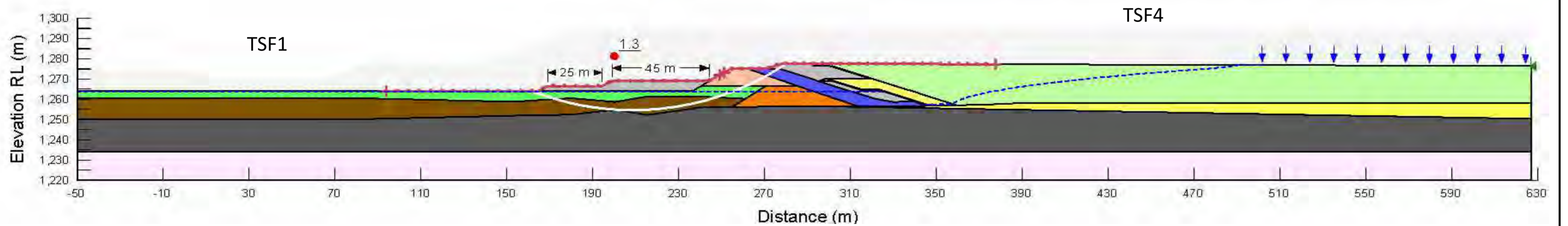


Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Tau/Sigma Ratio	Minimum Shear Strength (kPa)	Undrained Shear Strength (kPa)
	Slope_bedrock	Undrained (Phi=0)	24						450
	Slope_Clay starter/face_Post seismic	SHANSEP	19				0.44	10	
	Slope_Clayey Tailings_Post seismic	SHANSEP	20				0.09	10	
	Slope_Compacted Tailings Embankment_Long term	Mohr-Coulomb	19	10	30	0			
	Slope_Dredge deposit (MH)	Mohr-Coulomb	21	0	30	0			
	Slope_Earthfill (CL-ML)	Mohr-Coulomb	21	40	5	0			
	Slope_Embankment Fill (rockfill)	Mohr-Coulomb	21	0	40	0			
	Slope_Foundation (residual soil_clayey silt_MH)_long term	Mohr-Coulomb	20	0	29	0			
	Slope_Loose tailings_Post seismic	SHANSEP	19				0.07	10	
	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0			
	Slope_Tailings (inner sandy silt)_Post seismic	SHANSEP	14.1				0.08	10	
	Slope_Tailings (outer beach sand)_Post seismic	Mohr-Coulomb	16	0	22.4	0			



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Notes:

Disclaimer: Buttressing on TSF1 side shall be subject to additional assessment of the loading rate to support dissipation of pore water pressures

Client: Talison Lithium Pty Ltd

Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m

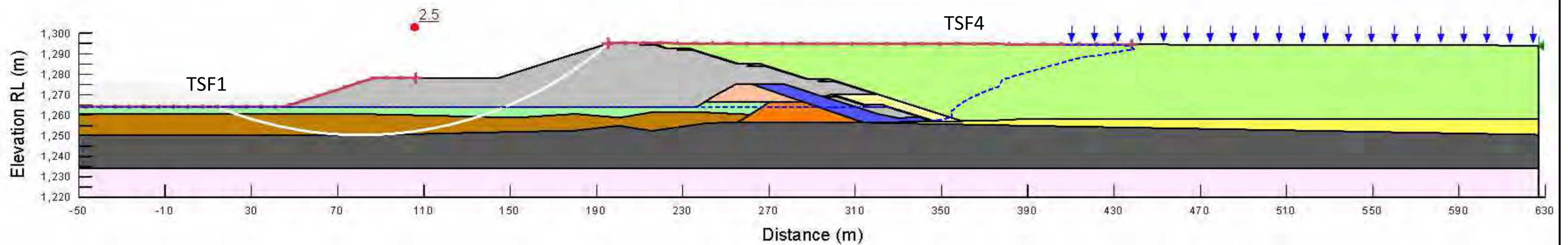
Section: Cell 1 interfase with TSF1 - Section D RL 1277.5 m

Case: Post Seismic Circular

Project No.: 12685165
Revision: A
Date: 30/01/2025

Figure 30

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Undrained Shear Strength (kPa)
	Slope_bedrock	Undrained (Phi=0)	24				450
	Slope_Clay starter/face_Longterm	Mohr-Coulomb	19	0	28	0	
	Slope_Clayey Tailings_Longterm	Mohr-Coulomb	20	0	20	0	
	Slope_Compacted Tailings Embankment_Long term	Mohr-Coulomb	19	10	30	0	
	Slope_Dredge deposit (MH)	Mohr-Coulomb	21	0	30	0	
	Slope_Earthfill (CL-ML)	Mohr-Coulomb	21	40	5	0	
	Slope_Embankment Fill (rockfill)	Mohr-Coulomb	21	0	40	0	
	Slope_Foundation (residual soil_clayey silt_MH)_long term	Mohr-Coulomb	20	0	29	0	
	Slope_Loose tailings	Mohr-Coulomb	19	0	25	0	
	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0	
	Slope_Tailings (inner sandy silt)_Longterm	Mohr-Coulomb	14.1	0	26	0	
	Slope_Tailings (outer beach sand)_Longterm	Mohr-Coulomb	16	0	28	0	



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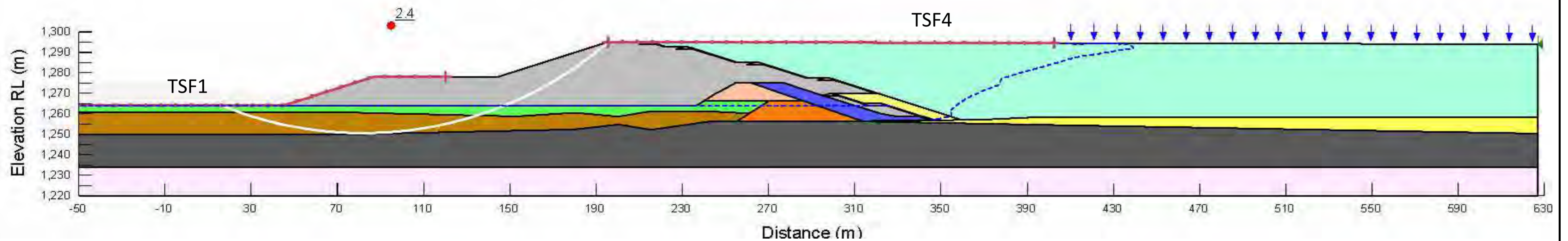
Notes:

Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Cell 1 interfase with TSF1 - Section D RL 1295 m
 Case: Long Term Circular

Project No. 12685165
 Revision A
 Date 30/01/2025

Figure 31

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Tau/Sigma Ratio	Minimum Shear Strength (kPa)	Undrained Shear Strength (kPa)
	Slope_bedrock	Undrained (Phi=0)	24						450
	Slope_Clay starter/face_Post static	SHANSEP	19				0.55	10	
	Slope_Clayey Tailings_Longterm	Mohr-Coulomb	20	0	20	0			
	Slope_Compacted Tailings Embankment_Long term	Mohr-Coulomb	19	10	30	0			
	Slope_Dredge deposit (MH)	Mohr-Coulomb	21	0	30	0			
	Slope_Earthfill (CL-ML)	Mohr-Coulomb	21	40	5	0			
	Slope_Embankment Fill (rockfill)	Mohr-Coulomb	21	0	40	0			
	Slope_Foundation (residual soil_clayey silt_MH)_long term	Mohr-Coulomb	20	0	29	0			
	Slope_Loose tailings_Post seismic	SHANSEP	19				0.07	10	
	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0			
	Slope_Tailings (inner sandy silt)_Post static	SHANSEP	14.1				0.08	5	
	Slope_Tailings (outer beach sand)_Post static	Mohr-Coulomb	18	0	28	0			



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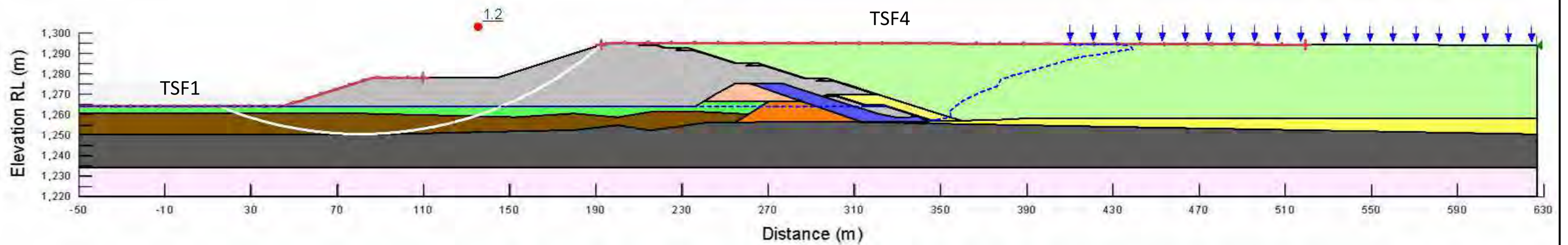
Notes:

Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Cell 1 interfase with TSF1 - Section D RL 1295 m
 Case: Post Static Circular

Project No. 12685165
 Revision A
 Date 30/01/2025

Figure 32

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Tau/Sigma Ratio	Minimum Shear Strength (kPa)	Undrained Shear Strength (kPa)
	Slope_bedrock	Undrained (Phi=0)	24						450
	Slope_Clay starter/face_Post seismic	SHANSEP	19				0.44	10	
	Slope_Clayey Tailings_Post seismic	SHANSEP	20				0.09	10	
	Slope_Compacted Tailings Embankment_Long term	Mohr-Coulomb	19	10	30	0			
	Slope_Dredge deposit (MH)	Mohr-Coulomb	21	0	30	0			
	Slope_Earthfill (CL-ML)	Mohr-Coulomb	21	40	5	0			
	Slope_Embankment Fill (rockfill)	Mohr-Coulomb	21	0	40	0			
	Slope_Foundation (residual soil_clayey silt_MH)_long term	Mohr-Coulomb	20	0	29	0			
	Slope_Loose tailings_Post seismic	SHANSEP	19				0.07	10	
	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0			
	Slope_Tailings (inner sandy silt)_Post seismic	SHANSEP	14.1				0.08	10	
	Slope_Tailings (outer beach sand)_Post seismic	Mohr-Coulomb	16	0	22.4	0			



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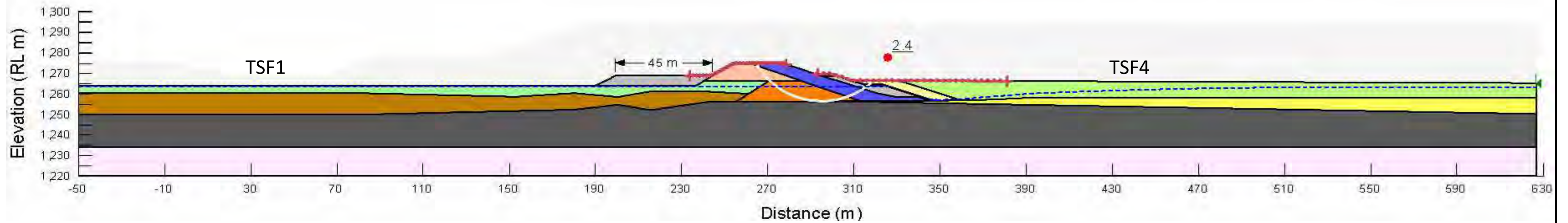
Notes:

Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Cell 1 interfase with TSF1 - Section D RL 1295 m
 Case: Post Seismic Circular

Project No. 12685165
 Revision A
 Date 30/01/2025

Figure 33

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Undrained Shear Strength (kPa)
	Slope_bedrock	Undrained (Phi=0)	24				450
	Slope_Clay starter/face_Longterm	Mohr-Coulomb	19	0	28	0	
	Slope_Clayey Tailings_Longterm	Mohr-Coulomb	20	0	20	0	
	Slope_Compacted Tailings Embankment_Long term	Mohr-Coulomb	19	10	30	0	
	Slope_Dredge deposit (MH)	Mohr-Coulomb	21	0	30	0	
	Slope_Earthfill (CL-ML)	Mohr-Coulomb	21	40	5	0	
	Slope_Embankment Fill (rockfill)	Mohr-Coulomb	21	0	40	0	
	Slope_Foundation (residual soil_clayey silt_MH)_long term	Mohr-Coulomb	20	0	29	0	
	Slope_Loose tailings	Mohr-Coulomb	19	0	25	0	
	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0	
	Slope_Tailings (inner sandy silt)_Longterm	Mohr-Coulomb	14.1	0	26	0	
	Slope_Tailings (outer beach sand)_Longterm	Mohr-Coulomb	16	0	28	0	



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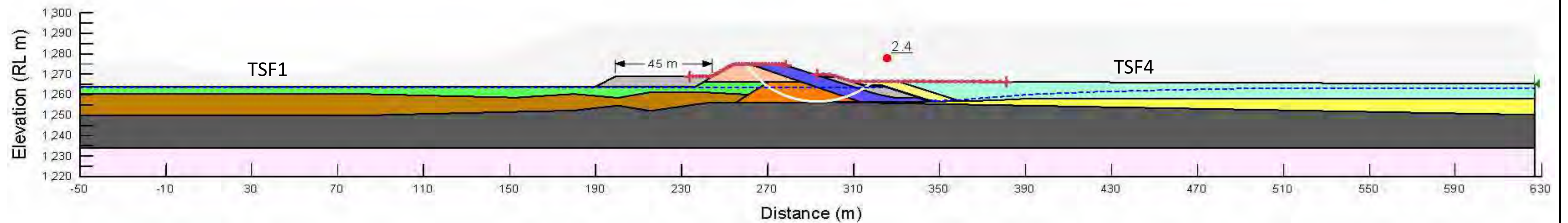
Notes:

Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Cell 1 interfase with TSF1 - Section D
 Case: Long Term Circular

Project No. 12685165
 Revision A
 Date 30/01/2025

Figure 34

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Tau/Sigma Ratio	Minimum Shear Strength (kPa)	Undrained Shear Strength (kPa)
	Slope_bedrock	Undrained (Phi=0)	24						450
	Slope_Clay starter/face_Post static	SHANSEP	19				0.55	10	
	Slope_Clayey Tailings_Longterm	Mohr-Coulomb	20	0	20	0			
	Slope_Compacted Tailings Embankment_Long term	Mohr-Coulomb	19	10	30	0			
	Slope_Dredge deposit (MH)	Mohr-Coulomb	21	0	30	0			
	Slope_Earthfill (CL-ML)	Mohr-Coulomb	21	40	6	0			
	Slope_Embankment Fill (rockfill)	Mohr-Coulomb	21	0	40	0			
	Slope_Foundation (residual soil_clayey silt_MH)_long term	Mohr-Coulomb	20	0	29	0			
	Slope_Loose tailings_Post seismic	SHANSEP	19				0.07	10	
	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0			
	Slope_Tailings (inner sandy silt)_Post static	SHANSEP	14.1				0.08	5	
	Slope_Tailings (outer beach sand)_Post static	Mohr-Coulomb	16	0	28	0			



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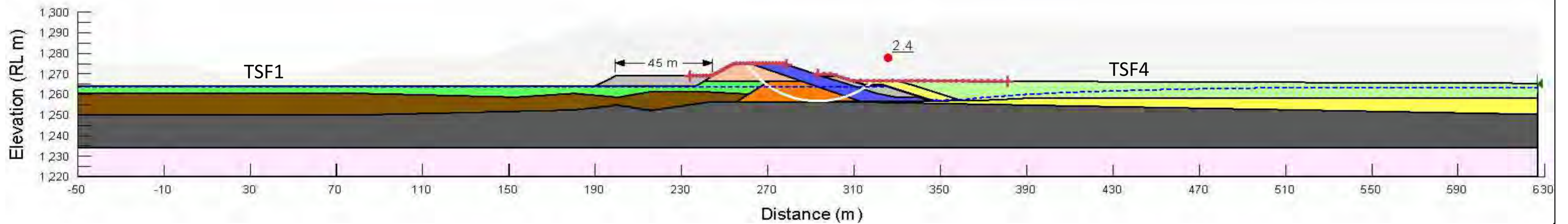
Notes:

Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Cell 1 interfase with TSF1 - Section D
 Case: Post Static Circular

Project No. 12685165
 Revision A
 Date 30/01/2025

Figure 35

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Tau/Sigma Ratio	Minimum Shear Strength (kPa)	Undrained Shear Strength (kPa)
Light Purple	Slope_bedrock	Undrained (Phi=0)	24						450
Light Red	Slope_Clay starter/face_Post seismic	SHANSEP	19				0.44	10	
Brown	Slope_Clayey Tailings_Post seismic	SHANSEP	20				0.09	10	
Light Orange	Slope_Compacted Tailings Embankment_Long term	Mohr-Coulomb	19	10	30	0			
Yellow	Slope_Dredge deposit (MH)	Mohr-Coulomb	21	0	30	0			
Orange	Slope_Earthfill (CL-ML)	Mohr-Coulomb	21	40	5	0			
Blue	Slope_Embankment Fill (rockfill)	Mohr-Coulomb	21	0	40	0			
Dark Grey	Slope_Foundation (residual soil_clayey silt_MH)_long term	Mohr-Coulomb	20	0	29	0			
Light Green	Slope_Loose tailings_Post seismic	SHANSEP	19				0.07	10	
Grey	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0			
Light Green	Slope_Tailings (inner sandy silt)_Post seismic	SHANSEP	14.1				0.08	10	
Yellow	Slope_Tailings (outer beach sand)_Post seismic	Mohr-Coulomb	16	0	22.4	0			



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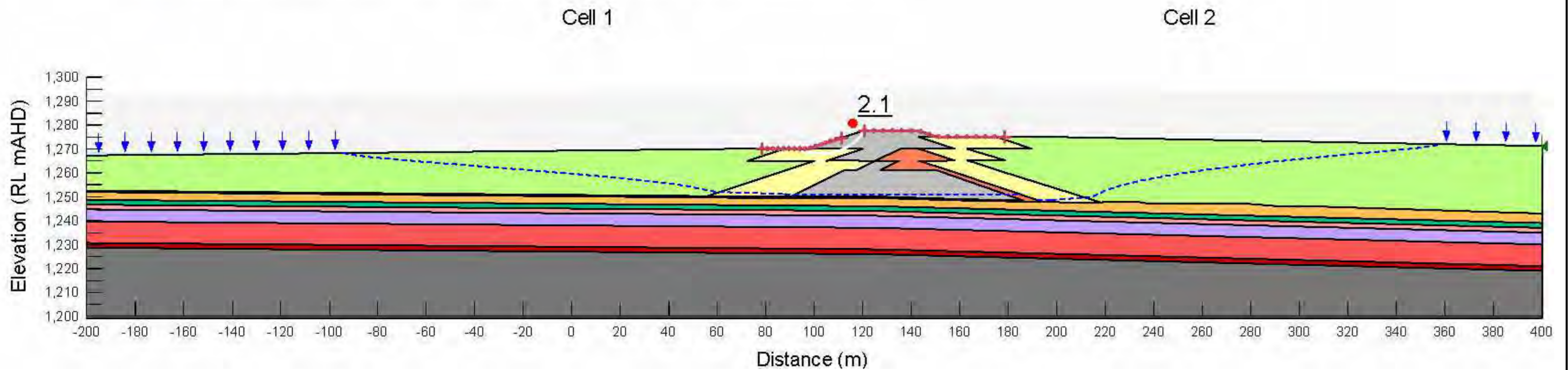
Notes:

Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Cell 1 interfase with TSF1 - Section D
 Case: Post Seismic Circular

Project No. 12685165
 Revision A
 Date 30/01/2025

Figure 36

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Shear/Normal Strength Fn.	Undrained Shear Strength (kPa)
Grey	Slope_Bedrock (Dolerite)	Undrained (Phi=0)	24					500
Orange	Slope_Clay starter/face_Longterm	Mohr-Coulomb	19	0	28	0		
Yellow	Slope_F1 - laterite - sandy gravel_Longterm	Shear/Normal Fn.	21			0	F1_Longterm	
Green	Slope_F2 - Laterised saprolite_Longterm	Shear/Normal Fn.	20			0	F2_Longterm	
Pink	Slope_F3 - Pallid saprolite_Longterm	Shear/Normal Fn.	17			0	F3_Longterm	
Purple	Slope_F4 - soft layer_Longterm	Shear/Normal Fn.	17			0	F4_Longterm	
Red	Slope_F5 - Saprolite_Longterm	Shear/Normal Fn.	18			0	F5_Longterm	
Dark Red	Slope_F6 - Extremely weathered rock_Longterm	Shear/Normal Fn.	21			0	F6_Longterm	
Light Grey	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0		
Light Green	Slope_Tailings (inner sandy silt)_Longterm	Mohr-Coulomb	14.1	0	26	0		
Yellow-Green	Slope_Tailings (outer beach sand)_Longterm	Mohr-Coulomb	16	0	28	0		



