment. It is supplied as a low viscosity liquid.
MEA	Chemical	Methyl Alcohol	Methyl alcohol (also known as methanol) is a chemical with the formula CH3OH (a methyl group linked to a hydroxyl group, often abbreviated MeOH). It is a light, volatile, colourless, flammable liquid with a distinctive alcoholic odour similar to that of ethanol (drinking alcohol). Predominantly used in laboratories.
MON	Chemical	Monochloramine	Monochloramine may be a by-product of drinking-water chlorination, or it may be added to maintain residual disinfection activity in a potable water

Code	Type	Name/Descriptor	Definition \ Application
			distribution system (3,10). It is recognized as a less effective disinfectant than chlorine.
OIL	Hydraulic Fluid	Oil Hydraulic	Oil used as a hydraulic fluid.
OZW	Water	Ozonated Water	Water that has been dosed with ozone prior to other treatment processes occurring.
OZG	Chemical	Ozone Gas	Ozone is a colourless, unstable gas comprising of three oxygen atoms. Ozone has a greater disinfection effectiveness against bacteria and viruses compared to chlorination.
PDM	Chemical	PolyDADMAC	PolyDADMAC (Polydiallyldimethylammonium chloride) is used during coagulation. It is a high performance cationic coagulant polymer used as a flocculation/coagulation aid in water and wastewater treatment.
POL	Chemical	Polyelectrolyte (Polymer)	Polyelectrolyte is used for coagulating and flocculating particles as well as and sludge thickening and dewatering applications in water and wastewater treatment. (Brand name L20).
KMN	Chemical	Potassium Permanganate	Potassium permanganate is used during oxidation. A chemical dosed into a water treatment process that oxidizes dissolved iron, manganese, and hydrogen sulphide into solid particles that are filtered out of the water.
PAC	Chemical	Powder Activated Carbon (PAC)	PAC refers to a powder activated carbon (PAC) dosing or filter system, used to adsorb dissolved organic matter, pesticides, algal toxins and compounds causing taste or odour problems.
POW	Water	Process Water	A process water stream not covered by other specific fluid codes
PRW	Water	Purified Recycled Water	Wastewater recycled and purified at drinking water standard.
RSE	Waste	Raw Sewerage Effluent Waste	Untreated sewage entering a sewage treatment plant.
RAW	Water	Raw Water	Water that is non-potable and is in an untreated and natural state, from the point of raw water intake, up to the first point of treatment e.g. chemical injection, flash mixer.
REW	Water	Reticulated Water	Treated water from within the reticulation network.
SAW	Water	Saturated Water	Service water that has been saturated by air for the purpose of DAFF.
SRW	Water	Service Water	Water used for multiple process related purposes, within the treatment plant e.g. chemical dosing carrier water, wash down, chemical solution batching, backwashing (if exclusively for backwashing, see Backwash Supply Water).
SEW	Water	Settled Water	Flocculated water that has had sufficient detention time for effective sedimentation to occur e.g. from outlet of clarifier or sedimentation basin to output of next process stage (filtration).
SLS	Waste	Sludge Waste	Settled sediment/floc particles, as drawn off from a clarifier, sedimentation basin or base of DAF process e.g. from sludge draw-off or collection

