

# **SEQ Water Supply and Sewerage Design & Construction Code (SEQ WS&S D&C Code)**

## **SCHEDULE OF AMENDMENTS**

**Amendment No.1 - August 2014**



## Schedule of Amendments to Sewage Pumping Station Code (Changes from July 2013 Version 1.0 to August 2014 Version 1.1)

SEQ Sewage Pumping Station Code		
Section	Clause	Change
INTRODUCTION	Scope of Code	The changes to the first and second paragraphs of this section were removed as there are no changes to the original WSAA wording except the words 'pressure mains' were replaced by 'rising mains'.
PART 1 - PLANNING AND DESIGN	1.6.1	Updated the reference to the SEQ Standard Drawings.
	2.2	Amended the reference from the 'SEQ D&C design guidelines' to 'SEQ Code Design Criteria'.
	2.5	Reworded the requirements on EIA as below: "The requirements set out in "Code of environmental compliance ERA 63—Sewage treatment activities" shall be complied with. The odour impacts associated within the pumping system and within the receiving sewerage system shall be assessed to the requirements of the guide currently (2013) available at: <a href="http://www.ehp.qld.gov.au/licences-permits/business-industry/pdf/guide-odour-impact-assess-developments.pdf">www.ehp.qld.gov.au/licences-permits/business-industry/pdf/guide-odour-impact-assess-developments.pdf</a> . The design submission for the pumping infrastructure and the receiving system shall be accompanied by the Odour Impact Assessment Report".
	2.7	Added further requirement that: "For design purposes, the system shall operate effectively when 20% of the design properties are connected".
	2.8.1	Corrected the Clause number from 2.8 'SEPTICITY CONTROL' to 2.8.1 'General' as the amendment was made to Clause 2.8.1.
	3.1	Deleted reference to Clause 30.6.
	3.7	Reworded the SEQ-SPs requirements on easement.
	3.9	Added the reference to the SEQ Standard Drawings.
	4.2.2	Added the SEQ-SPs requirements on polyethylene lining of the internal concrete surfaces of wet well, receiving and discharge maintenance holes.
	5.2.3	Deleted the reference to Standard Drawing SEQ-SPS-1205 as this drawing doesn't exist.
	5.2.5	Added the reference to the SEQ Standard Drawings.
	5.3.2	Deleted the reference to the WSAA standard drawings
	5.3.3	Added the reference to the SEQ Standard Drawings.
	5.4.1	Added the reference to the SEQ Standard Drawings.
	5.4.3	Amended the reference from the 'SEQ Water and Sewerage Design Guidelines' to 'SEQ Code Design Criteria'.
5.4.4	Added the following paragraph to this clause: "Level descriptions are shown on the following drawings: QUU area –SEQ-SP-1102-5 and SEQ-SPS-1102-6, GCCC, LCC, RCC and UW areas- SEQ-SPS-1300-2. Actual operational set points will be	

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		defined at commissioning in consultation with the relevant SEQ-SP provider”
	5.4.6	Added the reference to the SEQ Standard Drawings.
	5.5.1	Added the reference to the SEQ Standard Drawings.
	5.6.1	Added the reference to the SEQ Standard Drawings.
	5.6.2.1	Added the following to this clause : For SEQ-SP’s the following standard drawings show typical layouts of pump stations with Emergency Storage (or Additional Storage):- SEQ-SPS-1102-2 to 5 and design requirements as per drawing SEQ-SPS-1402-1.
	5.6.4	Added the reference to the SEQ Standard Drawings.
	5.7	Added the reference to the SEQ Standard Drawings.
	5.8	Added the reference to the SEQ Standard Drawings.
	5.10	Added the reference to the SEQ Standard Drawings.
	5.11	Added the reference to the SEQ Standard Drawings.
	6	Deleted the duplicated paragraph. Updated the reference to the City of Gold Coast Supplementary Specification- “Sewerage Network Water Supply Network Supplementary Mechanical & Electrical Specification”. Updated the reference to Unitywater Electrical Specification- “Specification for Electrical Installations at Network Sites”.
	6.4	Added the reference to the SEQ Standard Drawings.
	7	Updated the reference to the City of Gold Coast Supplementary Specification- “Sewerage Network Water Supply Network Supplementary Mechanical & Electrical Specification”. Updated the reference to Unitywater Electrical Specification- “Specification for Electrical Installations at Network Sites”.
	7.3.1	Added the reference to the SEQ Standard Drawings.
	8	Updated the reference to the City of Gold Coast Supplementary Specification- “Sewerage Network Water Supply Network Supplementary Mechanical & Electrical Specification”. Updated the reference to Unitywater Electrical Specification- “Specification for Electrical Installations at Network Sites”.
	8.1	Added the reference to the SEQ Standard Drawings.
	8.2	Deleted the below sentence that was incorrectly added to Version 1.0. “Change the first two bullet points to paragraphs and renumber the remaining bullet points.”
	8.8.5	Added the reference to the SEQ Standard Drawings.
	9.1.1	Added the reference to the SEQ Standard Drawings.
	9.2.1	Added the reference to the SEQ Standard Drawings.
	9.2.4	Added the reference to the SEQ Standard Drawings.
	9.3.1	Added the reference to the SEQ Standard Drawings.