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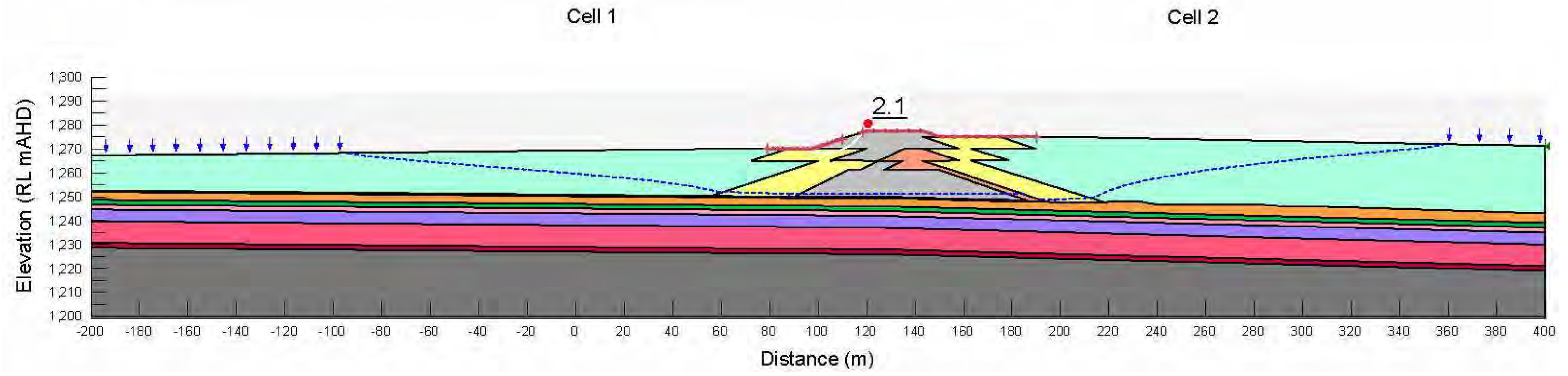
Notes:

Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Section E
 Cell 1 RL 1270 m Cell 2 RL 1275 m
 Case: Long Term Circular

Project No. 12685165
 Revision A
 Date 30/01/2025

Figure 37

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Shear/Normal Strength Fn.	Tau/Sigma Ratio	Minimum Shear Strength (kPa)	Undrained Shear Strength (kPa)
Grey	Slope_Bedrock (Dolerite)	Undrained (Phi=0)	24							500
Orange	Slope_Clay starter/face_Post static	SHANSEP	19					0.55	10	
Light Orange	Slope_F1 - laterite - sandy gravel_Post static	Shear/Normal Fn.	21			0	F1_Post static			
Green	Slope_F2 - Laterite s aprolite_Post static	Shear/Normal Fn.	20			0	F2_Post static			
Pink	Slope_F3 - Pallid s aprolite_Post static	SHANSEP	17					0.33	10	
Purple	Slope_F4 - soft layer_Post static	SHANSEP	17					0.41	10	
Red	Slope_F5 - Saprolite_Post static	SHANSEP	18					0.43	10	
Dark Red	Slope_F6 - Extremely weathered rock_Post static	Shear/Normal Fn.	21			0	F6_Post static			
Light Grey	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0				
Light Green	Slope_Tailings (inner sandy silt)_Post static	SHANSEP	14.1					0.08	5	
Yellow	Slope_Tailings (outer beach sand)_Post static	Mohr-Coulomb	16	0	28	0				



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Notes:

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Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Section E
 Cell 1 RL 1270 m Cell 2 RL 1275 m
 Case: Post Static Circular

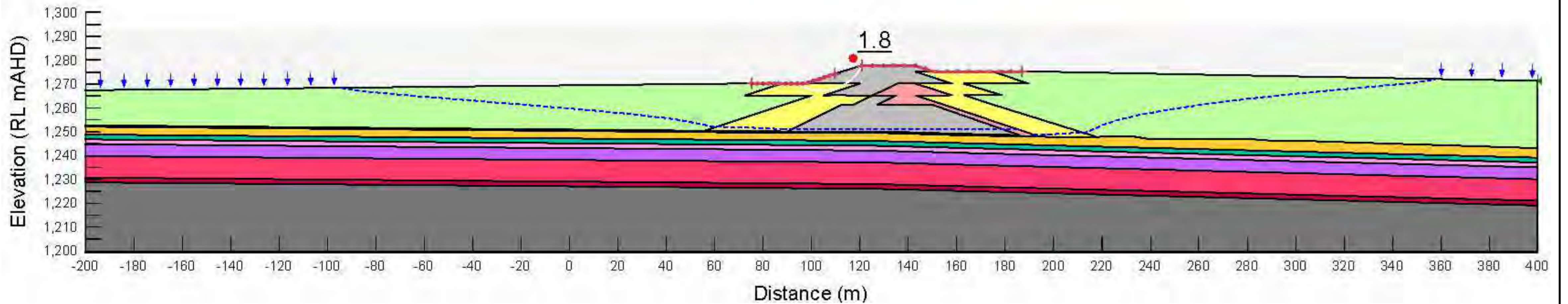
Project No. 12685165
 Revision A
 Date 30/01/2025

Figure 38

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Shear/Normal Strength Fn.	Tau/Sigma Ratio	Minimum Shear Strength (kPa)	Undrained Shear Strength (kPa)
Grey	Slope_Bedrock (Dolerite)	Undrained (Phi=0)	24							500
Light Red	Slope_Clay starter/face_Post seismic	SHANSEP	19					0.44	10	
Yellow	Slope_F1 - laterite - sandy gravel_Post seismic	Shear/Normal Fn.	21			0	F1_Post seismic			
Teal	Slope_F2 - Laterised saprolite_Post seismic	Shear/Normal Fn.	20			0	F2_Post seismic			
Pink	Slope_F3 - Pallid saprolite_Post seismic	SHANSEP	17					0.264	10	
Purple	Slope_F4 - soft layer_Post seismic	SHANSEP	17					0.328	10	
Red	Slope_F5 - Saprolite_Post seismic	SHANSEP	18					0.344	10	
Dark Red	Slope_F6 - Extremely weathered rock_Post seismic	Shear/Normal Fn.	21			0	F6_Post seismic			
Light Grey	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0				
Light Green	Slope_Tailings (inner sandy silt)_Post seismic	SHANSEP	14.1					0.08	10	
Yellow	Slope_Tailings (outer beach sand)_Post seismic	Mohr-Coulomb	16	0	22.4	0				

Cell 1

Cell 2



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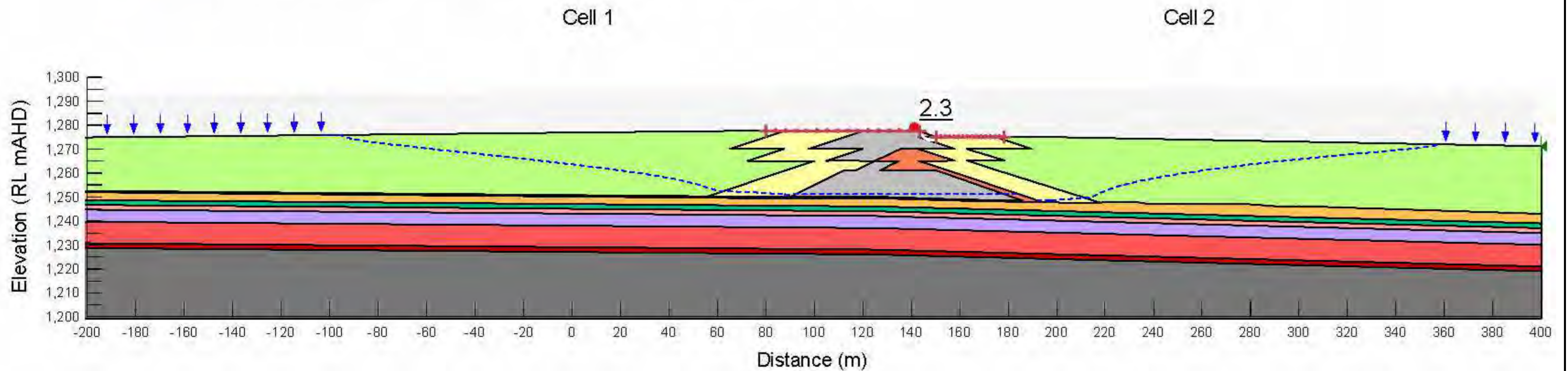
Notes:

Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Section E
 Cell 1 RL 1270 m Cell 2 RL 1275 m
 Case: Post Seismic Circular

Project No. 12685165
 Revision A
 Date 30/01/2025

Figure 39

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Shear/Normal Strength Fn.	Undrained Shear Strength (kPa)
Grey	Slope_Bedrock (Dolerite)	Undrained (Phi=0)	24					500
Orange	Slope_Clay starter/face_Longterm	Mohr-Coulomb	19	0	28	0		
Yellow	Slope_F1 - laterite - sandy gravel_Longterm	Shear/Normal Fn.	21			0	F1_Longterm	
Green	Slope_F2 - Laterised saprolite_Longterm	Shear/Normal Fn.	20			0	F2_Longterm	
Red	Slope_F3 - Pallid saprolite_Longterm	Shear/Normal Fn.	17			0	F3_Longterm	
Purple	Slope_F4 - soft layer_Longterm	Shear/Normal Fn.	17			0	F4_Longterm	
Dark Red	Slope_F5 - Saprolite_Longterm	Shear/Normal Fn.	18			0	F5_Longterm	
Dark Red	Slope_F6 - Extremely weathered rock_Longterm	Shear/Normal Fn.	21			0	F6_Longterm	
Grey	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0		
Light Green	Slope_Tailings (inner sandy silt)_Longterm	Mohr-Coulomb	14.1	0	26	0		
Yellow	Slope_Tailings (outer beach sand)_Longterm	Mohr-Coulomb	16	0	28	0		



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Notes:

Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Section E
 Cell 1 RL 1277.5 m Cell 2 RL 1275 m
 Case: Long Term Circular

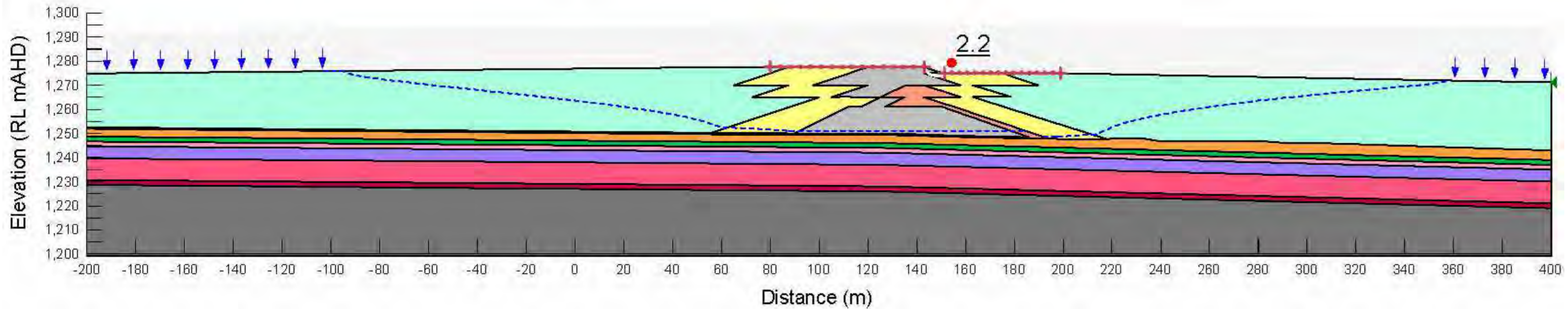
Project No. 12685165
 Revision A
 Date 30/01/2025

Figure 40

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Shear/Normal Strength Fn.	Tau/Sigma Ratio	Minimum Shear Strength (kPa)	Undrained Shear Strength (kPa)
Grey	Slope_Bedrock (Dolerite)	Undrained (Phi=0)	24							500
Orange	Slope_Clay starter/face_Post static	SHANSEP	19					0.55	10	
Light Green	Slope_F1 - laterite - sandy gravel_Post static	Shear/Normal Fn.	21			0	F1_Post static			
Dark Green	Slope_F2 - Laterised saprolite_Post static	Shear/Normal Fn.	20			0	F2_Post static			
Pink	Slope_F3 - Pallid saprolite_Post static	SHANSEP	17					0.33	10	
Light Blue	Slope_F4 - soft layer_Post static	SHANSEP	17					0.41	10	
Red	Slope_F5 - Saprolite_Post static	SHANSEP	18					0.43	10	
Dark Red	Slope_F6 - Extremely weathered rock_Post static	Shear/Normal Fn.	21			0	F6_Post static			
Light Grey	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0				
Light Cyan	Slope_Tailings (inner sandy silt)_Post static	SHANSEP	14.1					0.08	5	
Yellow	Slope_Tailings (outer beach sand)_Post static	Mohr-Coulomb	16	0	28	0				

Cell 1

Cell 2



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Notes:

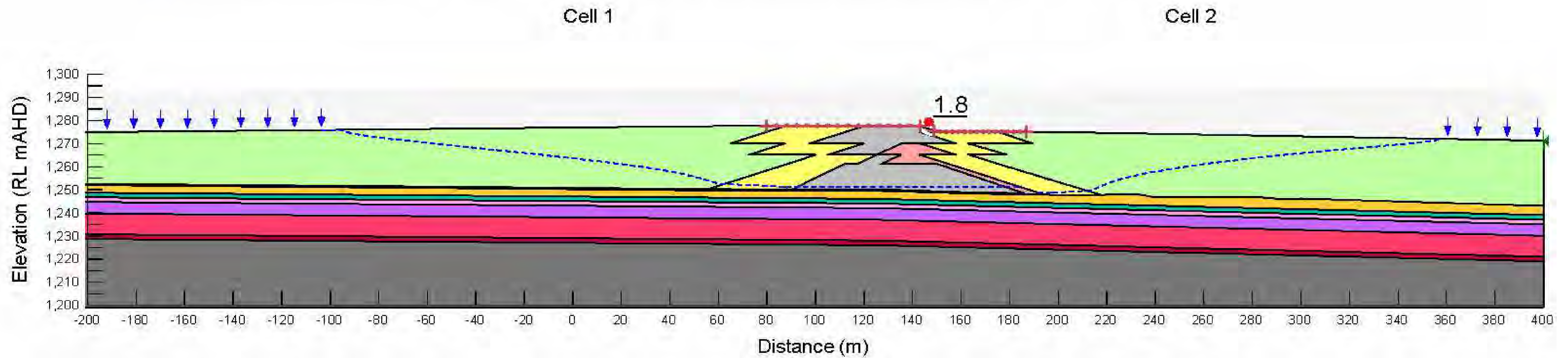
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Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Section E
 Cell 1 RL 1277.5 m Cell 2 RL 1275 m
 Case: Post Static Circular

Project No. 12685165
 Revision A
 Date 30/01/2025

Figure 41

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Shear/Normal Strength Fn.	Tau/Sigma Ratio	Minimum Shear Strength (kPa)	Undrained Shear Strength (kPa)
Grey	Slope_Bedrock (Dolerite)	Undrained (Phi=0)	24							500
Red	Slope_Clay starter/face_Post seismic	SHANSEP	19					0.44	10	
Yellow	Slope_F1 - laterite - sandy gravel_Post seismic	Shear/Normal Fn.	21			0	F1_Post seismic			
Green	Slope_F2 - Laterised saprolite_Post seismic	Shear/Normal Fn.	20			0	F2_Post seismic			
Pink	Slope_F3 - Pallid saprolite_Post seismic	SHANSEP	17					0.264	10	
Purple	Slope_F4 - soft layer_Post seismic	SHANSEP	17					0.328	10	
Red	Slope_F5 - Saprolite_Post seismic	SHANSEP	18					0.344	10	
Dark Red	Slope_F6 - Extremely weathered rock_Post seismic	Shear/Normal Fn.	21			0	F6_Post seismic			
Light Grey	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0				
Light Green	Slope_Tailings (inner sandy silt)_Post seismic	SHANSEP	14.1					0.08	10	
Yellow	Slope_Tailings (outer beach sand)_Post seismic	Mohr-Coulomb	16	0	22.4	0				



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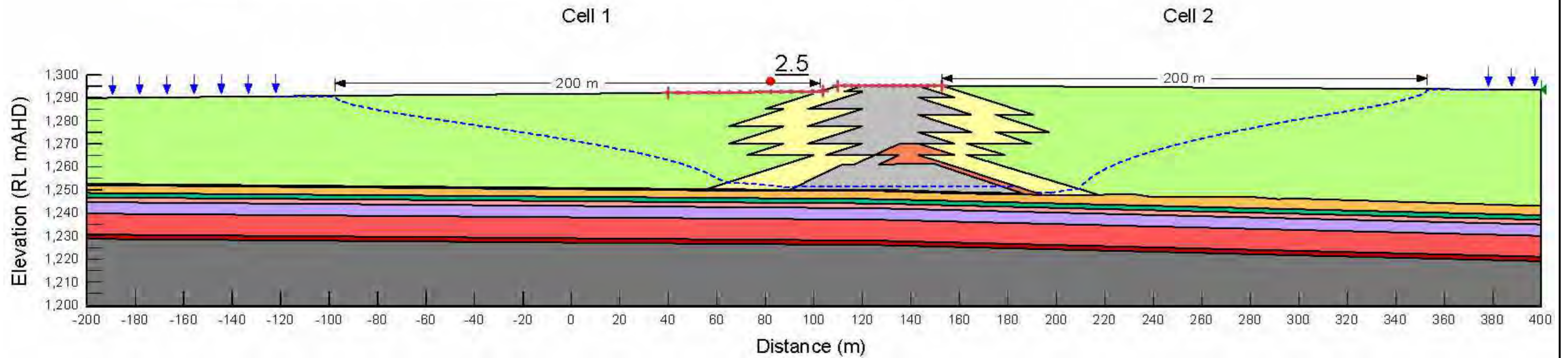
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Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Section E
 Cell 1 RL 1277.5 m Cell 2 RL 1275 m
 Case: Post Seismic Circular

Project Nro. 12685165
 Revision A
 Date 30/01/2025

Figure 42

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Shear/Normal Strength Fn.	Undrained Shear Strength (kPa)
Grey	Slope_Bedrock (Dolerite)	Undrained (Phi=0)	24					500
Orange	Slope_Clay starter/face_Longterm	Mohr-Coulomb	19	0	28	0		
Yellow	Slope_F1 - laterite - sandy gravel_Longterm	Shear/Normal Fn.	21			0	F1_Longterm	
Green	Slope_F2 - Laterised saprolite_Longterm	Shear/Normal Fn.	20			0	F2_Longterm	
Red	Slope_F3 - Pallid saprolite_Longterm	Shear/Normal Fn.	17			0	F3_Longterm	
Purple	Slope_F4 - soft layer_Longterm	Shear/Normal Fn.	17			0	F4_Longterm	
Dark Red	Slope_F5 - Saprolite_Longterm	Shear/Normal Fn.	18			0	F5_Longterm	
Dark Red	Slope_F6 - Extremely weathered rock_Longterm	Shear/Normal Fn.	21			0	F6_Longterm	
Grey	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0		
Light Green	Slope_Tailings (inner sandy silt)_Longterm	Mohr-Coulomb	14.1	0	26	0		
Yellow	Slope_Tailings (outer beach sand)_Longterm	Mohr-Coulomb	16	0	28	0		



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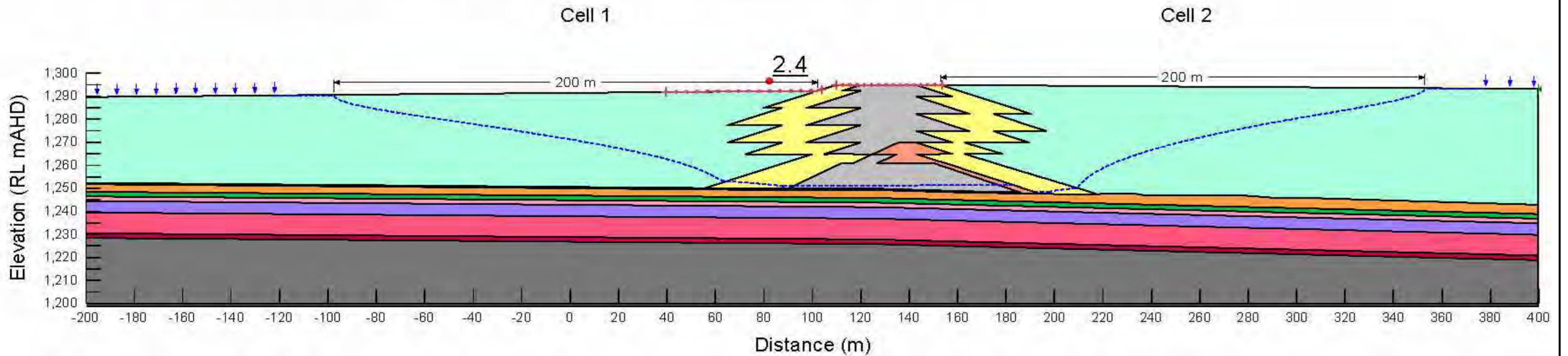
Notes:

Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Section E
 Cell 1 RL 1292.5 m Cell 2 RL 1295 m
 Case: Long Term Circular

Project Nro. 12685165
 Revision A
 Date 30/01/2025

Figure 43

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Shear/Normal Strength F.n.	Tau/Sigma Ratio	Minimum Shear Strength (kPa)	Undrained Shear Strength (kPa)
Grey	Slope_Bedrock (Dolerite)	Undrained (Phi=0)	24							500
Orange	Slope_Clay starter/face_Post static	SHANSEP	19					0.55	10	
Light Orange	Slope_F1 - laterite - sandy gravel_Post static	Shear/Normal F.n.	21			0	F1_Post static			
Green	Slope_F2 - Laterised saprolite_Post static	Shear/Normal F.n.	20			0	F2_Post static			
Pink	Slope_F3 - Pallid saprolite_Post static	SHANSEP	17					0.33	10	
Blue	Slope_F4 - soft layer_Post static	SHANSEP	17					0.41	10	
Red	Slope_F5 - Saprolite_Post static	SHANSEP	18					0.43	10	
Dark Red	Slope_F6 - Extremely weathered rock_Post static	Shear/Normal F.n.	21			0	F6_Post static			
Light Grey	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0				
Light Green	Slope_Tailings (inner sandy silt)_Post static	SHANSEP	14.1					0.08	5	
Yellow	Slope_Tailings (outer beach sand)_Post static	Mohr-Coulomb	16	0	28	0				