Code	Type	Name/Descriptor	Definition \ Application
			point to next process stage (waste stream, sludge thickener inlet).
SBS	Chemical	Sodium Bisulphite (Bisulphite)	Sodium bisulphite is used during disinfection.
SCB	Chemical	Sodium Carbonate (Soda Ash)	Sodium carbonate is used during disinfection, referring to the addition of sodium carbonate to adjust the alkalinity during water/wastewater treatment to achieve the correct pH.
SCH	Chemical	Sodium Chloride (Salt)	An ionic crystalline chemical compound consisting of equal numbers of sodium and chlorine atoms.
SFS	Chemical	Sodium Fluorosilicate	Sodium fluorosilicate is used during fluoridation. A fluoridation system also requires other components to ensure that the function meets the objectives of providing a suitable fluoride level in the treated water. The system includes monitoring, dosing, storage and bunding.
SHX	Chemical	Sodium Hydroxide (Caustic Soda)	Sodium hydroxide is used during disinfection to adjust the alkalinity during water/wastewater treatment to achieve the correct ph.
NAC	Chemical	Sodium Hypochlorite (Hypo)	Sodium hypochlorite is used during disinfection for water disinfection and oxidation.
WSC	Waste	Solid Cake	Solid cake produced from the sludge dewatering process or centrifuge.
SBW	Water	Stabilised Water	Raw water that has been dosed with CO2 and lime for the purpose of alkalinity adjustment, prior to the addition of coagulant e.g. from CO2 injection point to output of next process stage (coagulant flash mixer).
STW	Water	Stormwater	Water that originates from a precipitation event.
SUP	Water	Supernatant Return	Liquid (majority water) recovered from the sludge thickening and dewatering process, returned to the head of the water treatment plant for blending with raw water for re-treatment.
SUW	Water	Surface Water	Water from the surface of a natural body of water e.g. water from a lake, dam, river or creek. Please note this does not apply to treatment plants or pump stations.
TSS	Waste	Thickened Sludge Supernatant Waste	Liquid (majority water) recovered from the sludge thickening process.
THS	Waste	Thickened Sludge Waste	Concentrated sludge, as drawn off from a sludge thickener e.g. from sludge thickener collection point to output of next process stage (centrifuge, sludge lagoon, geo-tube).
TSE	Water	Treated Sewage Effluent	Water after treatment through a sewage treatment plant.
TRW	Water	Treated Water	Water that has passed through all treatment process stages at a WTP (note: intermittent tertiary treatment may be applied, in rare instances, beyond this point in the treatment process).
TST	Fuel	Two Stroke Fuel	Two stroke fuel is basically unleaded petrol mixed with 2 stroke oil.

Code	Type	Name/Descriptor	Definition \ Application
UNL	Fuel	Unleaded Fuel	Unleaded fuel contains a smaller amount of lead than most fuels so that it produces fewer harmful substances when it is burned.
WBW	Water	Waste Backwash	Product that has been passed in the reverse direction through a filter, for cleaning purposes e.g. from filter backwash outlet to next process stage (waste stream, sludge thickener outlet).
WAS	Waste	Waste Stream	Combined drinking-water-treatment process waste, comprising two or more of; backwash waste, on-line instrument waste, sludge e.g. from waste collection point to output of next process stage (sludge thickener, sludge lagoon).
HYW	Hydraulic Fluid	Water Hydraulic	Water that is used for powering hydraulically actuated equipment e.g. valves.
ACD	Chemical	Sulphuric Acid	Sulfuric acid is used during disinfection and is a pH reducer in water/wastewater treatment. It can also be used for scale removal.
Sample point codes only – not to be used for P&IDs			
CRW	Water	Combined Raw Water	Raw water combined with supernatant (downstream of supernatant return line).
DAW	Water	Dosed Aerated Water	Aerated water dosed with chemical for pH correction, disinfection, fluoridation, etc. e.g. from chemical injection point, to output of next stage (treated water storage).
DRW	Water	Dosed Raw Water	Raw water dosed with chemicals for pH correction, disinfection, etc. e.g. from chemical injection point to output of next process stage (coagulation/filtration).
DSW	Water	Dosed Settled Water	Settled water dosed with chemicals for pH correction, disinfection, etc. e.g. from chemical injection point to output of next stage (filtration).
SED	Solid	Sediment Solid	Sedimentation that occurs in a natural water body that is the solid material that has settled to the bottom of the water body. Excludes sludge from WTP.
SOI	Solid	Soil Solid	Upper layer of earth (samples are collected for example during studies on sources of sediment in water bodies).

Appendix K – D – Code Lists for Equipment Designation – (SENS1)

This Code List applies to SENS1 Only.

Letter	Equipment Designation
C	Control(s)
E	Electrical Plant
G	Civil, Structural and Architectural (includes tanks and vessels)
I	Instrumentation
M	Mechanical Plant
T	Information and communications technology (ICT)
V	Valve

Appendix L – S – Code Lists for Sub-area – (SENS1)

This Code List applies to SENS1 Only.

