BESS Alinta Wagerup Peaking Power Station

Field Inspection Checklist – Drainage installation

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Document Information

Checklist title	**Drainage installation**
Checklist No	RR-SEPD-BESS-FIC-005
Lot Description	
Revision no.	01
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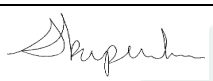
Description of Changes	First Issue

Document Review

Prepared by:			
Responsibility	**Name**	**Signature**	**Date (DD/MM/YYYY)**
Drafted by (Engineer)	Juan Orozco		13/03/2025
Reviewed by (Supervisor)	Craig Stein		13/03/2025
Approved by (Manager)	Artur Krupinski		14/03/2025

Part 1 – Preliminaries (photos where applicable)						
Inspection/Test item		**Acceptance Criteria**	**Specifications/Drawings Reference**	**(Yes/No/NA)**	**Initial & Date**	
					ROBAR	**SEPD**
1.1	Review of approved construction drawings and specifications	All drawings and specifications approved and up to date	WBS-SS-CI-SPC-006			
1.2	Verification of permits	All relevant permits (GDA/GDP) in place	GDA/GDP			
1.3	Site access and safety preparation	Site access cleared and made safe	WBS-SS-CI-SPC-006			
1.4	Safety inductions and toolbox talks	All personnel inducted; safety briefings completed	Induction record			
1.5	Environmental controls in place	Dust, noise, and sediment barriers installed and functioning	SEPD environmental requirements			

Part 2 – Excavation and trenching (photos where applicable)						
Inspection Acceptance		**Acceptance Criteria**	**Specifications/Drawings Reference**	**(Yes/No/NA)**	**Initial & Date**	
2.1	Trench depth and width comply with design	Set-out verified and matches IFC drawings	Site IFC Drawings AS/NZS 3500			
2.2	Stable trench walls (benching, battering)	Trenches deeper than 1.5m require benching, or battering unless certified by a geotechnical engineer.	WBS-SS-CI-SPC-006 AS 4744			
2.3	Pipes inspected for defects before installation	Material certs from manufacturer and visual inspection Material to align with design drawings and load rating	Manufacturer certifications			
2.4	No water accumulation in trenches	No standing water or excessive moisture inside the trench.	AS/NZS 3500			
2.5	Exclusion zones around excavation established	Proper barricades and signage placed around excavation area.	AS 1742			
2.6	Spoil stockpiles located at least 1m from trench edges	Stockpiles away from excavation to maintain safety of batters	WBS-SS-CI-SPC-0006			
2.7	Access and egress (ladders, steps) provided for trenches deeper than 1.2m	Access and egress for each trench.	WHS			
Part 3 – Bedding & Pipe Installation (photos where applicable)						
Inspection Acceptance		**Acceptance Criteria**	**Specifications/Drawings Reference**	**(Yes/No/NA)**	**Initial & Date**	
3.1	Correct bedding material used (sand, gravel, etc.)	Material complies with particle size, moisture content, MMDD	WBS-SS-CI-SPC-0006 Test material results			
3.2	Bedding compacted to required density	Layers placed in maximum 300mm (loose) thickness	WBS-SS-CI-SPC-0006			
3.3	Pipes and materials inspected for defects before installation	Installed to design grade ±10mm and alignment within 5mm tolerance.	AS/NZS 3500			
3.4	Pipes laid at correct grade and alignment	Levels and grading match design tolerances (+/- 20mm)	WBS-SS-CI-SPC-0006, Survey Report			
3.5	Correct pipe jointing method used (rubber ring, solvent weld, etc.)	Joints must be fully engaged and sealed per manufacturer specifications	Manufacturer specifications			
Part 4 – Backfilling and compaction (photos where applicable)						
Inspection Acceptance		**Acceptance Criteria**	**Specifications/Drawings Reference**	**(Yes/No/NA)**	**Initial & Date**	
4.1	Initial backfill material placed evenly around pipes	Site-won material approved by geotechnical engineer	Geotechnical report AS/NZS 3725			
4.2	No large rocks or debris in backfill	No rocks or debris in backfill	WBS-SS-CI-SPC-0006			
4.3	Backfilling in controlled layers (300mm lifts)	Backfill in uniform layers of maximum 300mm thickness	WBS-SS-CI-SPC-0006 Drainage drawings			
4.4	Backfill shall be placed to a depth of 300mm above collars of pipes or conduits	Minimum 300mm above collars of pipes	WBS-SS-CI-SPC-0006			
4.5	Compaction tests performed and passed (Proctor Density, NDM, etc.)	Compacted to 93% MMDD	WBS-SS-CI-SPC-0006 AS 1289 TQ # 66			

4.6	Surface reinstated as per project specs (concrete, asphalt, topsoil)	Backfill to match existing ground levels with ±10mm tolerance.	IFC drawings			
Part 5 – Final inspections and acceptance (photos where applicable)						
Inspection Acceptance		**Acceptance Criteria**	**Specifications/Drawings Reference**	**(Yes/No/NA)**	**Initial & Date**	
5.1	Air pressure test	The pipe system must not lose more than a defined amount of pressure within the test duration. PVC - 25 kPa (3.5 psi) – pressure drop ≤3.5 kPa (0.5 psi) in 5 min. Concrete - 25-50 kPa (3.5-7.0 psi) – pressure drop ≤10% drop in 5 min.	WBS-SS-CI-SPC-0006 AS 4033.2			
5.1	As-built survey verification	As-built levels and layout match design	As-Built Drawings Survey Report			
5.2	Removal of temporary works	All temporary structures, barriers, and access points removed	Site inspection			
5.3	Final inspection sign-off	All drainage activities completed and accepted	WBS-SS-CI-SPC-0006			

Document Sign-off

Prepared by:			
Responsibility	**Name**	**Signature**	**Date (DD/MM/YYYY)**
ROBAR (NER Engineer)			
SEPD (Engineer)			