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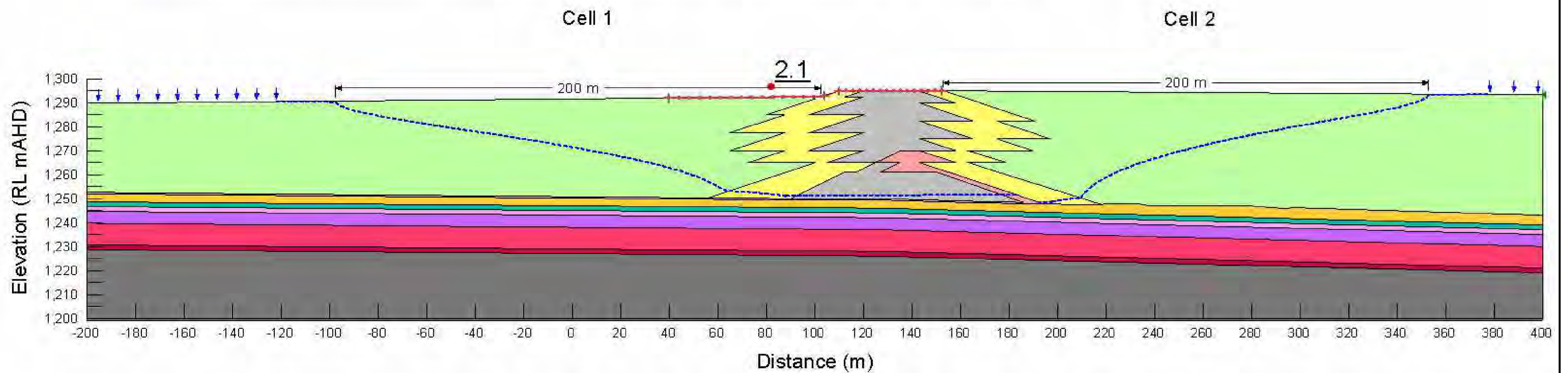
Notes:

Client: Talison Lithium Pty Ltd
 Project: TSF4 Cell 1 Redesign to a height of RL 1277.5 m
 Section: Section E
 Cell 1 RL 1292.5 m Cell 2 RL 1295 m
 Case: Post Static Circular

Project No. 12685165
 Revision A
 Date 30/01/2025

Figure 44

Color	Name	Slope Stability Material Model	Unit Weight (kN/m ³)	Effective Cohesion (kPa)	Effective Friction Angle (°)	Phi-B (°)	Shear/Normal Strength Fn.	Tau/Sigma Ratio	Minimum Shear Strength (kPa)	Undrained Shear Strength (kPa)
Grey	Slope_Bedrock (Dolerite)	Undrained (Phi=0)	24							500
Red	Slope_Clay starter/face_Post seismic	SHANSEP	19					0.44	10	
Yellow	Slope_F1 - laterite - sandy gravel_Post seismic	Shear/Normal Fn.	21			0	F1_Post seismic			
Green	Slope_F2 - Laterised saprolite_Post seismic	Shear/Normal Fn.	20			0	F2_Post seismic			
Pink	Slope_F3 - Pallid saprolite_Post seismic	SHANSEP	17					0.264	10	
Purple	Slope_F4 - soft layer_Post seismic	SHANSEP	17					0.328	10	
Red	Slope_F5 - Saprolite_Post seismic	SHANSEP	18					0.344	10	
Dark Red	Slope_F6 - Extremely weathered rock_Post seismic	Shear/Normal Fn.	21			0	F6_Post seismic			
Light Grey	Slope_Mine waste rock (embankments)	Mohr-Coulomb	23	0	40	0				
Light Green	Slope_Tailings (inner sandy silt)_Post seismic	SHANSEP	14.1					0.08	10	
Yellow	Slope_Tailings (outer beach sand)_Post seismic	Mohr-Coulomb	16	0	22.4	0				



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Notes:

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Client: Talison Lithium Pty Ltd
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 Section: Section E
 Cell 1 RL 1292.5 m Cell 2 RL 1295 m
 Case: Post Seismic Circular

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 Date 30/01/2025

Figure 45

Appendix C

Monitoring reports for 2025

(Quarterly monitoring by GHD and groundwater monitoring data provided by Talison)



Talison Lithium Pty Ltd Greenbushes Lithium Mine Expansion

Quarterly Monitoring Report
(January to March 2025)

July 2025



Project name		Talisson TFS Quarterly Monitoring					
Document title		Talisson TFS Quarterly Monitoring Talisnon TFS Quarterly report (January – March 2025)					
Project number		12666993					
File name		12666993 Talisnon TFS Quaterly monitoring Report January - March 2025.docx					
Status Code	Revision	Author	Reviewer		Approved for issue		
			Name	Signature	Name	Signature	Date
S4	0						

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Contents

1.	Introduction	1
1.1	Purpose of this report	1
1.2	Scope and limitations	1
1.3	Acronyms, terms and abbreviations	2
2.	Monitoring program	2
3.	Tailings production overview	5
3.1	General	5
3.2	Planned production	5
3.3	Actual production	5
4.	TSF1	7
4.1	Piezometers	7
5.	TSF2	10
5.1	Tailings deposition	10
5.1.1	Deposition volumes	10
5.1.1.1	Production data	10
5.1.1.2	Aerial survey	10
5.1.2	Estimation of remaining capacity	10
5.1.3	In-situ tailings density	13
5.2	Water balance	13
5.2.1	Decant pond levels	13
5.2.2	Decant return water volume	14
5.2.3	Seepage/collection sump flows	14
5.2.4	Rainfall	16
5.2.5	Evaporation	16
5.2.6	Interstitial water loss estimate	17
5.2.7	Water balance summary	17
5.3	Piezometers	18
5.3.1	General	18
5.3.2	Section A	19
5.3.3	Section B	19
5.3.4	Section C	19
5.3.5	Section D	20
5.3.6	Section E	20
5.3.7	VWPs installed in 2020	20
5.4	Deformation monitoring	24
5.4.1	Survey pins	24
5.4.2	GNSS deformation monitoring	29
6.	TSF3	29
6.1	Piezometers	29
7.	TSF4	31
7.1	Tailings deposition	31
7.1.1	Deposition volumes	31
7.1.1.1	Production data	31
7.1.1.2	Aerial survey	31

7.1.2	Estimation of remaining capacity	31
7.1.3	In-situ tailings density	32
7.2	Water balance	33
7.2.1	Decant pond levels	33
7.2.2	Decant return water volume	34
7.2.3	Seepage sump flows	34
7.2.4	Rainfall	35
7.2.5	Evaporation	35
7.2.6	Seepage losses	36
7.2.7	Interstitial water loss estimate	36
7.2.8	Water balance summary	36
7.3	Piezometers	37
7.3.1	Piezometers installed to monitor pressure during construction	37
7.3.2	Piezometers installed to monitor pressure during operation	38
7.3.2.1	TSF4 Cell 1	38
7.3.2.2	TSF4 Cell 2	38
7.4	Deformation monitoring	41
7.4.1	Survey pins	41
7.4.2	Inclinometers	42
8.	Groundwater monitoring and monitoring boreholes	42
8.1	General	42
8.2	Ground water quality monitoring	43
8.3	Groundwater level monitoring	46
9.	Recommendations	48
10.	References	49

Table index

Table 1.1	Acronyms, terms and abbreviations	2
Table 2.1	Available monitoring system and frequency	2
Table 2.2	Details of monitoring equipment for the quarter	4
Table 3.1	Production data	6
Table 4.1	Review comments for TSF1 VWPs	8
Table 4.2	Summary of non-functional piezometers for TSF1	8
Table 5.1	TSF2 monthly volume change	10
Table 5.2	TSF2 remaining capacity (calculated from .dxf files provided)	10
Table 5.3	Decant return value for TSF2	14
Table 5.4	TSF2 sump flows	15
Table 5.5	Rainfall details	16
Table 5.6	Recorded pan evaporation at Balingup ²	16
Table 5.7	Evaporation outflow for TSF2 (m ³)	17
Table 5.8	TSF2 interstitial water	17
Table 5.9	Overall water balance for TSF2	18
Table 5.10	Review comments for TSF2 VWPs (Section A)	21
Table 5.11	Review comments for TSF2 VWPs (Section B)	21
Table 5.12	Review comments for TSF2 VWPs (Section C)	22

Table 5.13	Review comments for TSF2 VWPs (Section D)	22
Table 5.14	Review comments for TSF2 VWPs (Section E)	23
Table 5.15	TSF2 VWPs not returning readings	23
Table 5.16	Base Survey for survey pins placed in TSF2 (5 June 2024)	24
Table 5.17	Summary of movement of survey pins (17 March 2025)	25
Table 6.1	Review comments for TSF3 VWPs	30
Table 7.1	TSF4 deposition volumes	31
Table 7.2	TSF4 estimated remaining capacity	31
Table 7.3	TSF4 Cell 1 reconciled dry density	33
Table 7.4	Decant water return volume (m ³)	34
Table 7.5	Evaporation outflow for TSF4 (m ³)	35
Table 7.6	Seepage losses for TSF4	36
Table 7.7	TSF2 interstitial water	36
Table 7.8	Overall water balance for TSF4	36
Table 7.9	Review comments for TSF4 construction VWPs	39
Table 7.10	Review comments for TSF4 Cell 1 VWPs	39
Table 7.11	Review comments for TSF4 Cell 2 VWPs	40
Table 7.12	Piezometers in TSF4 Cell 1 & 2 not returning readings	41
Table 7.13	Survey markers installation details	41
Table 7.14	Inclinometers details (TSF4 Cell 1 and Cell 2)	42
Table 8.1	Normalised groundwater levels	46
Table 9.1	2025 January to March Recommendations	48

Figure index

Figure 5.1	TSF2 re-profiling final surface	11
Figure 5.2	TSF2 Section A	12
Figure 5.3	TSF2 decant pond level since 1 January 2024	13
Figure 5.4	TSF2 decant pond level for the quarter (January – March 2025)	14
Figure 5.5	TSF2 Sump locations	15
Figure 5.6	Volume of water pumped out of the seepage sumps	16
Figure 5.7	TSF2 VWP section locations	19
Figure 5.8	Movement of TSF2 survey pins in east – west direction (a)	25
Figure 5.9	Movement of TSF2 survey pins in east – west direction (b)	26
Figure 5.10	Movement of TSF2 survey pins in north - south direction (a)	27
Figure 5.11	Movement of TSF2 survey pins in north - south direction (b)	27
Figure 5.12	Movement of TSF2 survey pins in RL (a)	28
Figure 5.13	Movement of TSF2 survey pins in RL (b)	28
Figure 7.1	TSF4 Cell 1 survey dated 21 March 2025	32
Figure 7.2	Decant Pond level for TSF4 Cell 1	33
Figure 7.3	Decant pond level for TSF4 Cell 1 (January - March 2025)	34
Figure 7.4	Volume of water pumped in Sumps A and B	35
Figure 7.5	Construction VWPs (TSF4 Cell 1)	37
Figure 7.6	TSF4-PZ03A and TSF4-PZ03B	38
Figure 8.1	Southern perimeter wells (24 nos.)	43
Figure 8.2	Concentration of Arsenic in monitoring boreholes	44
Figure 8.3	Concentration of Lead in monitoring boreholes	44

Figure 8.4	Concentration of Lithium in monitoring boreholes	45
Figure 8.5	Concentration of Nickel in monitoring boreholes	45
Figure 8.6	Water level in monitoring boreholes (Shallow)	47
Figure 8.7	Water level in monitoring boreholes (Intermediate)	47
Figure 8.8	Water level in monitoring boreholes (Deep)	48

Appendices

Appendix A	Action Items Schedule
Appendix B	Instrumentation locations
Appendix C	Instrumentation details
Appendix D	Piezometer reports
Appendix E	GNSS reports
Appendix F	Inclinometer reports
Appendix G	TSF2 and TSF4 volume survey

1. Introduction

1.1 Purpose of this report

The purpose of this report is to document the review of the TSF monitoring data for January 2025 to March 2025 and to capture any findings and recommendations (refer to section 9 of this report). The following data was reviewed:

- TSF production data
- Decant pond level readings for TSF2 and TSF4
- Decant return rates for TSF2 and TSF4
- Volumes pumped out of the seepage sumps for TSF2 and TSF4
- Aerial survey to show beach development and pond management
- Beach volume report for TSF2 and TSF4
- General Piezometer Reports for TSF1, TSF2, TSF3 and TSF4:
 - o October – December 2024
 - o January – March 2025
- Deformation monitoring data
 - o Survey data for TSF2 and TSF4
 - o GNSS monitoring data for TSF2
 - o General Inclinator Reports:
 - October – December 2024
 - January – March 2025

No monitoring bore readings were received for the quarter.

1.2 Scope and limitations

This report has been prepared by GHD for Talison Lithium Pty Ltd and may only be used and relied on by Talison Lithium Pty Ltd for the purpose agreed between GHD and Talison Lithium Pty Ltd as set out in section 1.1 of this report.

GHD otherwise disclaims responsibility to any person other than Talison Lithium Pty Ltd arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

1.3 Acronyms, terms and abbreviations

Table 1.1 defines the acronyms, terms and abbreviations used in this report.

Table 1.1 Acronyms, terms and abbreviations

Acronyms, terms or abbreviations	Definition
GHD	GHD Pty Ltd
GNSS	Global Navigation Satellite System
Talison	Talison Lithium Pty Ltd
TSF	Tailings Storage Facility
VWP	Vibrating wire piezometer

2. Monitoring program

The TSF monitoring program currently in place at the site is summarised in Table 2.1.

Table 2.1 Available monitoring system and frequency

Monitoring type	TSF 1	TSF2	TSF 3	TSF4
Vibrating Wire Piezometers (VWP)	<p>Upstream tailings (7 No.)</p> <p>TSF1-CPT20-01 TSF1-CPT20-03 TSF1-CPT20-05 TSF1-CPT20-07 TSF1-CPT20-09 TSF1-CPT20-10 TSF1-CPT20-11</p> <p>Crest (5 No.)</p> <p>TSF1-CPT20-12 TSF1-CPT20-14 TSF1-CPT20-15 TSF1-CPT20-16 TSF1-CPT20-17</p> <p>Downstream berm (5 No.)</p> <p>TSF1-CPT20-02 TSF1-CPT20-04 TSF1-CPT20-06 TSF1-CPT20-08 TSF1-CPT20-13</p>	<p>Section A</p> <p>CPT2023-01A Shallow CPT2023-01A Deep CPT2023-01B Shallow CPT2023-01B Deep CPT2023-01C Shallow CPT2023-01C Deep</p> <p>Section B</p> <p>CPT2019-02A Shallow CPT2019-02A Deep CPT2023-02B Shallow CPT2023-02B Intermediate CPT2023-02B Deep CPT2019-02C Shallow CPT2019-02C Deep</p> <p>Section C</p> <p>CPT2019-03A Shallow CPT2019-03A Deep CPT2023-03B CPT2019-03C Shallow CPT2019-03C Intermediate CPT2019-03C Deep</p> <p>Section D</p> <p>CPT2023-04A Shallow CPT2023-04A Deep CPT2023-04B</p>	<p>Crest (6 No.)</p> <p>VWP2023-01A Shallow VWP2023-01A Deep VWP2023-02A Shallow VWP2023-02A Deep VWP2023-03A Shallow VWP2023-03A Deep</p>	<p>Soft Clay Layer (3 No.)</p> <p>VWP – 01 VWP – 02 VWP – 03</p> <p>TSF4 Cell 1 Embankment (23 No.)</p> <p>PZ01 A, C, D, E, F PZ02 A, B, C, D, E, F PZ03 A, B, C, D, E, F PZ 07 PZ 08 PZ 09A, 09B (Divider embankment) PZ 10 PZ 11</p> <p>TSF4 Cell 2 Embankment (15 No.)</p> <p>PZ04 A, C, D, E, F PZ05 A, B, C, D, E PZ06 A, B, C, D, E</p>

Monitoring type	TSF 1	TSF2	TSF 3	TSF4
		CPT2023-04B Shallow CPT2023-04B Deep CPT2019-04C Shallow CPT2019-04C Deep Section E CPT2019-05A Shallow CPT2023-05A Intermediate CPT2019-05A Deep CPT2023-05B Shallow CPT2023-05B Intermediate CPT2019-05B Deep VWPs installed in 2020 TSF2-CPT20-01 TSF2-CPT20-02 TSF2-CPT20-04 TSF2-CPT20-05 TSF2-CPT20-07 TSF2-CPT20-13		
Monitoring bores (MB)	MB07/02 - MB07/07 (6 no.) MB17/07D, MB17/07S (2 No.) MB17/08S (1 No.) MB1, MB1A, MB2A (3 No.)	MB13/01 - MB13/8 (8 No.) HYD001 - HYD006 (6 No.)	MB01/06, MB01/07, MB02 (3 No.)	MB – 24/01 S/I/D to MB – 24/08 S/I/D (24 No.)
Survey pins	Ten survey pins were installed in May 2020	TSF2 – 77 TSF2 - 78 TSF2 - 79 TSF2 - 80 TSF2 - 81 TSF2 – 82 TSF2 – 83 TSF2 – 84 TSF2 – 85 TSF2 – 86 TSF2 – 87 TSF2 – 88 TSF2 – 89 TSF2 Check 1 TSF2 Check 2 TSF2 Check 3	None	TSF4 Cell 1 SM04 SM05 SM06 SM07 SM09 SM10 SM11 SM12 SM13 SM14 SM15 SM16 SM17
Satellite monitoring	None	GNSS satellite monitoring (7 nos.)	None	None
Inclinometer	None	None	None	TSF4 Cell 1 IN02

Monitoring type	TSF 1	TSF2	TSF 3	TSF4
				TSF4 Cell 2 IN01
Decant water collection sumps	None	Seepage Sump 0 Seepage Sump 1 Seepage Sump 2 Seepage Sump 3 (Measured weekly)	None	TSF4 Cell 1 Captured in Sump A (SS A) and Sump B (SS B) (Measured weekly)
Decant pond level	N/A	Recorded daily	N/A	Recorded daily
Aerial survey and photography	Not undertaken	Monthly	Not undertaken	Monthly
Production data	N/A	Recorded daily at the process plant	N/A	Recorded daily at the process plant
Rainfall	Data recorded by the Bureau of Meteorology, Western Australia			

The locations of all VWPs, monitoring bores, survey pins, GNSS survey points and inclinometers are shown in the figures included in Appendix B. The installation details of the VWPs are also provided in Appendix B.

Details of the functional and non-functional piezometers for TSF1, TSF2, TSF3 and TSF4 as of 31 March 2025 are provided in Table 2.2.

Table 2.2 Details of monitoring equipment for the quarter

Monitoring equipment	Location	No. of working instruments	No. of non-working instruments	Total no.	Percentage working as of 31 March 2025
TSF1					
Piezometers	-	4	13	17	24%
TSF2					
Piezometers	Section A	6	0	6	100%
	Section B	7	0	7	100%
	Section C	5	1	6	83%
	Section D	6	1	7	86%
	Section E	4	2	6	67%
	VWPs installed in 2020	0	6	13	0%
TSF3					
Piezometers	-	6	0	6	100%
TSF4					
Piezometers	Construction VWPs	3	0	3	100%
	Cell 1	23	1	24	96%
	Cell 2	15	0	15	100%

3. Tailings production overview

3.1 General

Four plants produce tailings:

1. Technical Grade Plant (TGP)
2. Chemical Grade Plant 1 (CGP1)
3. Chemical Grade Plant 2 (CGP2)
4. Tailings Retreatment Plant (TRP)

3.2 Planned production

The 2024 Deposition Schedule (October 2024) which was provided by Talison forecast a total deposition of 1,177,289 t of tailings solids for the quarter.

3.3 Actual production

A total of 4,057,891 m³ of slurry, comprising 1,077,388 tonnes of tailings solids, was produced from the four plants from 1 January 2025 to 31 March 2025. The production data is detailed in Table 3.1.

Table 3.1 Production data

Month	TGP		CGP1		CGP2		TRP		Total solids (t)	Total flow (m ³)
	Flow (m ³)	Solids (t)	Flow (m ³)	Solids (t)	Flow (m ³)	Solids (t)	Flow (m ³)	Solids (t)		
2022	5,166,846	200,148	3,184,119	1,114,996	1,451,105	7,232,936	2,275,625	944,428	3,710,677	17,859,526
2023	3,089,353	113,769	1,881,952	644,008	2,694,484	788,569	2,069,488	894,976	2,441,321	10,034,911
2024	5,319,962	215,535	3,230,064	1,059,740	5,287,123	1,368,863	3,434,711	1,535,566	4,179,704	17,271,859
2025 (Q1)	1,151,287	42,058	739,586	262,180	1,308,870	337,717	858,148	435,432	1,077,388	4,057,891
January 2025	494,434	20,361	265,922	88,862	434,191	119,838	313,383	160,411	389,472	1,507,929
February 2025	323,972	14,574	212,903	73,016	425,182	108,670	249,188	114,257	310,517	1,211,245
March 2025	332,882	7,122	260,760	100,303	449,498	109,210	295,577	160,763	377,339	1,338,717

4. TSF1

4.1 Piezometers

A summary of the behaviour of active piezometers at TSF1 is provided in Table 4.1 and the graphical representation for the quarter is provided in Appendix D. The long-term trends over the last 12 months, and a quarterly trend are presented in the Table 4.1. Trigger levels are not defined for TSF1 as it is not operational.