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9.3.2	Added the reference to the SEQ Standard Drawings.
9.3.5	Added the reference to the SEQ Standard Drawings.
9.3.6	Added the reference to the SEQ Standard Drawings.
9.4	Added the reference to the SEQ Standard Drawings.
10.1.1	Added Unitywater's requirement on installation of a non-return valve and an additional sluice valve as per sketch provided. Also added the reference to the SEQ standard drawings.
10.2.3	Added the reference to the SEQ Standard Drawings.
10.3.1	Amended the reference from the 'SEQ Water and Sewerage Design Guidelines' to 'SEQ Code Design Criteria'.
10.3.5	Updated the references to the "SEQ Code Design Criteria". Typo correction- changed 'section 7' to "Clause 5.7". Amended the third last sentence of this clause as below: "The default maximum allowable velocity of flow in the rising main shall be as defined in the SEQ Code Design Criteria".
10.3.6	Amended the reference from the 'SEQ Water and Sewerage Design Guidelines' to 'SEQ Code Design Criteria'.
10.6.1	Corrected the clause number from 10.6 to 10.6.1 as the amendment is to Cause 10.6.1.
10.7	Added the SEQ-SPs requirement to this clause.
10.9.1	Added the reference to the SEQ Standard Drawings.
10.11.2	Reworded the SEQ-SPs requirement for clarity. Added the reference to the SEQ Standard Drawings.
11.1	Added requirement for a Geotechnical Assessment Report as below: "SEQ SPs require a Geotechnical Assessment Report in all cases regardless of ground conditions for wet wells."
11.1.2	Added requirement for a Geotechnical Assessment Report for rising mains $\leq$ DN 300 where difficult ground conditions exist. Added the reference to the SEQ Standard Drawings.
11.3.4.2	Added the reference to the SEQ Standard Drawings.
11.3.4.4	Added the reference to the SEQ Standard Drawings.
11.3.5.6	Added the reference to the SEQ Standard Drawings.
11.3.6	Added the SEQ-SPs requirement to this clause. Added the reference to the SEQ Standard Drawings.
11.3.7	Amended the first and third paragraph of this Clause. Also updated Table 11.1.
11.3.9.2	Added the reference to the SEQ Standard Drawings.
11.3.10	Added the reference to the SEQ Standard Drawings.
12.1.2	Added the reference to the SEQ Standard Drawings.

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	12.1.5	Deleted the reference to Standard Drawing SPS 1205.
	15.2.1	Replaced the reference to the “SEQ total Asset information package specification” with the “SEQ Asset Information Specification”.
	15.2.9	Deleted the below sentence that was incorrectly added to Version 1.0. “Move existing items (j) and (k) below the bullet points”.
	Appendix B	Added the reference to the SEQ Standard Drawings.
	Appendix E	The requirement for guide rails amended as below: Guide rails – To be stainless steel, and to allow removal of pumps through access cover. Added the reference to the SEQ Standard Drawings.
PART 3 - CONSTRUCTION	20	Updated the reference to the City of Gold Coast Supplementary Specification- “Sewerage Network Water Supply Network Supplementary Mechanical & Electrical Specification”. Updated the reference to Unitywater Electrical Specification- “Specification for Electrical Installations at Network Sites”.
	21	Updated the reference to the City of Gold Coast Supplementary Specification - “Sewerage Network Water Supply Network Supplementary Mechanical & Electrical Specification”. Updated the reference to Unitywater Electrical Specification- “Specification for Electrical Installations at Network Sites”.
	22	Updated the reference to the City of Gold Coast Supplementary Specification- “Sewerage Network Water Supply Network Supplementary Mechanical & Electrical Specification”. Updated the reference to Unitywater Electrical Specification- “Specification for Electrical Installations at Network Sites”. Also added the following note regarding telemetry system: Telemetry system configuration and installation shall be undertaken in accordance with the requirements of the relevant SEQ-SP.
	24	Updated the reference to the City of Gold Coast Supplementary Specification - “Sewerage Network Water Supply Network Supplementary Mechanical & Electrical Specification”. Updated the reference to Unitywater Electrical Specification- “Specification for Electrical Installations at Network Sites”.
	31	Deleted the reference to the Standard Drawings.
	31.1	Added the reference to the SEQ Standard Drawings.
	31.2	Added the reference to the SEQ Standard Drawings.
	31.3	Added the reference to the SEQ Standard Drawings.
	31.4	Added the reference to the SEQ Standard Drawings.
	31.5	Added the reference to the SEQ Standard Drawings.
	31.8	Added the reference to the SEQ Standard Drawings.
31.9	Added the reference to the SEQ Standard Drawings.	
31.10	Added the reference to the SEQ Standard Drawings.	