Sub-Area	Designation	Battery Limits/Guidance on use of Sub-Area
1	Source Water Storage, Inlet Works and Pre-Treatment	Includes source water storage, inlet works, source water pump station, and pre-treatment. Note: source water includes Raw Water and Raw Water Supply
2	Treatment Processes	Includes conventional and advanced treatment processes, e.g., flash mixer and flocculation chamber, sedimentation/clarification, filtration and backwash water as well as Oxidation, Microfiltration, Reverse Osmosis, Neutralisation and Ultra-Violet Treatment Processes
3	Chemical Dosing Systems (includes CIP)	Includes all chemical systems from delivery to storage, batching and dosing
4	Not used (Note 1)	-
5	Not used (Note 2)	-
6	Treated Water Storage, Outlet Works and Distribution	Includes Treated Water Inlet works, storage, pump station, outlet works and distribution. Note: includes Treated Water and Treated Water Supply
7	Residuals and Sludge Treatment and Disposal	Includes sludge dewatering and treatment, storage and disposal. Also includes RO Concentrate treatment, storage and distribution/discharge as well as treated effluent
8	General Services	Includes telecommunication, admin building and facilities, workshop/store/warehouse, lab facilities, civil infrastructure (e.g., roads, walkways, etc.), stormwater, sewerage (not STP), grounds and lighting, safety and security systems
9	Site Services	Includes air, potable water, service water, fire systems, hydraulic oil, control room, switchyard and electrical facilities (low, medium and high voltage), cathodic protection and portable and attractive equipment

Notes:

Note 1: Sub-Area 4 was previously used for Chemical Dosing – Powder. These chemical dosing systems are now incorporated in sub-area 3. Sub-Area 4 is maintained for historical records only.

Note 2: Sub-Area 5 was previously used for Chemical Dosing – Gaseous. These chemical dosing systems are now incorporated in sub-area 3. Sub-Area 5 is maintained for historical records only.

Appendix M – Code Lists for Redundant Equipment Types

The following Equipment Types (EEE) are no longer accepted for new assets but are retained for reference and existing asset numbers.

Equipment Code	Description	New Code to use (if applicable)	Equipment Designation
ACS	Access System		
ALT	(DNU) Altitude Valve	AL	V
AA	(DNU) Audible Alarm	ABA	
BIK	Bike Rack		
BTE	Bus tie		E
BOL	Bollard		
CBM	(DNU) Medium Voltage Circuit Breaker	CBH	
CFG	(DNU) Centrifuge	CEN	
CHA	(DNU) Chlorinator Automatic	CHL	
CHM	(DNU) Chlorinator Manual	CHL	
CMC	(DNU) Communications – Cabling	-	
CBD	Cupboard		
CVL	(DNU) Calibration Vessel	CAL	
DOR	Door		
DPT	(DNU) Differential Pressure Transmitter		I
DCS	(DNU) Distributed Process Control System	-	
ELP	(DNU) Electrical Panel	-	
ZV	(DNU) Emergency Visual	-	I
FEN	Fence		
FOT	Footpath		
FPR	Fall Protection		
FTP	(DNU) Field Termination Panel	-	
FSO	(DNU) Flow Switch Open	-	I
FOB	(DNU) FOBOTS	OTP	
GT1	(DNU) Gate Valve with Right Angle Gear Box	GT	V
GN	(DNU) General Valve	-	V
HMI	(DNU) Human Machine Interface	OIP	
INC	Incomer		E
JBC	(DNU) Junction Box Communications	-	
LG	(DNU) Level Gauge	LI	I
LIT	(DNU) Lighting / Lights	LIG	
LPD	(DNU) Lighting, Power Distribution Board etc.	DBR	
LVD	(DNU) Low Volt Dist. Board with 415V Busbars	DBR	

Equipment Code	Description	New Code to use (if applicable)	Equipment Designation
MCU	(DNU) Flatpack MCU	-	
PLP	(DNU) PLC Panel	-	
PG	(DNU) Pressure Gauge	PI	I
PMP	(DNU) Pressure Monitoring Point	-	I
KU	Lockout Valve Fault	I	
ROA	Road		
ROF	Roof		
ROM	Room		
ROU	(DNU) Router	-	
RTR	(DNU) Router	-	
SCS	(DNU) Serial Device Server	-	
SGM	(DNU) Switchgear Medium Voltage	-	
SWT	(DNU) Switch	-	
SYS	(DNU) Control System. For all software internal points common to more than one equipment	-	
TEP	(DNU) Telemetry Panel	-	
TS	(DNU) Telescopic Valve	TSV	V
UHR	(DNU) Ultra High Frequency Radio	-	
XY	(DNU) Valve Shutdown Relay	-	I
VSH	(DNU) Vent Shaft	VES	
WMT	(DNU) Water Meter	FI or FIT or FT	I