The piezometers exhibited expected behaviour patterns for the monitoring period.

A total of 13 piezometers did not return frequency readings.

Recent changes to the status of the piezometers were:

- TSF1 CPT06 stopped returning readings in December 2024 and was repaired. Readings were recorded from February 2025.
- TSF1 CPT08 stopped returning readings from mid-March 2025. ***The VWP should be investigated and repaired.***
- TSF1 CPT20-02 was reported (refer to Appendix D) as active and receiving readings. This piezometer has been recorded as inactive since 2023, and the load-sensing platform does not show any data recorded against this piezometer (Readout box no. 16452 and Channel no. 1). ***Talison to confirm when this piezometer was repaired and if it has been connected to another readout box and provide the channel no.***

Table 4.1 Review comments for TSF1 VWP

Piezo ID	Location	VWP serial no.	Northing (m)	Easting (m)	Sensor RL (m)	Data received until	Quarterly review comments
TSF1-CPT20-02	Downstream berm	2002725	413911.29	6251484.20	256.20	31/03/2025	Steady trend for the quarter
TSF1-CPT20-06		2002739	6250567.77	413554.33	253.85	31/03/2025	Steady trend for the quarter and long term.
TSF1-CPT20-08		2002738	6250582.07	413064.56	243.58	Mid-March 2025	Steady trend for the quarter and long term. Stopped returning readings from mid-March 2025.
TSF1-CPT20-16	Crest	2002723	6251412.58	413037.08	259.87	31/03/2025	Decreasing trend, quarterly and long term.

Table 4.2 Summary of non-functional piezometers for TSF1

Piezo ID	VWP serial no.	Location	Northing (m)	Easting (m)	Sensor RL (m)	Data received until
TSF1-CPT20-01	2002732	Upstream tailings	6251478.28	413820.67	264.27	September 2024
TSF1-CPT20-03	2002733		6251004.37	413843.87	265.36	October 2024
TSF1-CPT20-05	2002731		6250704.79	413543.26	263.14	April 2024
TSF1-CPT20-07	2002728		6250701.19	413060.39	258.41	September 2023
TSF1-CPT20-09	2002730		6250896.55	412775.18	256.58	March 2022
TSF1-CPT20-10	2002726		6251174.76	412781.50	254.82	August 2023
TSF1-CPT20-11	2002727		6251340.22	413033.35	258.32	April 2023
TSF1-CPT20-12	2002729	Crest	6251620.49	413292.92	261.89	No record on the server
TSF1-CPT20-14	2002720		6250903.79	412706.86	258.67	December 2023
TSF1-CPT20-15	2002718		6251176.66	412704.98	258.70	September 2022

Piezo ID	VWP serial no.	Location	Northing (m)	Easting (m)	Sensor RL (m)	Data received until
TSF1-CPT20-17	2002736		6251638.07	413188.84	260.49	No record on the server
TSF1-CPT20-04	2002740	Downstream berm	6251019.84	413946.05	248.70	March 2023
TSF1-CPT20-13	2002734		6251032.9	414003.69	244.52	December 2021

5. TSF2

5.1 Tailings deposition

5.1.1 Deposition volumes

5.1.1.1 Production data

Based on the monthly production records a total of 533,079 m³ of slurry, comprising 156,971 tonnes of tailings solids, was deposited into TSF2 during the quarter.

5.1.1.2 Aerial survey

An aerial survey (.dxf file) was provided for each month, refer to Appendix G. The monthly change in the TSF2 tailings volume, based on the beach volume report provided by Talison, is provided in Table 5.1. The total volume of material within TSF2, based on the monthly aerial surveys, shows an increase in stored material in TSF2 in January and February and a decrease in March.

The aerial photographs received for the quarter showed that the fill in TSF2 extends above the maximum tailings level of RL 1279.7 m in a small portion at the southeast corner. **Tailings above the permissible maximum tailings level pose a threat to the stability of the facility, and the material should be removed.**

Table 5.1 TSF2 monthly volume change

Period	Tailings increase as per survey (m ³)
January 2025 (up to 7/01/2025)	11,341
February 2025 (up to 8/02/2025)	58,616
March 2025 (up to 9/03/2025)	-21,885*

*The negative value indicates that the volume within the TSF has decreased

5.1.2 Estimation of remaining capacity

The estimated remaining capacity for TSF2 is provided in Table 5.2 and is estimated by determining the volume remaining between the surface of the TSF in March 2025 and the final beach profile. The final beach profile has the following properties:

- The maximum tailings beach level is RL 1279.7 m
- The beach slope is 0.1% for the first 150 m, 2.5% for the next 80 m and then 1.5% for the next 150 m.

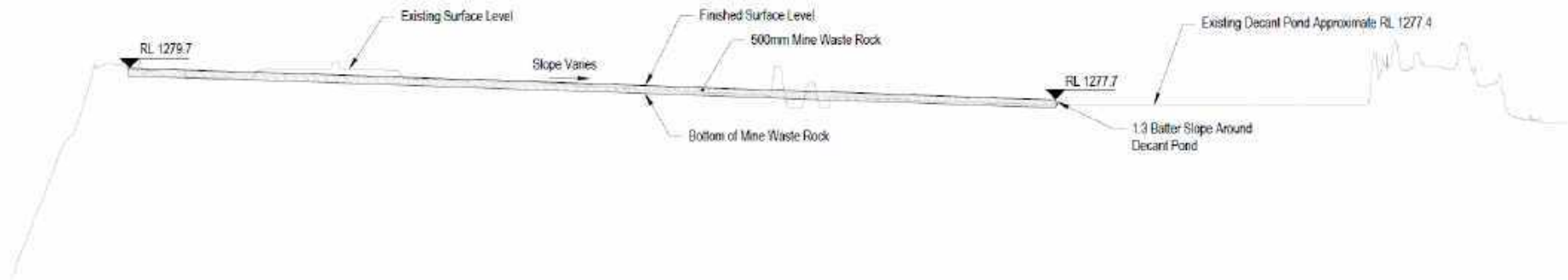
Table 5.2 TSF2 remaining capacity (calculated from .dxf files provided)

Survey date	Remaining capacity in the TSF (m ³) as per survey
07/01/2025	322,700
08/02/2025	293,300
10/03/2025	308,781

TSF2 is planned to be re-profiled and capped with mine waste rock to manage dust generation. A design for the re-profiling has been provided to Talison. The final re-profiled surface and a cross section are shown in Figure 5.1 and Figure 5.2.



Figure 5.1 TSF2 re-profiling final surface



A SECTION
 Fig. 01 SCALE: H 1:2500 V 1:250

Figure 5.2 TSF2 Section A

5.1.3 In-situ tailings density

Due to the ad-hoc remining and deposition of tailings in TSF2, the in-situ density of the tailings is no longer calculated.

5.2 Water balance

5.2.1 Decant pond levels

The TSF2 decant pond levels since 1 January 2024 are shown in Figure 5.3 and the quarterly levels are shown in Figure 5.4. The decant pond is monitored daily.

The recorded decant pond level decreased over the quarter and remained below the maximum operating level for the first quarter of 2025.

On 1 February 2025 the decant pond records show a sudden decrease of approximately 5 m. The following day the recorded decant level returned to the previous level. This is likely due to a data abnormality and is not considered representative of the actual decant pond behaviour.

On 27 March 2025 and between 29 and 31 March 2025 the decant level was not recorded and the records state “water below gauge”.

It is important that the operation of the facility complies with the requirements of the OMM and that the decant level continues to be maintained below the maximum operating level at all times to ensure the integrity of the facility.

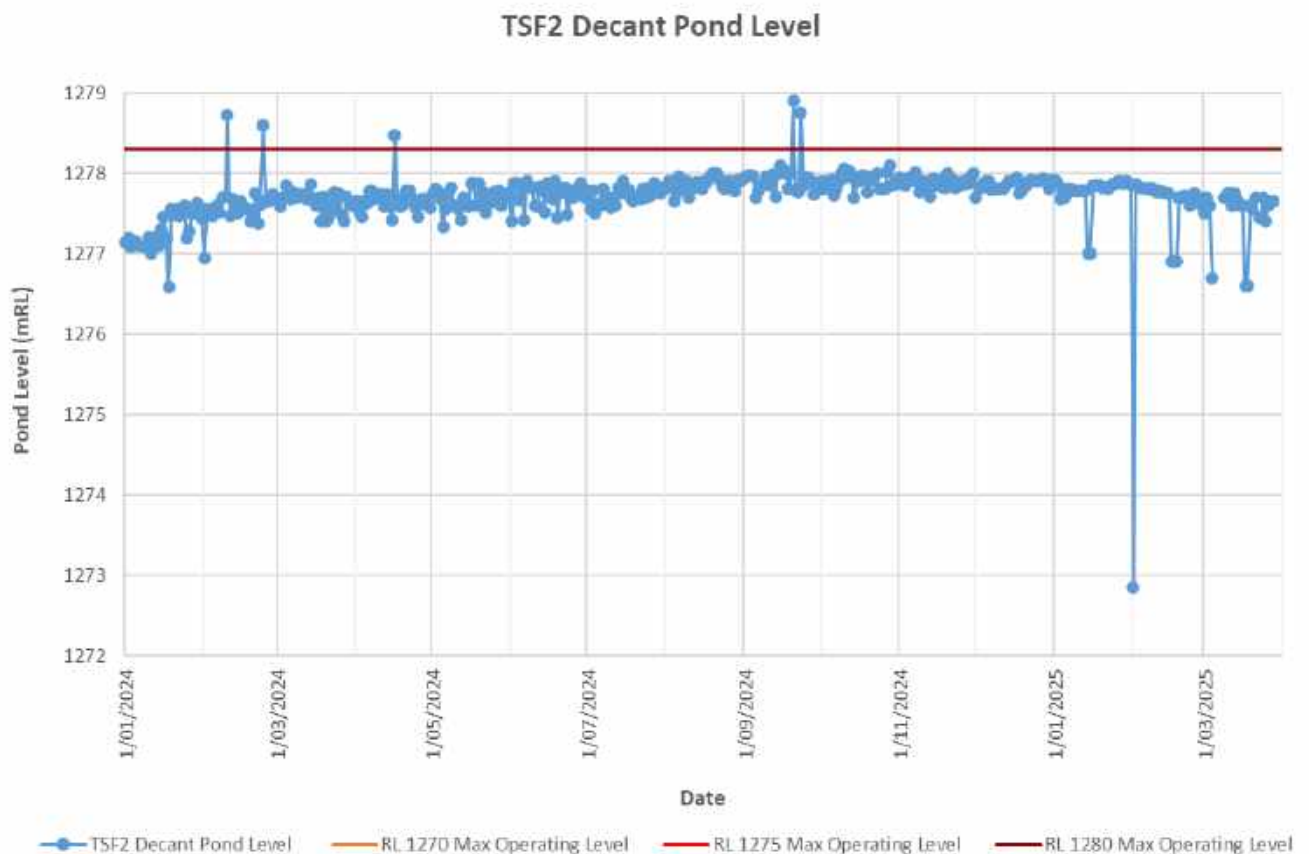


Figure 5.3 TSF2 decant pond level since 1 January 2024

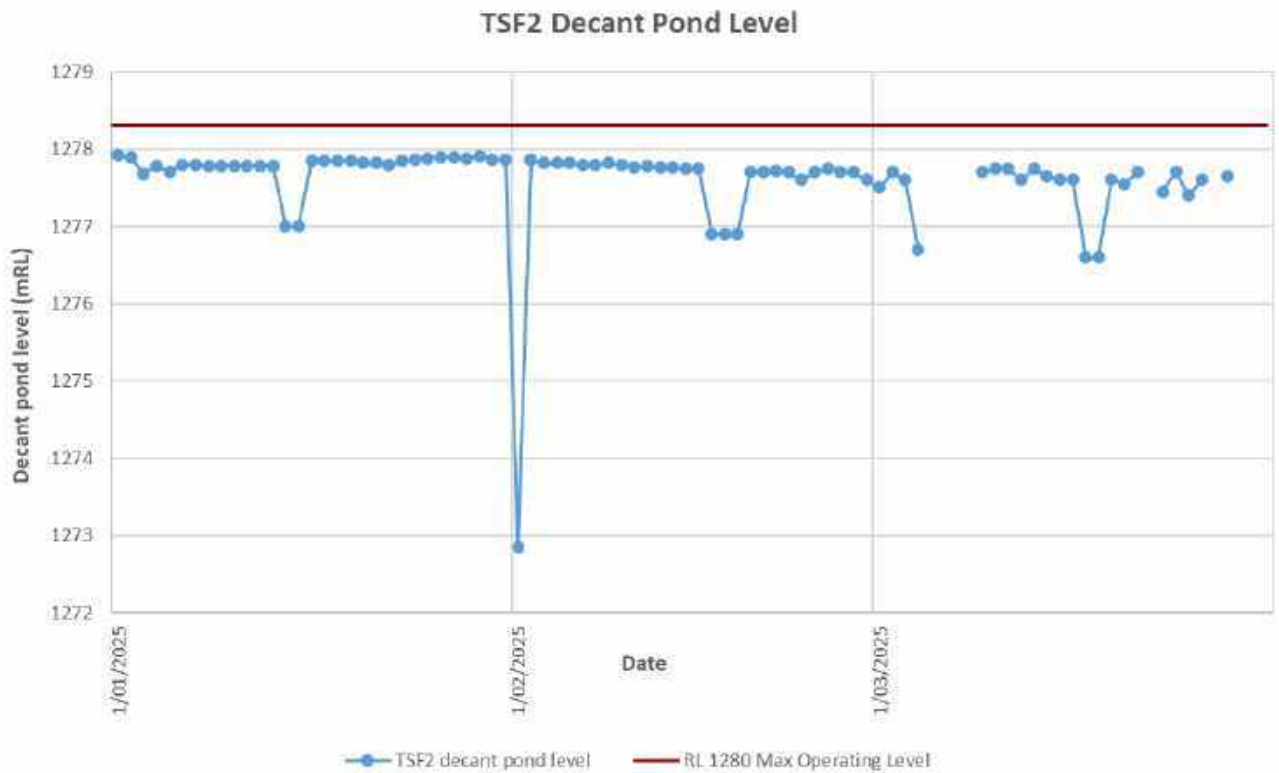


Figure 5.4 TSF2 decant pond level for the quarter (January – March 2025)

5.2.2 Decant return water volume

The decant return pumps transfer water from the decant pond to Clear Water Dam (CWD). Table 5.3 shows the recorded volume of decant water pumped from the TSF2 decant pond to CWD for the quarter.

In January 2025, the flow meter measurements showed that the flow meter ran backwards. This data has been excluded from the water balance summary.

Table 5.3 Decant return value for TSF2

Summation	TSF2 Decant to CWD Electric Pump 95 (m ³)	TSF2 Decant to CWD Electric Pump 96 (m ³)
January	-5435*	0
February	0	0
March	2	1662
Total	2	1662

5.2.3 Seepage/collection sump flows

There are four collection sumps (Seepage Sump 0 (SS0), Seepage Sump 1 (SS1), Seepage Sump 2 (SS2), Seepage Sump 3 (SS3)) that collect seepage from TSF2. The locations of the seepage sumps are shown in Figure 5.5. The seepage sumps collect seepage from the underdrainage system and transfer the collected seepage as follows:

- SS0 pumps directly to CWD
- SS1 pumps directly to CWD, and if the water level rises above the high level, SS1 overflows into SS2
- SS2 typically pumps to CWD, but when needed, it can also pump to SS3
- SS3 pumps to CWD and Tin Shed Dam

The flows in collection sumps are recorded weekly, and the measured flows are plotted in Figure 5.6. The monthly pumped volumes are shown in Table 5.4.

Table 5.4 T&F2 sump flows

Month	Volume (m ³)
January	113,671
February	106,869
March	112,538
Total	343,078



Figure 5.5 T&F2 Sump locations

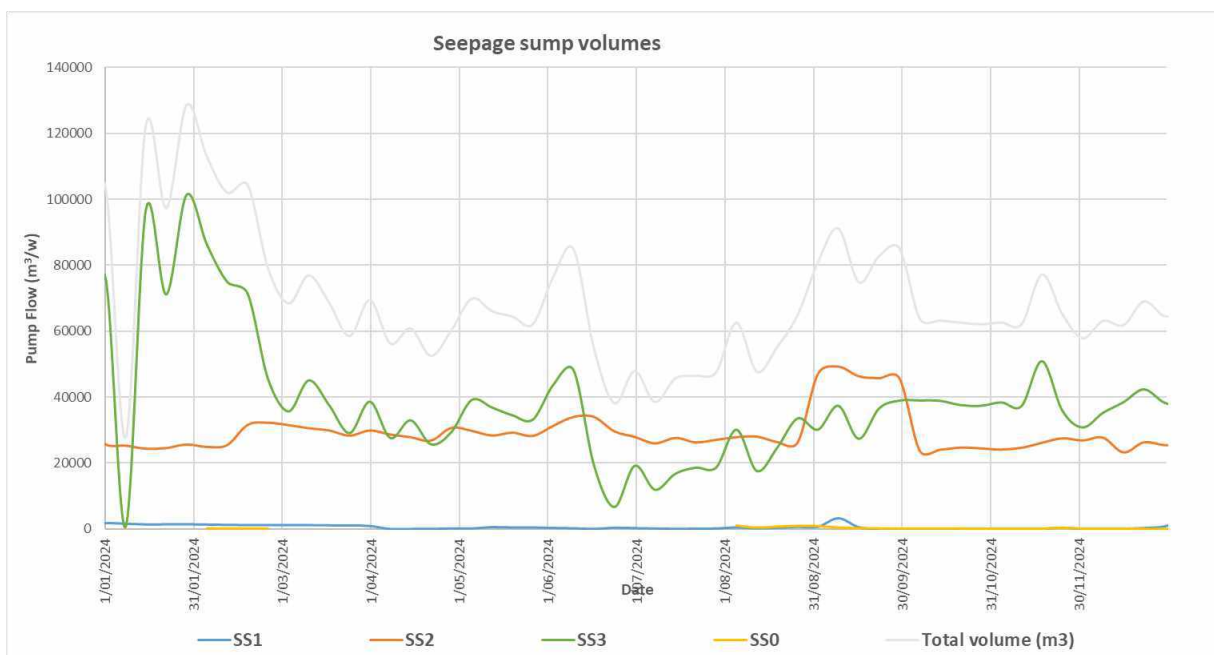


Figure 5.6 Volume of water pumped out of the seepage sumps

5.2.4 Rainfall

The rainfall data was obtained from the Bureau of Meteorology station in Bridgetown¹, Western Australia. The recorded rainfalls are provided in Table 5.5.

The catchment area for TSF2 is 660,782 m². The calculated total inflow into TSF2 due to rainfall was 18,370 m³ for the quarter.

Table 5.5 Rainfall details

Month	Maximum rainfall received in a day (mm)	Total rainfall (mm)
January 2025	5.4	13.4
February 2025	3.2	8.6
March 2025	2.2	5.8
Total		27.8

5.2.5 Evaporation

The monthly recorded evaporation was obtained from the Department of Primary Industries and Regional Development's Balingup Station (BP001)². The recorded pan evaporation at the Balingup station is shown in Table 5.6. A pan coefficient of 0.7 was adopted to adjust the recorded pan evaporation to estimate evaporation from the TSF2 decant pond.

The calculated outflow due to evaporation for the quarter is shown in Table 5.7.

Table 5.6 Recorded pan evaporation at Balingup²

Month	Pan Evaporation (mm)
January 2025	184.5
February 2025	207.2

¹ Station 009617, <http://www.bom.gov.au/climate/dwo/IDCJDW6013.latest.shtml>

² <https://weather.agric.wa.gov.au/station/BP001>

Month	Pan Evaporation (mm)
March 2025	245.7

Table 5.7 Evaporation outflow for TSF2 (m³)

Month	Pond area (m ²)	Evaporation (m ³)	Remarks
January 2025	30,426	3,930	Pond area estimated from aerial survey pdf. Survey file (.tiff) not provided
February 2025	47,256	6,854	Pond area estimated from aerial survey pdf. Survey file (.tiff) not provided
March 2025	65,565	11,277	Pond area calculated from QGIS, from .tiff file
Total		22,060	

5.2.6 Interstitial water loss estimate

The following assumptions were applied to estimate the interstitial water loss:

- The in-situ density of the tailings is 1.4 t/m³
- The tailings are fully saturated
- The tailings SG is 2.67

Table 5.8 presents the estimated interstitial water retained in the tailings for the quarter.

Table 5.8 TSF2 interstitial water

Month	Interstitial water estimate (m ³)
January 2025	22,574
February 2025	22,529
March 2025	8,228
Total	53,331

5.2.7 Water balance summary

The overall water balance for the quarter is presented in Table 5.9.

The difference between the inflows and outflows for the quarter was estimated to be 72,525 m³. The reasons for the surplus balance may be due to combinations of the following:

- The impact of varying decant pond volume is not included in the assessment
- The decant return flowmeter recorded negative flows in January 2025, and more water may have been extracted from the TSF than was recorded.
- The aerial surveys indicate that material was removed from within the TSF during the quarter, which may have impacted drainage within the tailings mass.
- Seepage through the floor of the TSF has not been quantified. However, the seepage collection system is expected to convey the majority of the seepage and seepage through the floor is expected to have only a minor impact on the overall water balance.