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	36.1	Corrected the clause number from 36 to 36.1 as the amendment is relevant to Cause 36.1.
	36.3	Added a sentence to clarify the deletion of sub-clauses of this clause.
	36.4.3.1	This clause was amended to be consistent with the requirements stipulated in the SEQ Sewerage Code. So the first two paragraphs of this clause were replaced with the following: "Vacuum test all concrete MHs regardless cast in-situ MHs or precast MHs". Also Table 36.4 was deleted.
	36.5.1	The hydrostatic testing requirement was modified as below: Test, report and accept the test in accordance with Section 6 of AS/NZS 2566.2:2002 using the test method appropriate for the pipe material as nominated in this AS/NZS standard i.e. Clause 6.3.4.1 (method M4) for DI and PVC pipes and Clause 6.3.4.2 (method M5) for PE pipes.
	36.5.2	Added the following requirement to this clause: "The STP shall also be min 900kPa"
	36.5.3	Deleted the content of this clause.
	36.5.4	Deleted the content of this clause.
	36.5.5	Deleted the content of this clause.
<b>PART 4 - DRAWINGS</b>	41	Deleted the listed WSA Standard Drawing.

<b>SEQ Sewage Pumping Station Standard Drawings</b>	
<b>Drawing Number</b>	<b>Change</b>
SEQ-SPS-INDEX-01 and SEQ-SPS-INDEX-02	The access cover drawings' title was changed. Index drawings have been updated against the version No.
SEQ-SPS-1101-2	Minor corrections.
SEQ-SPS-1102-4, SEQ-SPS-1102-5, SEQ-SPS-1102-6	The following amendments were made to these drawings: Minor corrections; Updated materials to SS316 for parts within pump well; and Re-arranged small station requirements into SEQ-SPS-1102-6 with cross references on other drawings.
SEQ-SPS-1300-1	Amended Notes 4 and 7; Showed the min distance between the access to the well and the fall-arrest anchorage point; and Minor corrections of the notes next to "TYPICAL PLAN (WITH ROOF SLAB) drawing." Added the following text to reinforce the inclusion of extension spindles where required for valves in SPS valve pits. "FOR VALVE EXTENSION SPINDLES REFER CLAUSE 9.3.2 SEQ-SPS CODE."

SEQ-SPS-1300-2 and 3	Amended Note 12 of SEQ-SPS-1300-2; Removed the lower brackets; and Added a note "NO BRACKET BELOW THE HIGH LEVEL ALRAM" next to the middle bracket.
SEQ-SPS-1300-4	Deleted the word "Jumbo" in annotations; A note added that "no ladder for GCCC, LCC & LCC"; and 900 Square mm concrete slab shown next to access cover.
SEQ-SPS-1300-12	The drawing reference in Note 2 was corrected.
SEQ-SPS-1301-1, SEQ-SPS-1301-2, SEQ-SPS-1301-3, SEQ-SPS-1301-4	The following amendment made to these drawings: Minor typo/reference corrections; and Reinstated the QUU survey plaque reference into drawing SEQ-SPS-1301-1 to meet QUU requirements.
SEQ-SPS-1304-0 to SEQ-SPS-1304-17	The access cover drawings' title was changed.
SEQ-SPS-1400-1, SEQ-SPS-1401-1	Drafting improvement; and Upgraded materials to SS316.
SEQ-SPS-1401-2	Upgraded materials to SS316 (changed galvanised steel backing ring, galvanised steel bolts and butt weld stub flange to SS316 backing ring, SS316 Bolts and butt weld full face flange).
SEQ-SPS-1402-1	Updated Notes G8 and G14.
SEQ-SPS-1405-2	Updated Note 5; and Minor reference correction (the drawing reference to Note 6 amended to Note 5)
SEQ-SPS-1406-1	This drawing is not applicable to QUU. So cross on QUU box was turned on.
SEQ-SPS-1407-2	Upgraded materials to SS316 (changed galvanised steel backing ring, galvanised steel bolts and butt weld stub flange to SS316 backing ring, SS316 Bolts and butt weld full face flange). In Note 5, changed butt welded stub flange to butt welded full face flange; Added a new drawing showing "Alternate Through Pipe seal".
SEQ-SPS-1508-1	Minor typo/reference correction; Put a cross on "QUU". That means this drawing is not applicable to QUU.
SEQ-SPS-1508-2	Inserted a detail of the notice plate (similar to the water drawing as SEQ-WAT-1300-2); Amended the size of the notice plate to keep it consistent; Minor typo/reference correction.
SEQ-SPS-1509-1	Updated with some drafting improvement and reference corrections.
SEQ-SPS-1605-1	Minor typo/reference correction.