Table 5.9 Overall water balance for TSF2

Item	Values (m ³)
Inflow	
Deposition (water)	533,079
Rain inflow	18,370
Total inflow	492,658
Outflow	
Evaporation	22,060
Collected seepage in sumps	343,078
Decant return	1,662
Interstitial loss	53,331
Total outflow	420,133
Balance	72,525

5.3 Piezometers

5.3.1 General

VWPs at TSF2 have been installed in 5 different sections (Sections A to E). The locations of the VWPs are shown in Figure 5.7. A total of 32 piezometers are currently installed in these five locations.

The provided General Piezometer Reports show data from the previous six months. ***In order to assess longer term trends, the piezometer reports should include data from the preceding twelve months.***

Sections 5.3.2 to 5.3.6 describe the piezometers in Sections A to E respectively.

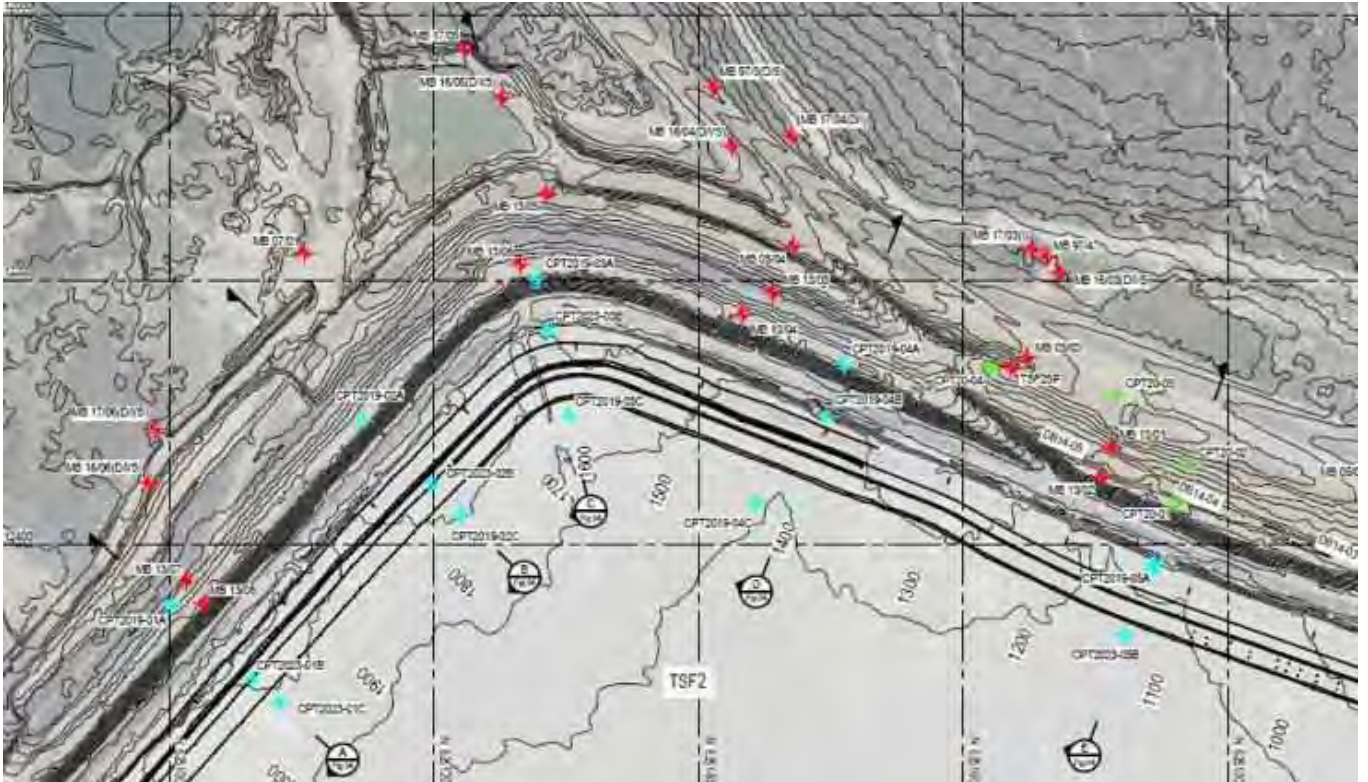


Figure 5.7 TSF2 VWP section locations

5.3.2 Section A

Six VWPs are installed in TSF2 Section A. All the VWPs were active, and the recorded readings were below the trigger level.

A summary of the behaviour of the active VWPs for the quarter is provided in Table 5.10. The VWP quarterly reports, including plots of the VWP readings, are included in Appendix D.

5.3.3 Section B

Seven VWPs are installed in section B in TSF2. All the VWP recorded readings are below the trigger levels with the exception of the VWP CPT2023 -02B Intermediate.

The supplied VWP reports show that readings from CPT2023 -02B Intermediate were above the trigger level for Q4 2024 and Q1 2025. The Q4 2024 data was reviewed and the readings reported in the VWP reports do not match the calculated pressure head in GHD’s 2024 monthly monitoring reports. **The piezometer calibration data used for the previous GHD interpretation and the Talison reporting should be reviewed and compared to determine the cause of this discrepancy.**

A summary of the behaviour of the active VWPs for the quarter is provided in Table 5.11. The VWP quarterly reports, including plots of the VWP readings, are included in Appendix D.

VWPs CPT2019-02C Shallow and Deep, which stopped returning readings in October 2024, have been repaired and recorded readings from the first week in February 2025.

5.3.4 Section C

There are six VWPs installed in Section C. The report received from Talison does not provide data for CPT2023 – 03B (Readout box no. 87285, channel no. 1). **The VWP data should be included in future monitoring data reviews.**

A summary of the behaviour of the active VWPs for the quarter is provided in Table 5.12. The VWP quarterly reports, including plots of the VWP readings, are included in Appendix D.

VWPs CPT2019 – 03C Shallow, Intermediate and Deep, which stopped returning readings in November 2024, have been repaired and recorded readings from the first week in February 2025.

5.3.5 Section D

There are seven VWPs installed in Section D. VWP CPT2019 - 04C deep was damaged and stopped returning readings from September 2023. This VWP was inactive for the quarter. **The VWP should be repaired or replaced.**

VWPs CPT2023 04A deep and shallow were installed in September 2023 and returned readings until March 2024. As of March 2024, CPT2023-04A Shallow reported pore pressures above the trigger level. The VWP recommenced recording readings in February 2025, and the recorded pore pressures were above the trigger level. CPT2023 04A deep has also returned readings above the trigger level. **The cause of the high pore pressure readings is being reviewed.**

VWP CPT2023 04B has been repaired and has recorded readings since February 2025. No trigger level was developed for this VWP when the TSF2 trigger levels were developed in June 2024. **A trigger level should be developed for this VWP.**

A summary of the behaviour of the active VWPs for the quarter is provided in Table 5.13. The VWP quarterly reports, including plots of the VWP readings, are included in Appendix D.

5.3.6 Section E

There are six VWPs installed in section E. Four of these these VWPs were installed in 2023. Two of the VWPs (CPT2019-05A Shallow and Deep), installed in 2019, stopped returning readings in September 2023 and have not been repaired yet (Refer Table 5.15). **These VWPs should be repaired.**

The behaviour of these piezometers is provided in Table 5.14. The VWP quarterly reports, including plots of the VWP readings, are included in Appendix D.

All the VWPs recorded readings below the trigger level for the quarter.

5.3.7 VWPs installed in 2020

Records show that six VWPs were installed in 2020. The six VWPs are currently not returning readings. Refer Table 5.15 for details. **The 2020 piezometers should be repaired or replaced.**

Table 5.10 Review comments for TSF2 VWP (Section A)

Piezo ID	VWP Serial no.	Location	Northing	Easting	Sensor RL (m)	Trigger level (m)	Data received until	Quarterly review comments
CPT2023-01A Deep	80394	Downstream berm	6250985	412430	233.56	250.0	31/03/2025	Decreasing trend for the quarter and overall
CPT2023-01A Shallow	80392				245.56	253.0	31/03/2025	Steady trend for the quarter and overall
CPT2023-01B Shallow	80407	Upstream toe	6251062	412501	248.66	260.0	31/03/2025	Decreasing trend for the quarter and overall
CPT2023-01B Deep	80411				235.66	258.0	31/03/2025	Decreasing trend for the quarter and overall
CPT2023-01C Shallow	80412	Crest	6251083	412519	253.8	263.0	31/03/2025	Decreasing trend for the quarter and overall
CPT2023-01C Deep	80406				240.7	260.0	31/03/2025	Decreasing trend for the quarter and overall

Table 5.11 Review comments for TSF2 VWP (Section B)

Piezo ID	VWP Serial no.	Location	Northin g	Eastin g	Sens or RL (m)	Trigg er level (m)	Data received until	Quarterly review comments
CPT2019-02A Shallow	1901561	Downstream berm	6251147	412307	243.69	248.5	31/03/2025	Increasing trend for the quarter and overall. The piezometer has been reported as damaged.
CPT2019-02A Deep	1901842				233.69	247.5	31/03/2025	Decreasing trend for the quarter and overall
CPT2023-02B Shallow	78704	Upstream toe	6251198	412354	241.83	254.5	31/03/2025	Steady trend for the quarter, decreasing trend overall
CPT2023-02B Intermediate	78687				236.83	253.0	31/03/2025	Decreasing trend, quarterly and overall. Above trigger level.
CPT2023-02B Deep	78688				234.33	252.5	31/03/2025	Decreasing trend, monthly and overall
CPT2019-02C Deep	1901849	Upstream tailings	6251220	412377	239.99	256.0	31/03/2025	Steady for the quarter. Overall decreasing trend. This piezometer has been repaired and has recorded readings since the first week in February 2025.
CPT2019-02C Shallow	1901832				249.99	258.5	31/03/2025	Steady for the quarter. Overall decreasing trend. This piezometer has been repaired and has recorded readings since the first week in February 2025.

Table 5.12 Review comments for TSF2 VWP (Section C)

Piezo ID	VWP Serial no.	Location	Northing	Easting	Sensor RL (m)	Trigger level (m)	Data received until	Quarterly review comments
CPT2019-03A Deep	1901825	Downstream Berm	6251277	412199	235.97	247.4	31/03/2025	Decreasing trend for the quarter and overall
CPT2019-03A Shallow	1901559				243.97	249.0	31/03/2025	Steady and dry (below sensor RL)
CPT2019-03C Shallow	1901838	Upstream tailings	6251302	412302	249.94	259.5	31/03/2025	Steady trend for the quarter and overall
CPT2019-03C Intermediate	1901839				237.94	256.0	31/03/2025	Steady trend for the quarter. Overall decreasing trend
CPT2019-03C Deep	1901848				231.94	254.5	31/03/2025	Decreasing trend for the quarter and overall

Table 5.13 Review comments for TSF2 VWP (Section D)

Piezo ID	VWP Serial no.	Location	Northing	Easting	Sensor RL (m)	Trigger level (m)	Data received until	Quarterly review comments
CPT2023-04A Shallow	80389	Downstream berm	6251513	412253	242.74	250.0	31/03/2025	Steady trend for the quarter and overall. Above the trigger level.
CPT2023-04A Deep	80544				235.24	248.4	31/03/2025	Increasing trend for the quarter and overall. Above the trigger level.
CPT2023-04B	80542	Crest	6251497	412303	243.87	Not developed	31/03/2025	Decreasing trend for the quarter and overall.
CPT2019-04B Shallow	62521				234.87	252.0	31/03/2025	Steady trend for the month and overall
CPT2019-04B Deep	62522				231.87	251.0	31/03/2025	Decreasing trend for the quarter and overall
CPT2019-04C Shallow	1901845	Upstream tailings	6251443	412368	251.29	259.5	31/03/2025	Decreasing trend for the quarter, steady overall

Table 5.14 Review comments for TSF2 VWPs (Section E)

Piezo ID	VWP Serial no.	Location	Northing	Easting	Sensor RL (m)	Trigger level (m)	Data received until	Quarterly review comments
CPT2023-05A Intermediate	78693	Crest	6251743	412419	238.63	252.0	31/03/2025	Steady trend for the quarter, overall decreasing trend
CPT2023-05B Shallow	80417	Upstream tailings	6251722	412468	254.5	257.0	31/03/2025	Decreasing trend for the quarter and overall
CPT2023-05B Intermediate	80418				239.0	253.5	31/03/2025	Decreasing trend for the quarter and overall
CPT2023-05B Deep	80405				232.5	252.5	31/03/2025	Decreasing trend for the quarter and overall

Table 5.15 TSF2 VWPs not returning readings

Piezo ID	VWP Serial no.	Location	Northing	Easting	Sensor RL (m)	Data received until
Section C						
CPT2023-03B	80541	Crest	6251285	412238	244.40	-
Section D						
CPT2019-04C Deep	1901850	Upstream tailings	6251443	412368	238.79	September 2023
Section E						
CPT2019-05A Shallow	1901858	Crest	6251744	412414	235.86	September 2023
CPT2019-05A Deep	1901844				232.86	September 2023
2020 VWPs						
TSF2-CPT20-01	2002735	Downstream berm	6,251,761.00	412,368.02	212.45	No data
TSF2-CPT20-02	2002724	Downstream berm	6,251,771.30	412,339.56	219.39	November 2022
TSF2-CPT20-04	2002719	Downstream berm	6,251,619.99	412,266.69	227.67	April 2024
TSF2-CPT20-05	2002737	Downstream berm	6,251,716.02	412,287.47	238.06	September 2021
TSF2-CPT20-07	2002722	Downstream berm	6,251,957.70	412,384.01	222.29	November 2023
TSF2-CPT20-13	2002721	Downstream berm	6,252,025.70	412,409.56	222.12	September 2023

5.4 Deformation monitoring

5.4.1 Survey pins

There are 16 survey points at TSF2 (TSF277 – TSF289, TSF2-Check1, TSF2-Check2 and TSF2-Check3) which are surveyed monthly.

The movement of the survey points is recorded in the east-west direction, north-south direction and elevation. The movement of the pins is assessed relative to the base survey. The base survey was carried out on 5 June 2024 after the survey pins were installed. The survey pin coordinates are provided in Table 5.16.

Table 5.16 Base Survey for survey pins placed in TSF2 (5 June 2024)

Point ID	Easting (E)	Northing (N)	RL
TSF2-77	8715.333	11592.17	1275.986
TSF2-78	9061.692	11246.97	1280.062
TSF2-79	8917.097	11385.75	1279.954
TSF2-80	8646.607	11525.79	1279.844
TSF2-81	8400.458	11179.5	1279.316
TSF2-82	8180.614	10754.01	1279.531
TSF2-83	8242.521	10650.55	1280.285
TSF2-84	8722.21	10820.78	1281.652
TSF2-85	8231.057	10582.21	1264.956
TSF2-86	8092.746	10773.5	1262.366
TSF2-87	8143.898	10972.63	1262.085
TSF2-88	8434.522	11342.44	1262.158
TSF2-89	8594.49	11571.08	1262.363
TSF2-check1	8320.784	11093.69	1279.712
TSF2-check2	8167.84	10891.56	1279.77
TSF2-check3	8290.558	10573.73	1280.563

The movement of the survey pins up to 31 March 2025 is provided in Figure 5.8, Figure 5.9, Figure 5.10, Figure 5.11, Figure 5.12 and Figure 5.13. The survey data is presented in two plots, (a) and (b), for readability purposes.

No readings were received for TSF2 – 81 and TSF2 Check 2 for the quarter.

The movement of survey pins was compared to the baseline survey, and the relative movement is presented in Table 5.17. The positive movement in east-west direction indicates movement towards the east side, and for the north-south direction, a positive movement indicates movement towards the north direction. The positive RL value indicates a rise in the pin level and a negative value indicates subsidence at that point in the embankment.

Unexpected movements in the order of 1 meter were observed in November 2024 (survey dated 18 November 2024). This movement was due to the site coordinate system being moved to MGA 2020. As a result, the total recorded movement when compared to the baseline survey appears to be significant. However, this is not considered to be an accurate reflection of the actual displacement of the survey pins. **Historical survey readings from June to October 2024 should be transformed to MGA 2020 so long term trends can be identified and assessed.**

The embankment crest has experienced overall settlement of up to approximately 80 mm, corresponding to 0.3% of the 30 m embankment height. This is within the typically expected range for rockfill embankments (Hunter and Fell, 2003).

Table 5.17 Summary of movement of survey pins (17 March 2025)

Survey Pin ID	East-west direction	North-south direction	RL
TSF2-77	1337	1217	-18
TSF2-78	1338	1160	-10
TSF2-79	1334	1175	-38
TSF2-80	1342	1182	-11
TSF2-81	No data received	No data received	No data received
TSF2-82	1348	1179	-57
TSF2-83	1350	1172	-79
TSF2-84	1356	1167	-35
TSF2-85	1343	1160	-61
TSF2-86	1315	1199	-39
TSF2-87	1337	1192	-70
TSF2-88	1347	1185	-61
TSF2-89	1347	1170	-52
TSF2-check1	1358	1143	-48
TSF2-check2	No data received	No data received	No data received
TSF2-check3	1342	1171	-52

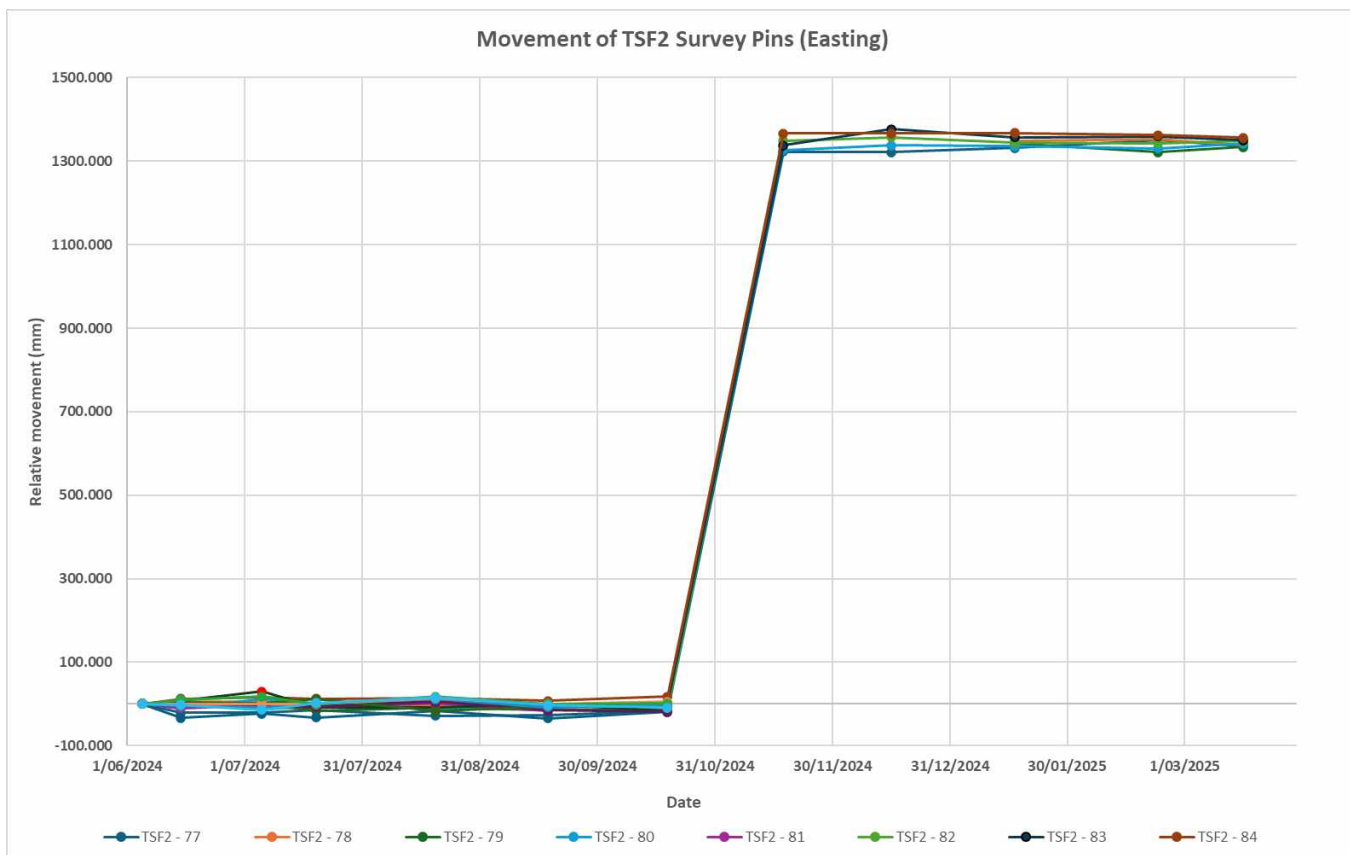


Figure 5.8 Movement of TSF2 survey pins in east – west direction (a)

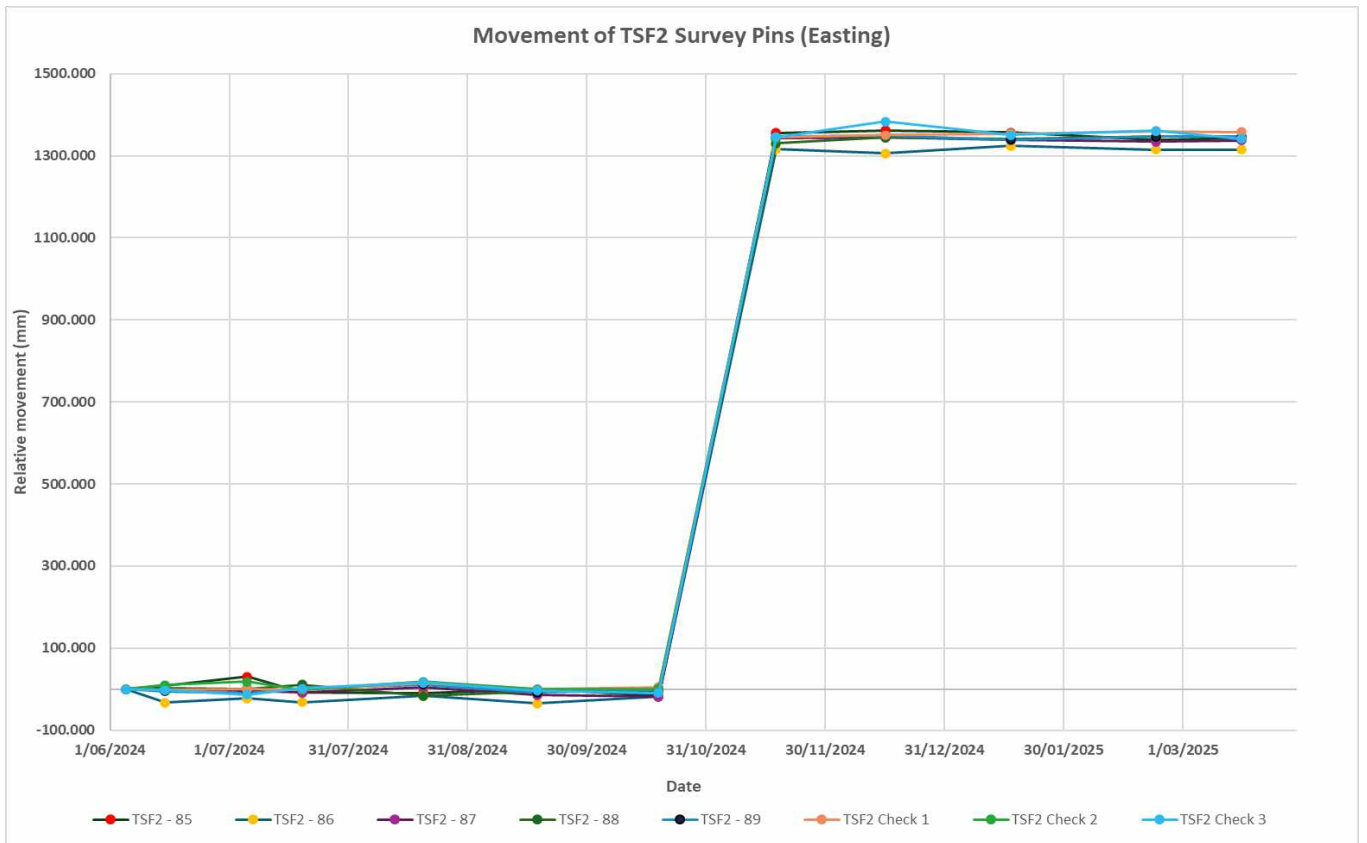


Figure 5.9 Movement of TSF2 survey pins in east – west direction (b)

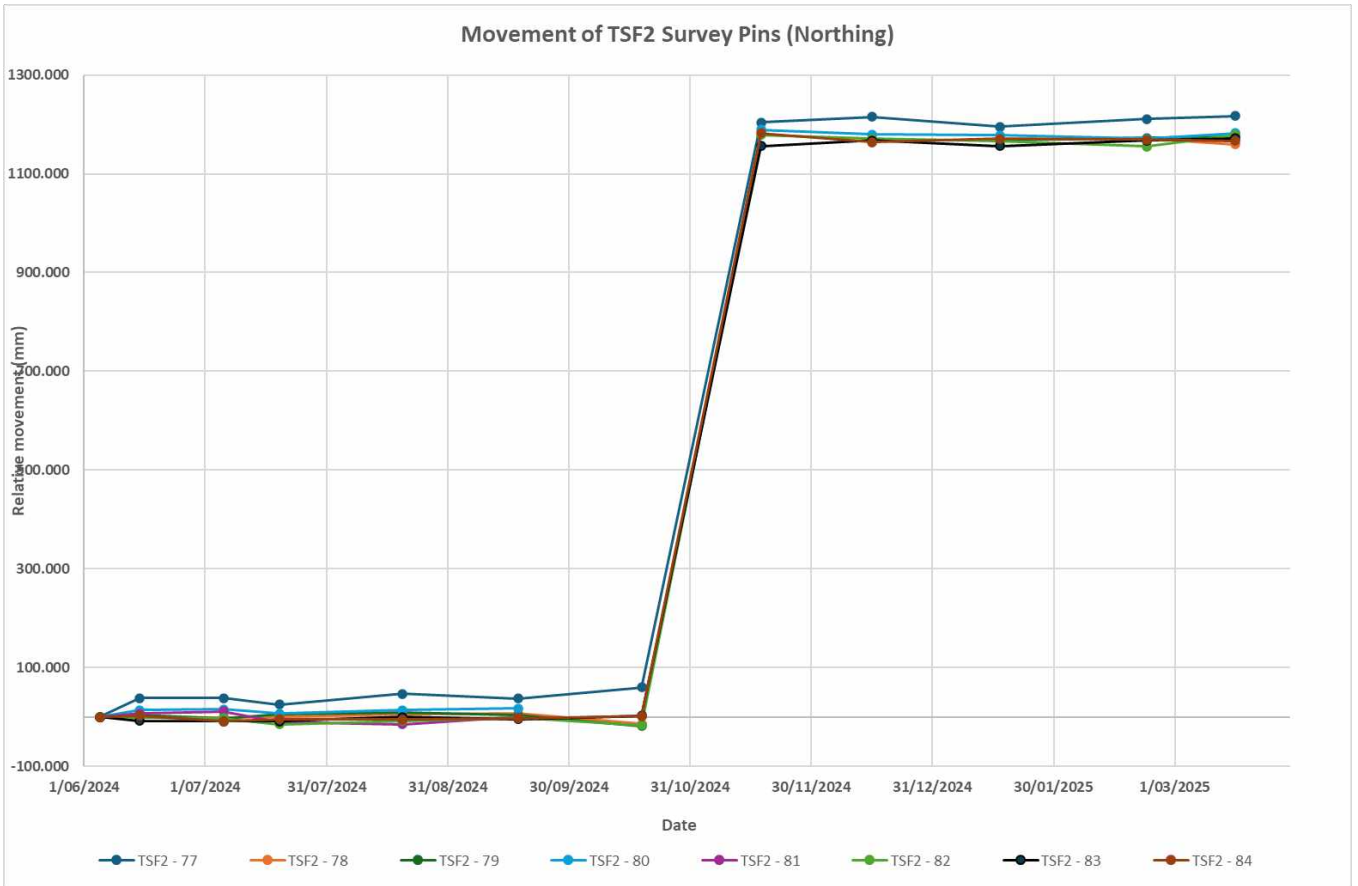


Figure 5.10 Movement of TSF2 survey pins in north - south direction (a)

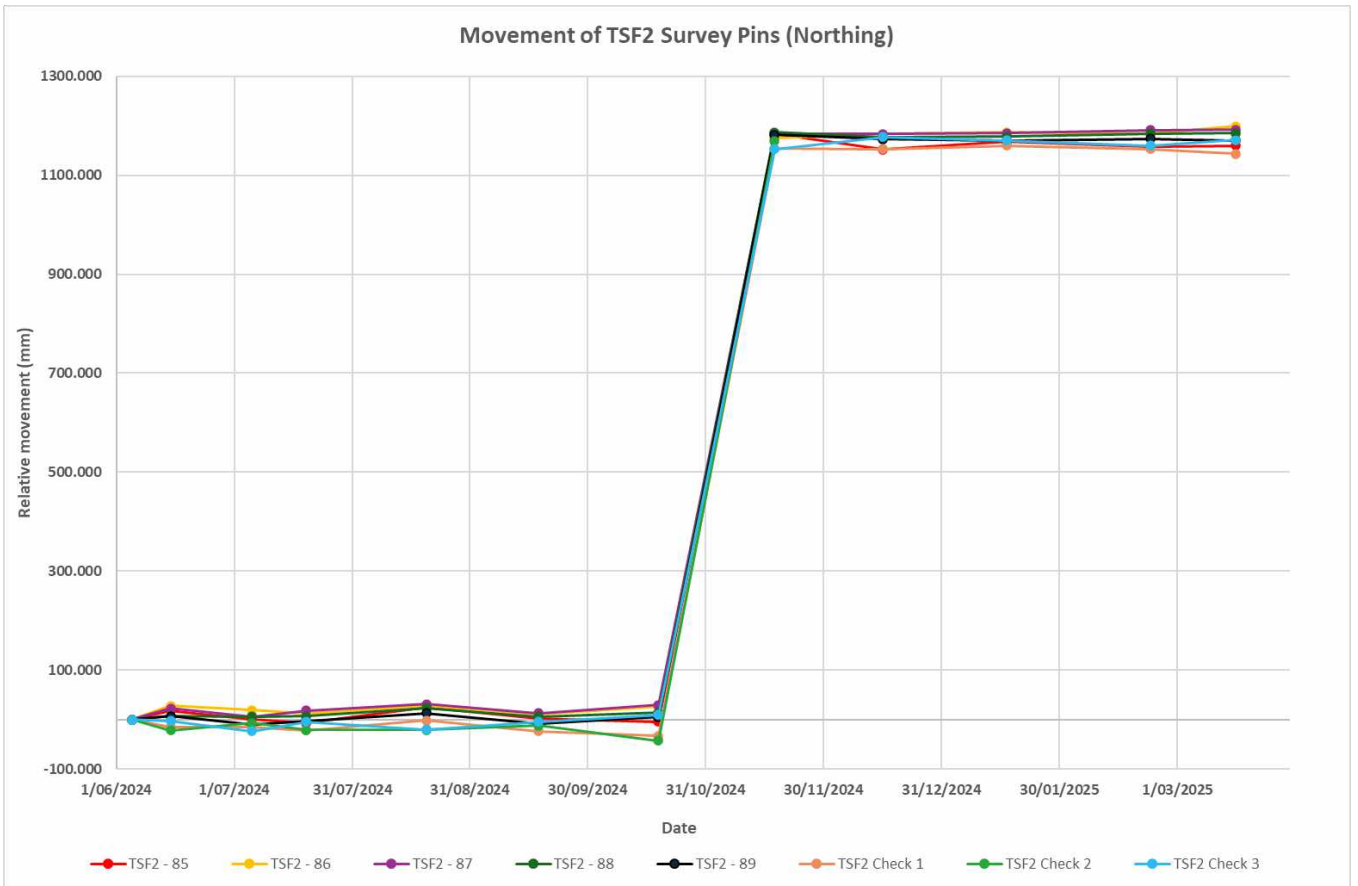


Figure 5.11 Movement of TSF2 survey pins in north - south direction (b)

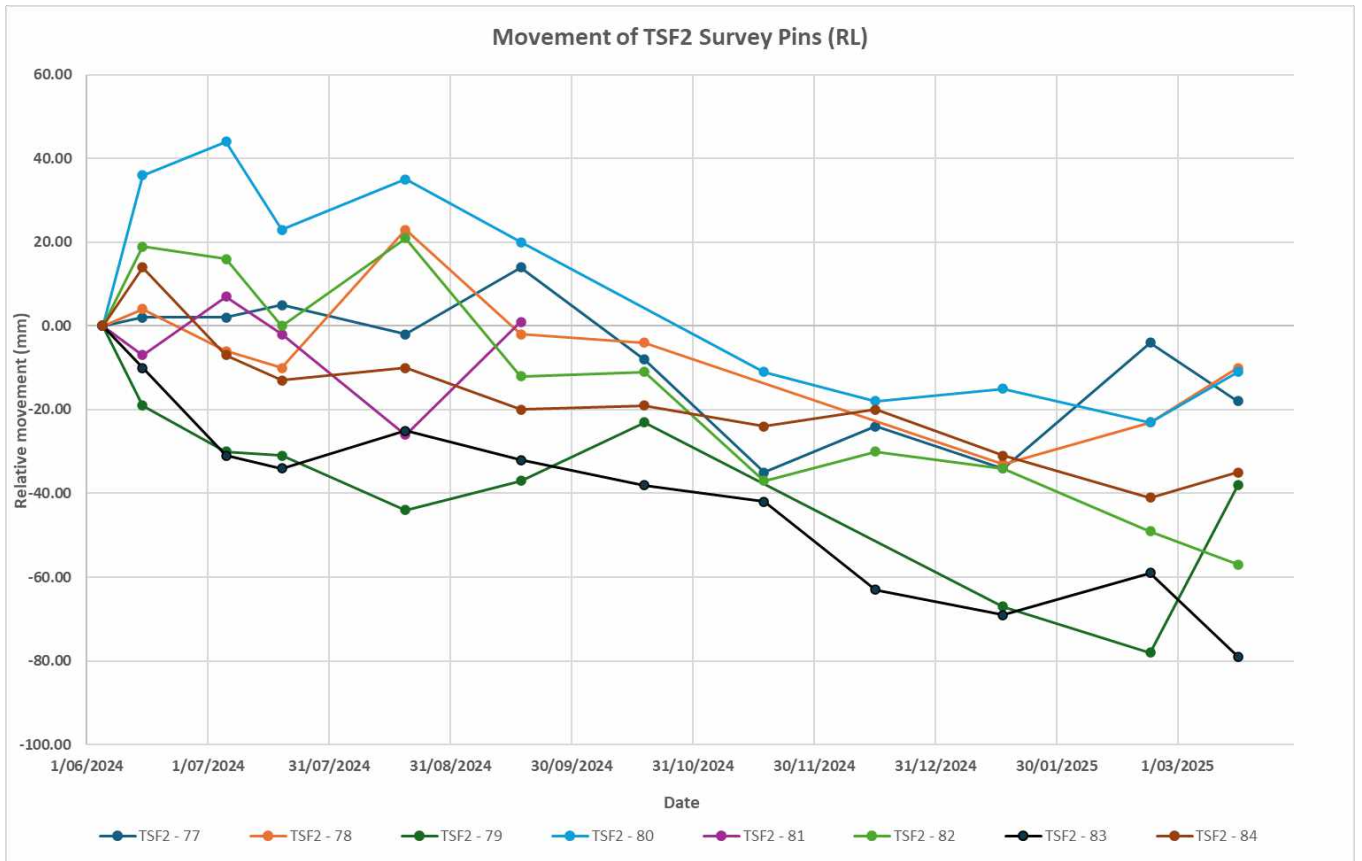


Figure 5.12 Movement of TSF2 survey pins in RL (a)

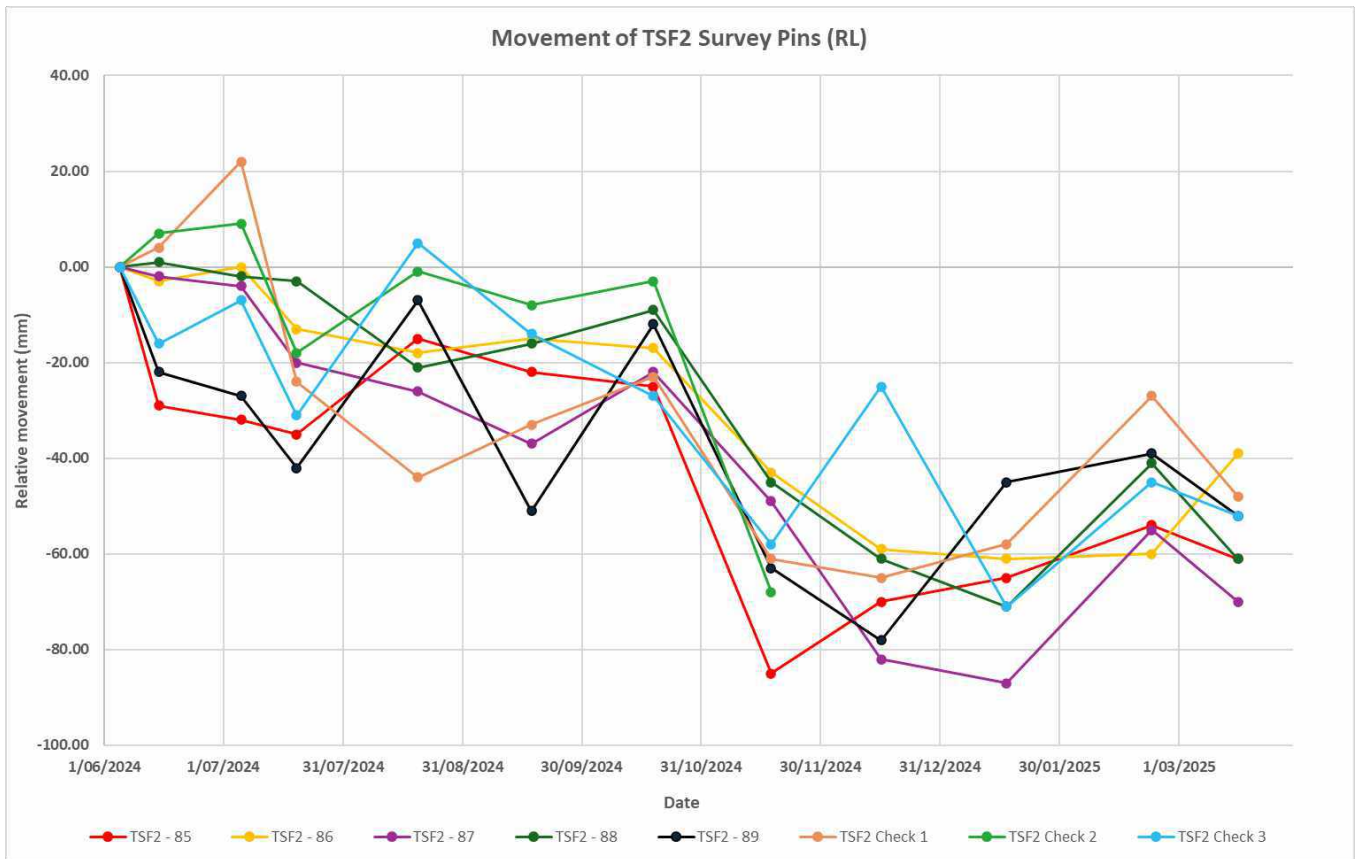


Figure 5.13 Movement of TSF2 survey pins in RL (b)

5.4.2 GNSS deformation monitoring

Readings from six GNSS units for the last two weeks of March 2025 were provided for review. The six GNSS units are:

- GNSS-Maranup-01 (base unit)
- GNSS-TSF2-02
- GNSS-TSF2-03
- GNSS-TSF2-04
- GNSS-TSF2-06
- GNSS-TSF2-07

The recorded movement is presented in the Tailings Storage Facility GNSS Monitoring Report included in Appendix E. The provided GNSS Monitoring Reports included data from the previous six months.

In 2024 seven GNSS units were reported. GNSS-TSF2-05 was not included in the provided Tailings Storage Facility GNSS Monitoring Report.

GNSS-TSF2-03 recorded a significant displacement around 19 March 2025 of over 1 m however has since returned to recording minimal displacement. As a result, the readings around 19 March are not considered to be representative of actual displacement and have been disregarded.

The GNSS data shows no significant displacement however it is difficult to assess any trends in data due to the scale of the graphs. ***The GNSS graphs Y axis scale is recommended to be changed to improve readability. The extents should be +/- 0.5 m.***

6. TSF3

6.1 Piezometers

Six piezometers are installed in TSF3.

All the piezometers in TSF3 are operational and recording readings below the sensor level. A summary of the behaviour of the VWP's for the quarter is presented in Table 6.1.

Table 6.1 *Review comments for TSF3 VWP*s

Piezo ID	Serial no.	Northing	Easting	Sensor RL (m)	Data received until	Review Comments (December 2024)
TSF3-VWP2023 -1A Shallow	80537	411836.039	411836.039	252.75	31/12/2024	Dry (Below the sensor level)
TSF3-VWP2023 -1A Deep	80543			248.75	31/12/2024	Dry (Below the sensor level)
TSF3-VWP2023 -2A Shallow	80364	411884.016	6250732.54	247.84	31/12/2024	Dry (Below the sensor level)
TSF3-VWP2023 -2A Deep	80545			243.84	31/12/2024	Dry (Below the sensor level)
TSF3-VWP2023 -3A Shallow	80395	411920.217	6250729.342	250.84	31/12/2024	Dry (Below the sensor level)
TSF3-VWP2023 -3A Deep	80209			246.84	31/12/2024	Dry (Below the sensor level)

7. TSF4

7.1 Tailings deposition

7.1.1 Deposition volumes

7.1.1.1 Production data

Based on the monthly production records a total of 3,524,812 m³ of slurry, comprising 920,417 tonnes of tailings solids, was deposited into TSF4 during the quarter.

7.1.1.2 Aerial survey

Tailings were first deposited into TSF4 Cell 1 on 19 January 2024.

The volume of tailings deposited into TSF4 Cell 1 over this quarter is shown in Table 7.1. The volume of tailings was calculated from the monthly aerial surveys, as shown in Appendix G.

Table 7.1 TSF4 deposition volumes

Period	Tailings deposited as per survey (m ³)	Cumulative tailings deposited (m ³)
2024		2,875,611
2025 (Q1)		
January 2025 (up to 21/01/2025)	412,366	3,287,977
February 2025 (up to 23/02/24)	303,698	3,591,675
March 2025 (up to 21/03/24)	223,937	3,752,337

7.1.2 Estimation of remaining capacity

The estimated remaining capacity for TSF4 is shown in Table 7.2. The estimated capacity is calculated by subtracting the deposited volume, based on the aerial survey data provided by Talison, from the total design capacity of the TSF (GHD, 2025).

Table 7.2 TSF4 estimated remaining capacity

	Cell 1 (m ³)	Cell 2 (m ³)	Total (m ³)
Remaining Storage	195,396	559,357	754,753

Based on the rate of tailings deposition provided in the 2024 Deposition Schedule, TSF4 is forecast to be filled to RL 1264.7 m by mid-June 2025. However, GHD expects this calculation is overly conservative due to the following:

- The historical deposition rate (in 2024) has been lower than the 2024 Deposition Schedule rates. A lower rate of deposition would extend the time before the TSF is filled to RL 1264.7 m.
- The volume of deposited tailings is based on survey data which includes the pond volume. This pond volume fluctuates and, if a large pond is present at the time of the survey, could result in an overestimate of the volume that has been deposited.
- Mounding has occurred at the spigots, as shown in Figure 7.1.

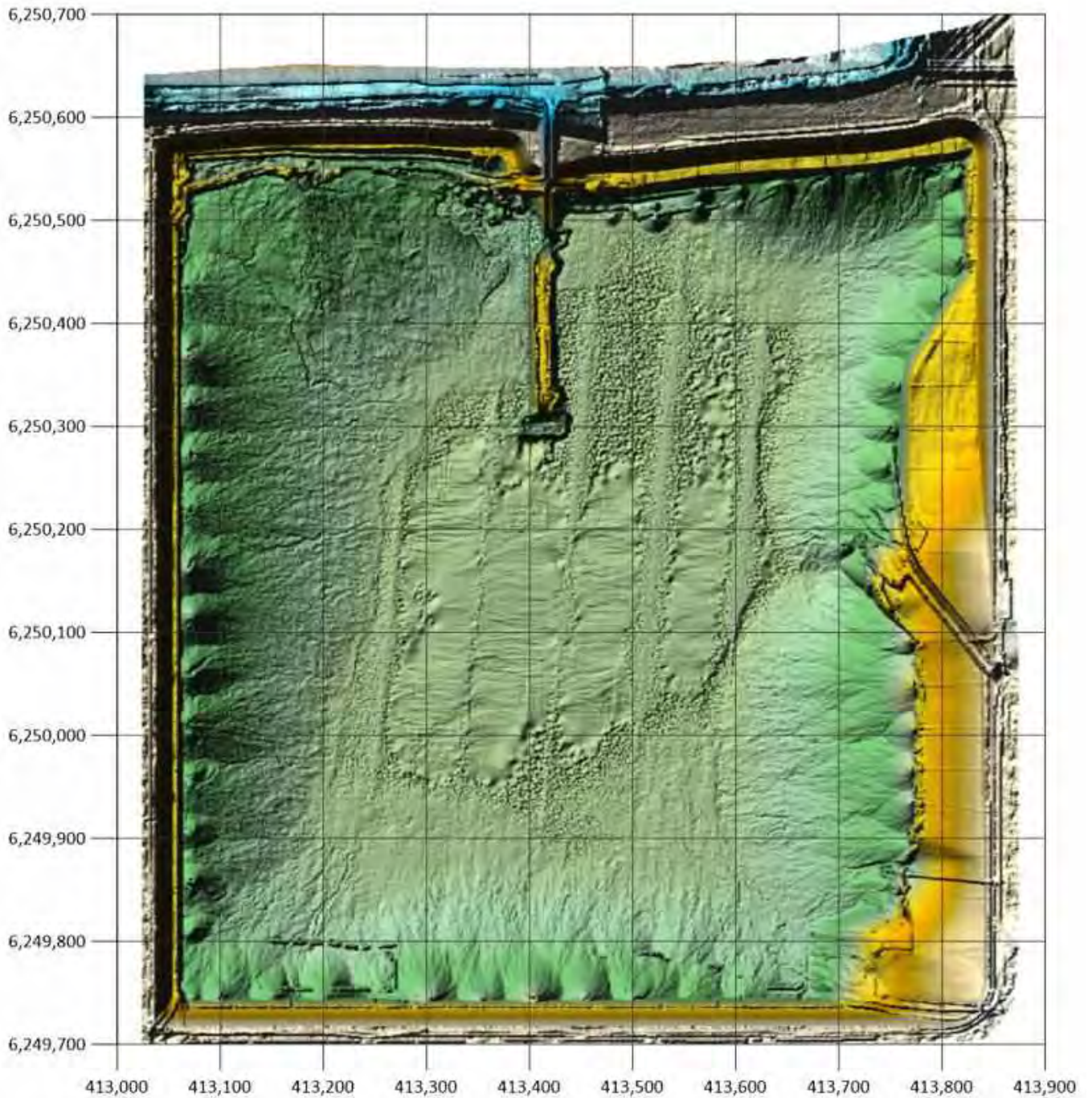


Figure 7.1 TSF4 Cell 1 survey dated 21 March 2025

7.1.3 In-situ tailings density

The reconciled, average tailings in-situ density was estimated using survey and production data provided by Talison. The results are presented in Table 7.3.

The calculated cumulative in-situ density of 1.22 t/m³ is lower than the design assumptions for the facility, however this calculation does not account for the decant pond. If the decant pond volume is excluded the estimated in-situ density will increase. It noted that the density will fluctuate monthly due to the impact of the decant pond on the surveyed volumes.

Table 7.3 TSF4 Cell 1 reconciled dry density

Date from	Date to	Total Solids deposited in TSF4 (t)	Tailings volume as per survey (m ³)	Volume of sand platform (m ³)	Net tailings increase (m ³)	Density* (t/m ³)
19/01/2024	31/03/2025	4,143,974	3,815,612	423,574	3,392,038	1.22

*Cumulative over the life of the facility

7.2 Water balance

7.2.1 Decant pond levels

The recorded daily decant pond levels at TSF4 Cell 1 are shown in Figure 7.2 and Figure 7.3. No readings were available from 8 to 25 March 2025. The decant level remained below the maximum operating level at all times.

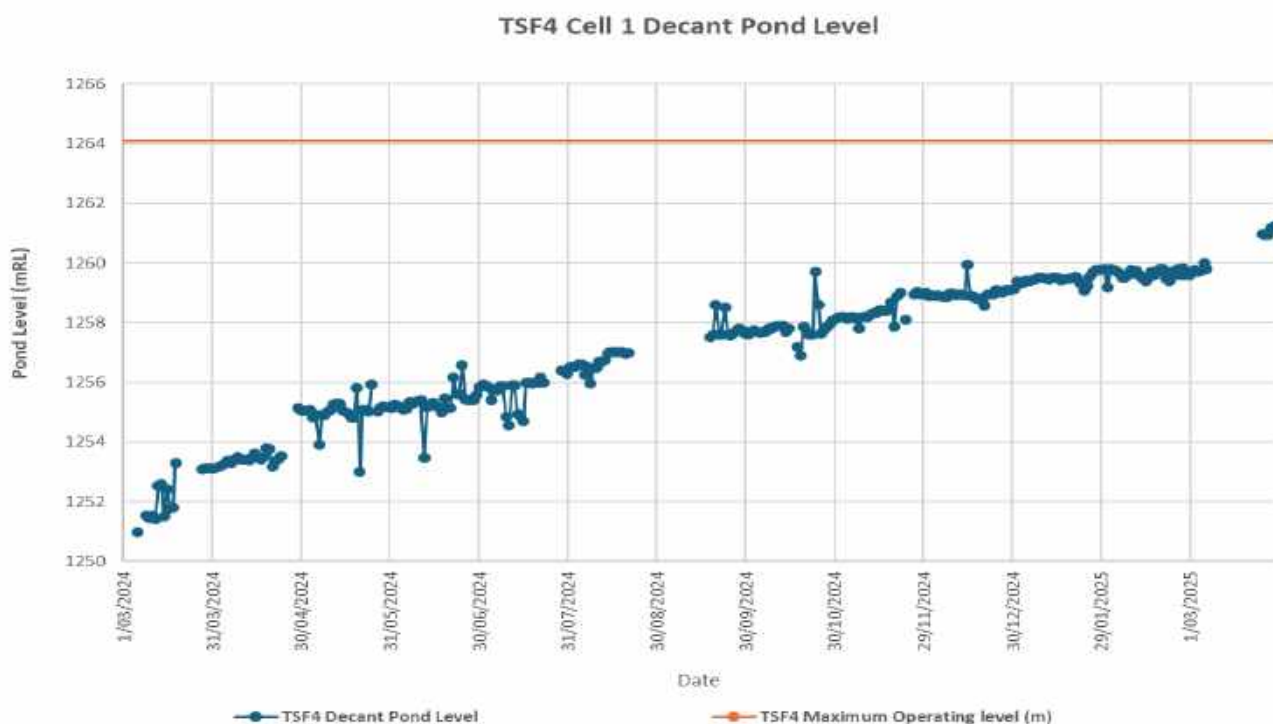


Figure 7.2 Decant Pond level for TSF4 Cell 1

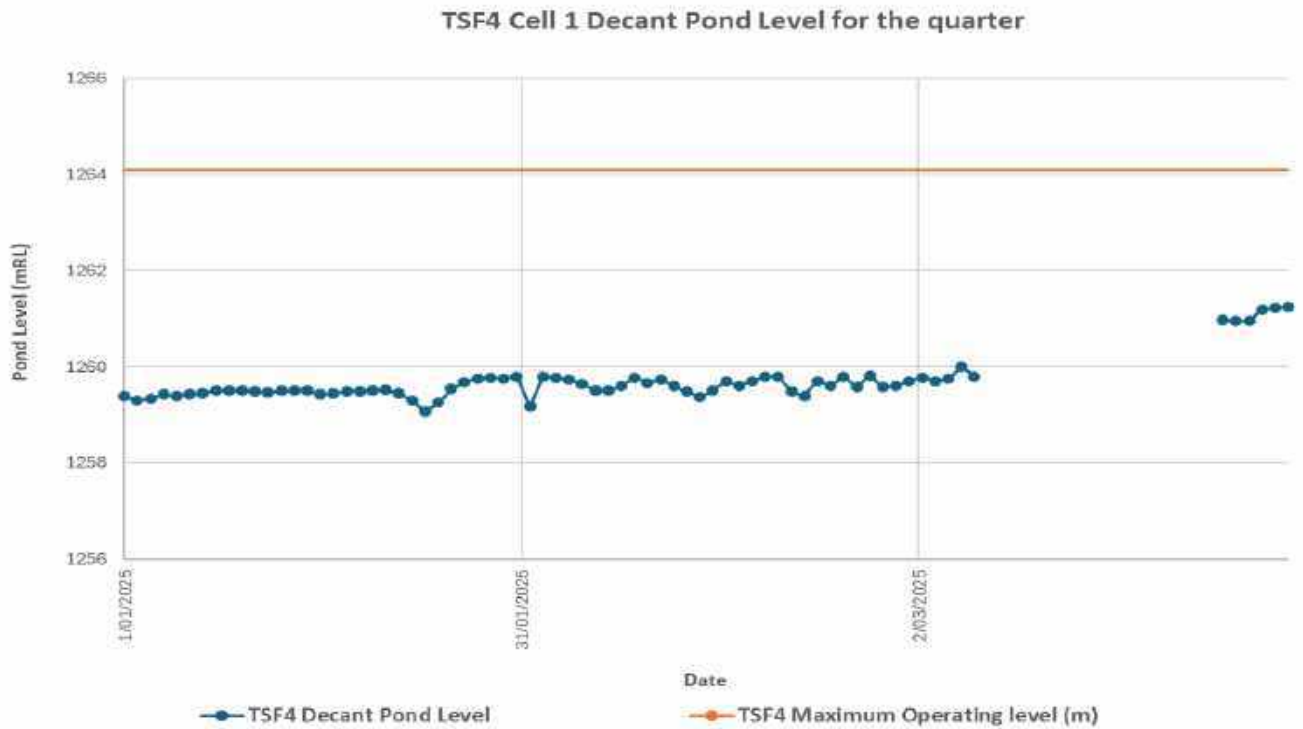


Figure 7.3 Decant pond level for TSF4 Cell 1 (January - March 2025)

7.2.2 Decant return water volume

The volume of decant water pumped from the TSF4 Cell 1 decant pond to CWD is shown in Table 7.4.

Table 7.4 Decant water return volume (m³)

Period	TSF4 Decant to CWD (Pump PP62)	TSF4 Decant to CWD (Pump PP112)	Monthly Total
January 2025	661,714	466,191	1,127,905
February 2025	294,833	672,919	967,752
March 2025	551,308	262,485	813,793
Quarter total			2,909,450

7.2.3 Seepage sump flows

There are two collection sumps associated with TSF4 Cell 1, Sump A & Sump B. A total of **32,127 m³** was pumped from these two sumps between 1 January 2025 and 31 March 2025. Figure 7.4 shows the seepage sump flows for the year to date.

The water collected in the collection sumps is pumped back to the decant pond.

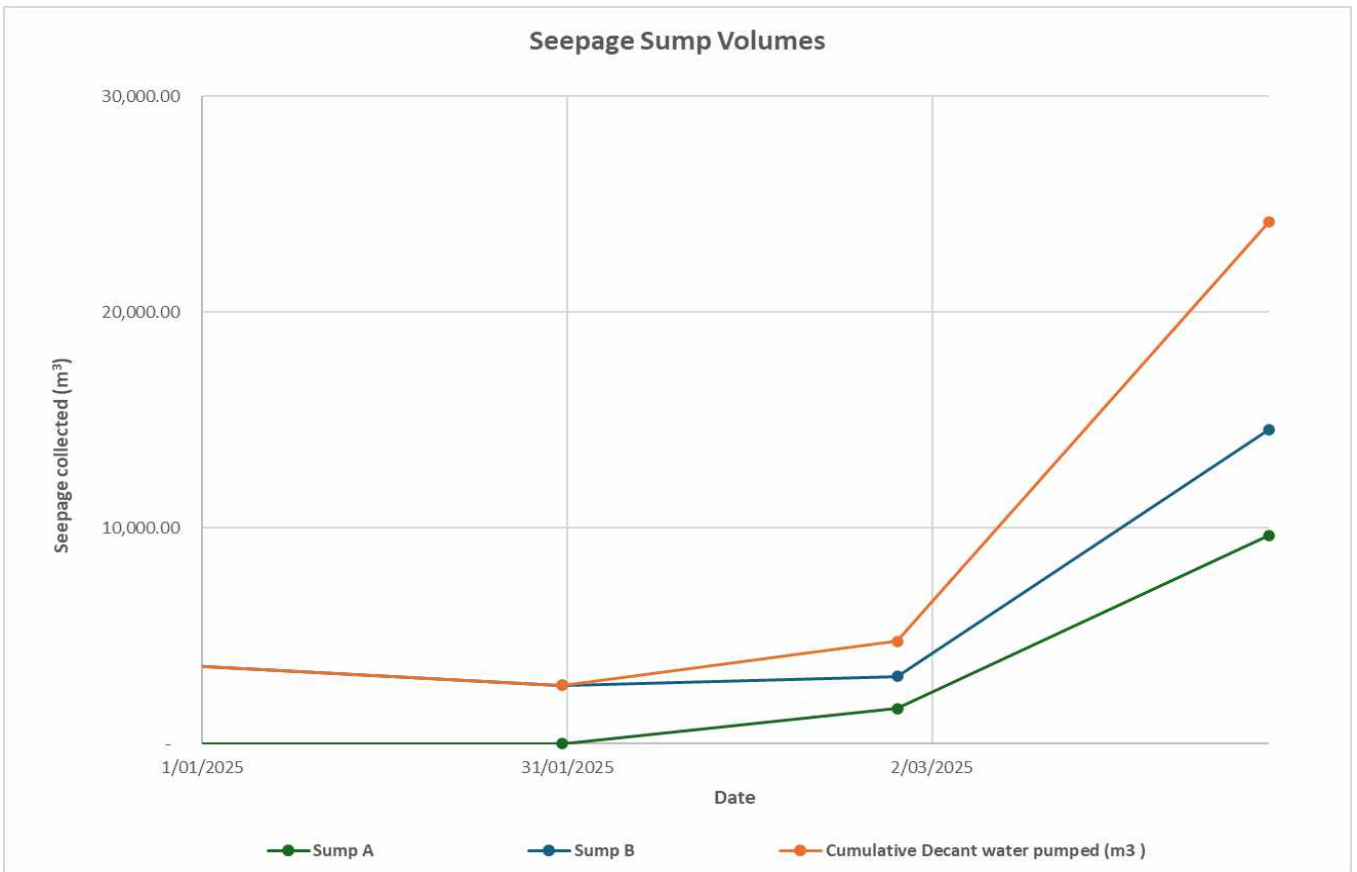


Figure 7.4 Volume of water pumped in Sumps A and B

7.2.4 Rainfall

The rainfall data adopted for TSF2 was also adopted for TSF4. Refer to Section 5.2.4 for details.

The catchment area for TSF4 Cell 1 is 817,360 m². The calculated total inflow into TSF4 due to rainfall was **16,402 m³** for the quarter.

7.2.5 Evaporation

The monthly evaporation rate adopted for TSF2 was also adopted for TSF4. Refer to Section 5.2.5 for details.

The calculated monthly outflow due to evaporation is shown in Table 7.5.

Table 7.5 Evaporation outflow for TSF4 (m³)

Month	Pond area (m ²)	Evaporation (m ³)	Remarks
January 2025	81,008	10,462	Pond area calculated from QGIS, from .tiff file
February 2025	32,389	4,698	Pond area calculated from QGIS, from .tiff file
March 2025	186,740	32,117	Pond area calculated from QGIS, from .tiff file
Total		47,277	

7.2.6 Seepage losses

The assumed seepage rate of 0.013 m³/s/m² which was adopted for the TSF4 RL 1275 m design (GHD, 2025) was also adopted for the purpose of this water balance. Seepage was assumed to occur underneath the tailings beach area in Cell 1.

The estimated seepage losses for January – March 2025 are shown in Table 7.6.

Table 7.6 Seepage losses for TSF4

Month	Seepage loss (m ³)
January 2025	578
February 2025	522
March 2025	578
Total	1,677

7.2.7 Interstitial water loss estimate

The following assumptions were applied to estimate the interstitial water loss:

- The in-situ density of the tailings is 1.4 t/m³
- The tailings are fully saturated
- The tailings SG is 2.67

Table 5.8 presents the estimated interstitial water retained in the tailings for the quarter.

Table 7.7 TSF2 interstitial water

Month	Interstitial water estimate (m ³)
January 2025	109,751
February 2025	82,970
March 2025	124,050
Total	316,771

7.2.8 Water balance summary

The overall water balance is presented in Table 7.8. The overall balance is negative, indicating that more water was removed from the TSF than was added. This balance does not include an allowance for the changing decant pond over the quarter.

Table 7.8 Overall water balance for TSF4

Item	Values (m ³)
Inflow	
Deposition (water)	3,175,616
Rain inflow	22,723
Total inflow	3,198,338
Outflow	
Evaporation	47,277
Decant return	2,909,450
Seepage	1,673
Interstitial loss	316,771

Item	Values (m ³)
Total outflow	3,275,175
Balance	-76,836

7.3 Piezometers

7.3.1 Piezometers installed to monitor pressure during construction

Low strength zones comprising soft clay were identified beneath the very stiff to hard laterite in the southern portion of TSF4 during a geotechnical investigation in June 2018. The nature of the soft clay was such that pore pressures were expected to increase during rapid loading. Three piezometers were installed to monitor the pore pressure in the soft clay layer during construction.

The construction of the TSF4 Cell 1 starter embankment (RL 1265 m) was completed in March 2024. The pore pressure during the construction period remained between the natural ground level (NGL) and the piezometer tip. Sudden increases observed in the graph during the construction period are the result of construction loading. However, the pore pressure dissipated and the VWP's reverted to the background levels once the construction was completed.

Readings from these piezometers were not included in the VWP reports provided for the period January 2025 to March 2025. **These piezometers should be included in the VWP reports.**

GHD had previously received raw data from these piezometers, and this was used to review the piezometers' behaviour for the quarter. Review comments for these VWPs is summarised in Table 7.9 and the readings are shown in Figure 7.5.

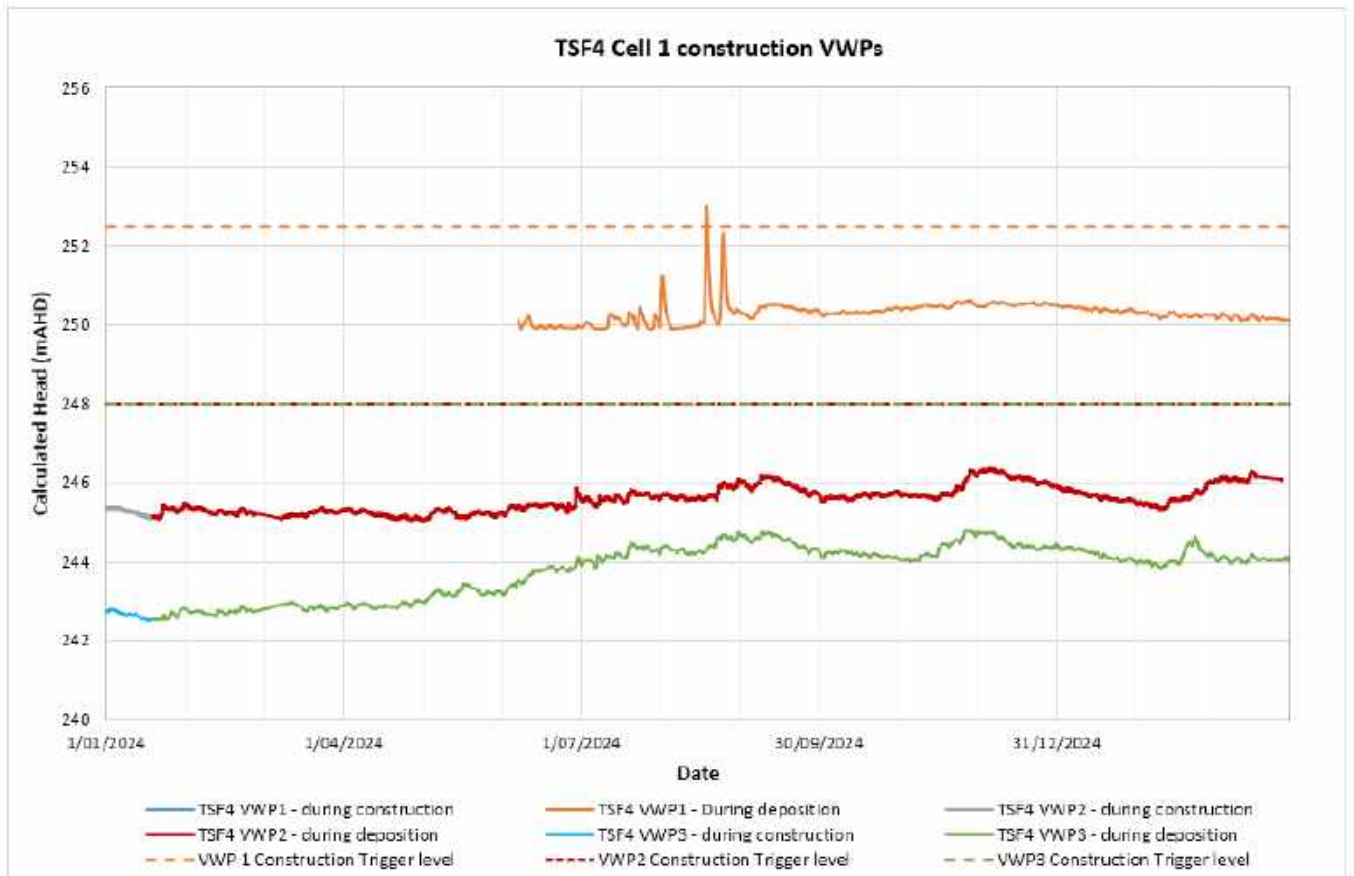


Figure 7.5 Construction VWPs (TSF4 Cell 1)

7.3.2 Piezometers installed to monitor pressure during operation

7.3.2.1 TSF4 Cell 1

23 VWP's were installed in TSF4 Cell 1. PZ01A appeared to be recorded as PZ 01B in the provided General Piezometer Reports. **This should be reviewed and corrected to PZ01A in the monitoring database.** PZ 09A, which had stopped returning readings in November 2024, is now repaired and recorded readings from the first week in February 2025. PZ10 was reported as damaged.

All other VWP's returned readings below the trigger levels.

VWP's TSF4-PZ03A and TSF4-PZ03B showed an increase over the quarter. Review of the data showed that both VWP's were recording similar pressures as shown in Figure 7.6. Based on the location of these VWP's, which are adjacent to the underdrainage, and the installation locations of the VWP's, within the impoundment but below and above the clay lining respectively, this behaviour is unexpected and indicates a hydraulic connection between the two VWP's. The VWP's are located in an inaccessible area within the impoundment. The impact of the VWP behaviour should be investigated.

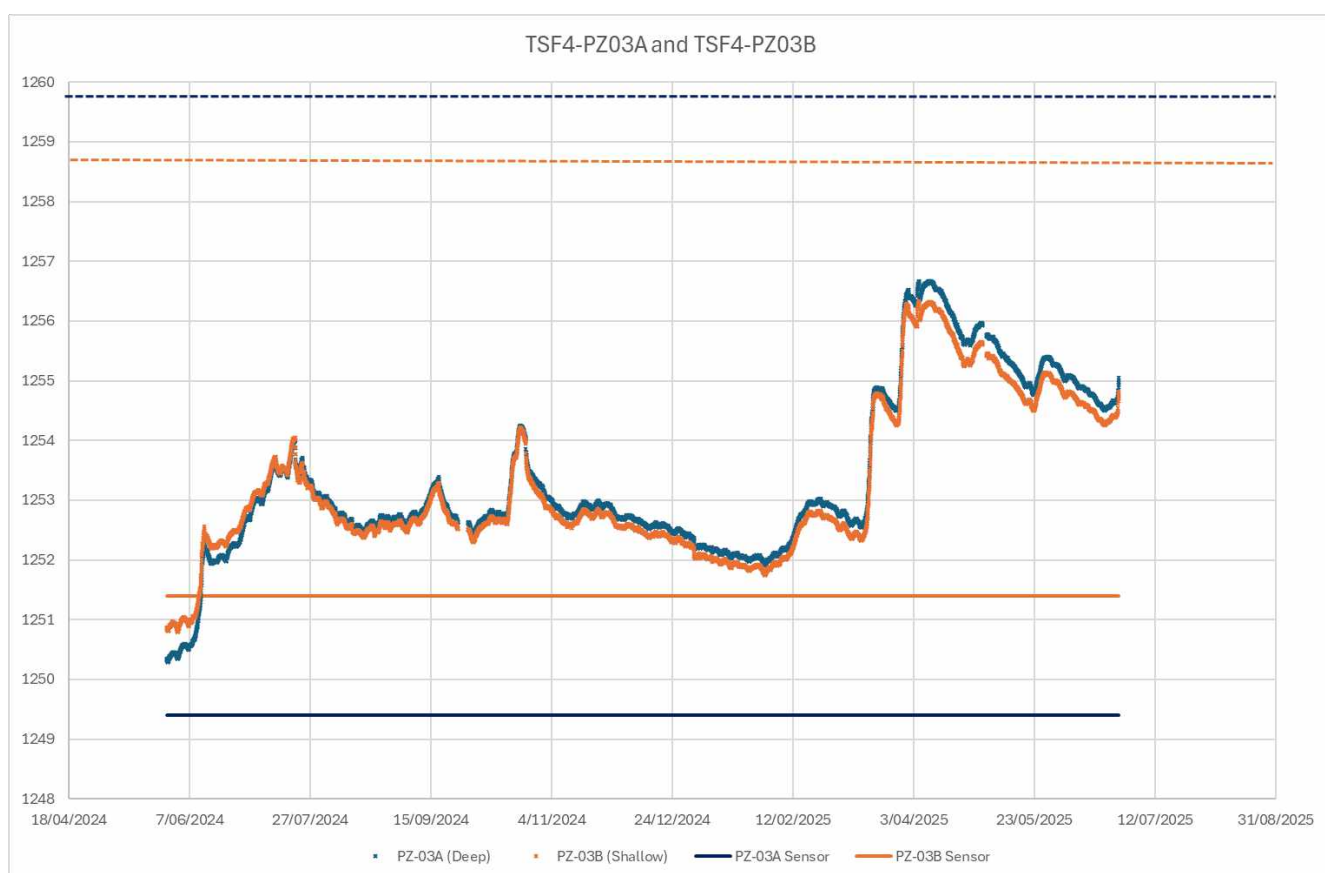


Figure 7.6 TSF4-PZ03A and TSF4-PZ03B

A summary of the behaviour of the active VWP's for the quarter is provided in Table 7.10. The VWP quarterly reports, including plots of the VWP readings, are included in Appendix D. The average pore pressures, compared to the trigger levels, are shown in to .

7.3.2.2 TSF4 Cell 2

15 VWP's were installed in TSF4 Cell 2. All the VWP's except VWP TSF4 PZ-10 were working and returned readings below the trigger levels. VWP TSF4 PZ-10 is under review and is scheduled for replacement in Q2 2025.

A summary of the behaviour of the active VWP's for the quarter is provided in Table 7.11. The VWP quarterly reports, including plots of the VWP readings, are included in Appendix D. The average pore pressures, compared to the trigger levels, are shown in to .

Table 7.9 Review comments for TSF4 construction VWP's

Piezo ID	Serial no.	Easting	Northing	Sensor RL (m)	Trigger level (m)	Data received until	Quarterly review comments
TSF4-VWP1	1832267	412856	6249618	249.9	252.5	31/03/2025	Decreasing trend
TSF4-VWP2	1701537	413054	6249623	240.5	248.0	31/03/2025	Varying trend
TSF4-VWP3	1800721	413132	6249626	239.9	248.0	31/03/2025	Varying trend

Table 7.10 Review comments for TSF4 Cell 1 VWP's

Piezo ID	Serial no.	Easting	Northing	Sensor RL (m)	Trigger level (m)	Data received until	Quarterly review comments
TSF4 - PZ01A	80246	413,831	6,250,518	258.8	263.0	31/03/2025	Dry (below sensor level)
TSF4 - PZ01C	369097	413,863	6,250,518	263.2	263.2	31/03/2025	Dry (below sensor level)
TSF4 - PZ01D	369093	413,863	6,250,518	254.6	260.5	31/03/2025	Approximately at sensor level for the quarter
TSF4 - PZ01E	369101	413,870	6,250,518	263.4	263.4	31/03/2025	Dry (below sensor level)
TSF4 - PZ01F	369085	413,870	6,250,518	257.7	261.0	31/03/2025	Dry (below sensor level)
TSF4 - PZ02A	80320	413,536	6,249,743	253.9	259.0	31/03/2025	Dry (below sensor level)
TSF4 - PZ02B	79276	413,536	6,249,743	255.9	260.0	31/03/2025	Dry (below sensor level)
TSF4 - PZ02C	369099	413,536	6,249,701	260.3	260.3	31/03/2025	Approximately at sensor level for the quarter
TSF4 - PZ02D	369081	413,536	6,249,701	250.3	258.5	31/03/2025	Increasing trend for the quarter and overall
TSF4 - PZ02E	369096	413,536	6,249,685	260.8	260.8	31/03/2025	Dry (below sensor level)
TSF4 - PZ02F	79269	413,536	6,249,685	253.8	257.0	31/03/2025	Dry (below sensor level)
TSF4 - PZ03A	79266	413,161	6,249,753	249.4	257.0	31/03/2025	Increasing trend for the quarter and overall
TSF4 - PZ03B	79267	413,161	6,249,753	251.4	258.0	31/03/2025	Increasing trend for the quarter and overall
TSF4 - PZ03C	77969	413,161	6,249,701	251.0	258.0	31/03/2025	Dry (below sensor level)
TSF4 - PZ03D	369092	413,161	6,249,701	241.0	256.0	31/03/2025	Steady trend for the quarter and overall
TSF4 - PZ03E	369446	413,161	6,249,666	250.7	254.0	31/03/2025	Dry (below sensor level)

Piezo ID	Serial no.	Easting	Northing	Sensor RL (m)	Trigger level (m)	Data received until	Quarterly review comments
TSF4 - PZ03F	369441	413,161	6,249,666	243.7	253.0	31/03/2025	Decreasing trend for the quarter and increasing overall
TSF4 - PZ07	369094	413,882	6,250,485	250.0	260.0	31/03/2025	Decreasing trend for the quarter and increasing overall
TSF4 - PZ08	369100	413,327	6,249,679	234.0	250.0	31/03/2025	Decreasing trend for the quarter and increasing overall
TSF4 - PZ09A	370015	413,018	6,250,010	249.5	251.00	31/03/2025	Steady trend for the quarter and overall
TSF4 - PZ09B	370006	413,018	6,250,010	259.50	259.50	31/03/2025	Dry (below sensor level)
TSF4 - PZ11	369090	413,394	6,249,627	248.4	248.4	31/03/2025	Dry (below sensor level)

Table 7.11 Review comments for TSF4 Cell 2 VVPs

Piezo ID	Serial no.	Easting	Northing	Sensor RL (m)	Trigger level (m)	Data received until	Quarterly review comments
TSF4 - PZ04A	369041	412867	6249838	255.5	259.0	31/03/2025	Steady trend for the quarter and overall. Dry at times.
TSF4 - PZ04C	369088	412867	6249701	261.2	261.2	31/03/2025	Dry (below sensor level)
TSF4 - PZ04D	369089			251.2	257.0	31/03/2025	Steady long term trend. Approximately at sensor level for the quarter.
TSF4 - PZ04E	369087	412867	6249686	261.1	261.1	31/03/2025	Dry (below sensor level)
TSF4 - PZ04F	369084			254.1	256.0	31/03/2025	Decreasing trend quarterly and overall
TSF4 - PZ05A	79292	412428.414	6250613.972	256.70	256.7	31/03/2025	Decreasing long term trend. Approximately at sensor level for the quarter.
TSF4 - PZ05B	80241			246.70	253.0	31/03/2025	Decreasing trend for the quarter, steady overall
TSF4 - PZ05C	79283	412444.191	6250568.48	257.60	259.0	31/03/2025	Dry (below sensor level)
TSF4 - PZ05D	79273			247.60	257.0	31/03/2025	Decreasing trend for the quarter, steady overall
TSF4 - PZ05E	369060	412459.555	6250523.851	257.10	260.0	31/03/2025	Steady trend quarterly and overall. Dry at times.

Piezo ID	Serial no.	Easting	Northing	Sensor RL (m)	Trigger level (m)	Data received until	Quarterly review comments
TSF4 - PZ06A	79270	412515.209	6250644.074	255.70	255.7	31/03/2025	Dry (below sensor level)
TSF4 - PZ06B	79264			245.70	252.0	31/03/2025	Decreasing trend for the quarter and overall
TSF4 - PZ06C	79293	412530.986	6250598.582	258.50	262.0	31/03/2025	Steady trend for the quarter and overall
TSF4 - PZ06D	80311			248.50	258.0	31/03/2025	Decreasing trend for the quarter, steady overall
TSF4 - PZ06E	80229	412557	6250593	254.10	263.0	31/03/2025	Dry (below sensor level)

Table 7.12 Piezometers in TSF4 Cell 1 & 2 not returning readings

Piezo ID	Serial no.	Easting (m)	Northing (m)	Sensor RL (m)	Comment
Cell 1					
TSF4 – PZ10	369095	413,279	6,249,627	248.4	Receiving readings but has been labelled as damaged.

7.4 Deformation monitoring

7.4.1 Survey pins

17 settlement survey pins have been installed at TSF4 Cell 1. The installation details and baseline data for the survey pins are provided in Table 7.13.

No survey data has been received for this quarter.

Table 7.13 Survey markers installation details

Survey Marker	Easting (m)	Northing (m)	RL (m)
SM 01 to 03	Cell 2		
SM 04	413033.1	6250515.54	270.129
SM 05	413032.9	6250315.6	270.100
SM 06	413032.9	6250115.24	270.161
SM 07	413033.7	6249915.31	270.070
SM 08	Cell 2		
SM 09	413048.9	6249713.08	270.178
SM 10	413251	6249712.96	269.928
SM 11	413451	6249713.02	269.899
SM 12	413651	6249713.06	269.949
SM 13	413850.9	6250529.14	270.107
SM 14	413850.9	6250345.36	270.047
SM 15	413050.1	6249638.97	245.766
SM 16	413244.1	6249638.92	254.763

Survey Marker	Easting (m)	Northing (m)	RL (m)
SM 17	413408.1	6249639	254.845

7.4.2 Inclinerometers

Two inclinometers were installed as part of the RL 1265 m embankment raise. The inclinometer sensor depths are summarised in Table 7.14. The locations of these inclinometers are provided in Appendix B. The inclinometers were raised recently as part of RL 1270 m embankment raise construction works. **The new details are requested to update the inclinometer information.**

Table 7.14 Inclinerometers details (TSF4 Cell 1 and Cell 2)

Inclinometer 01 (IN 01) – Northern Embankment Cell 2			Inclinometer 02 (IN 02) – Southern embankment Cell 1		
Channel no.	Sensor RL (m AHD)	Sensor length (m)	Channel No.	Sensor RL (m AHD)	Sensor length (m)
Channel 1 (Deep)	250.3	2	Channel 1 (Deep)	245.0	2
Channel 2	252.3	2	Channel 2	247.0	2
Channel 3	254.3	2	Channel 3	249.0	2
Channel 4	256.3	2	Channel 4	251.0	2
Channel 5	258.3	2	Channel 5	253.0	2
Channel 6	260.3	2	Channel 6	255.0	2
Channel 7	262.3	2	Channel 7	257.0	2
			Channel 8	259.0	2
			Channel 9	261.0	2
			Channel 10 (Shallow)	263.0	2

The inclinometer measures movement in two directions (north-south direction and east-west direction). Movement in the north or east direction is positive and movement in south or west direction is negative. The recorded movement of Inclinometer no. 1 (IN01) and Inclinometer no. 2 (IN02) over the quarter is provided in Appendix F.

The movements recorded for both inclinometers were within expected limits and the resultant movements for both IN01 and IN02 were approximately 0.02% of the embankment height.

8. Groundwater monitoring and monitoring boreholes

8.1 General

Ground water monitoring is carried out using level data and samples from monitoring boreholes.

The boreholes in TSF1 and TSF2 are damaged and no longer monitored. Once the remaining in TSF1 is complete the purpose of the monitoring boreholes should be reviewed and, if they are required for environmental monitoring purposes, they should be repaired or replaced.

There are no monitoring boreholes in TSF3.

24 ground water monitoring wells were installed along the southern perimeter of TSF4 (referred to as Southern Perimeter Wells) between the 9 May and 29 May 2024. The wells were installed at eight monitoring locations (Refer Figure 8.1) targeting different depths as follows:

- Shallow (targeting the perched laterite zone)

- Intermediate (targeting the saprolitic clays)
- Deep depths (targeting the weathered basement)



Figure 8.1 Southern perimeter wells (24 nos.)

8.2 Ground water quality monitoring

Ground water sampling was undertaken in October 2024 and November 2024. The findings were summarised in the October 2024 monthly monitoring report and the concentrations of the following key elements are presented in Figure 8.2 to Figure 8.5.

- Arsenic, As
- Lead, Pb
- Lithium, Li
- Nickel, Ni

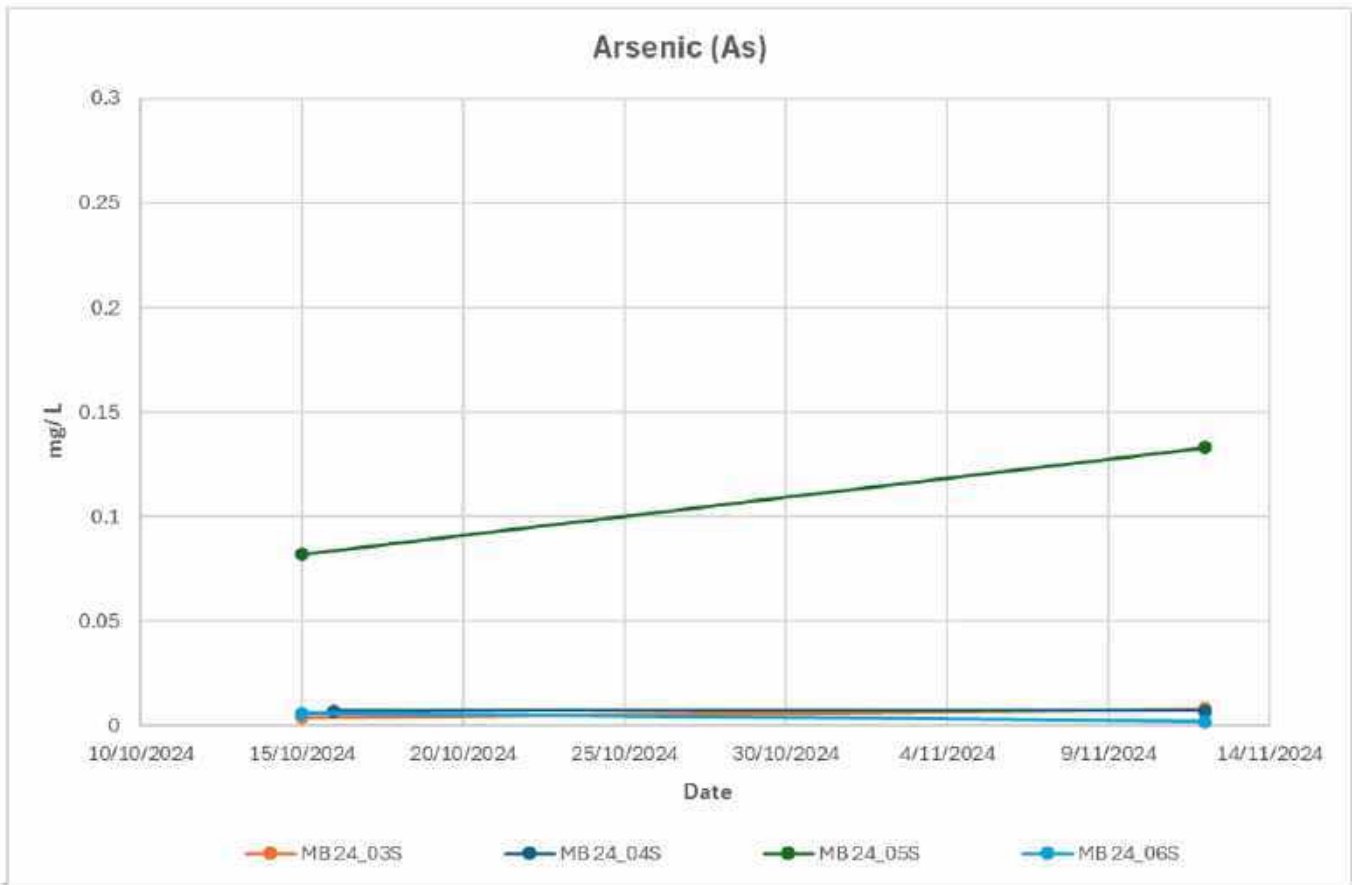


Figure 8.2 Concentration of Arsenic in monitoring boreholes

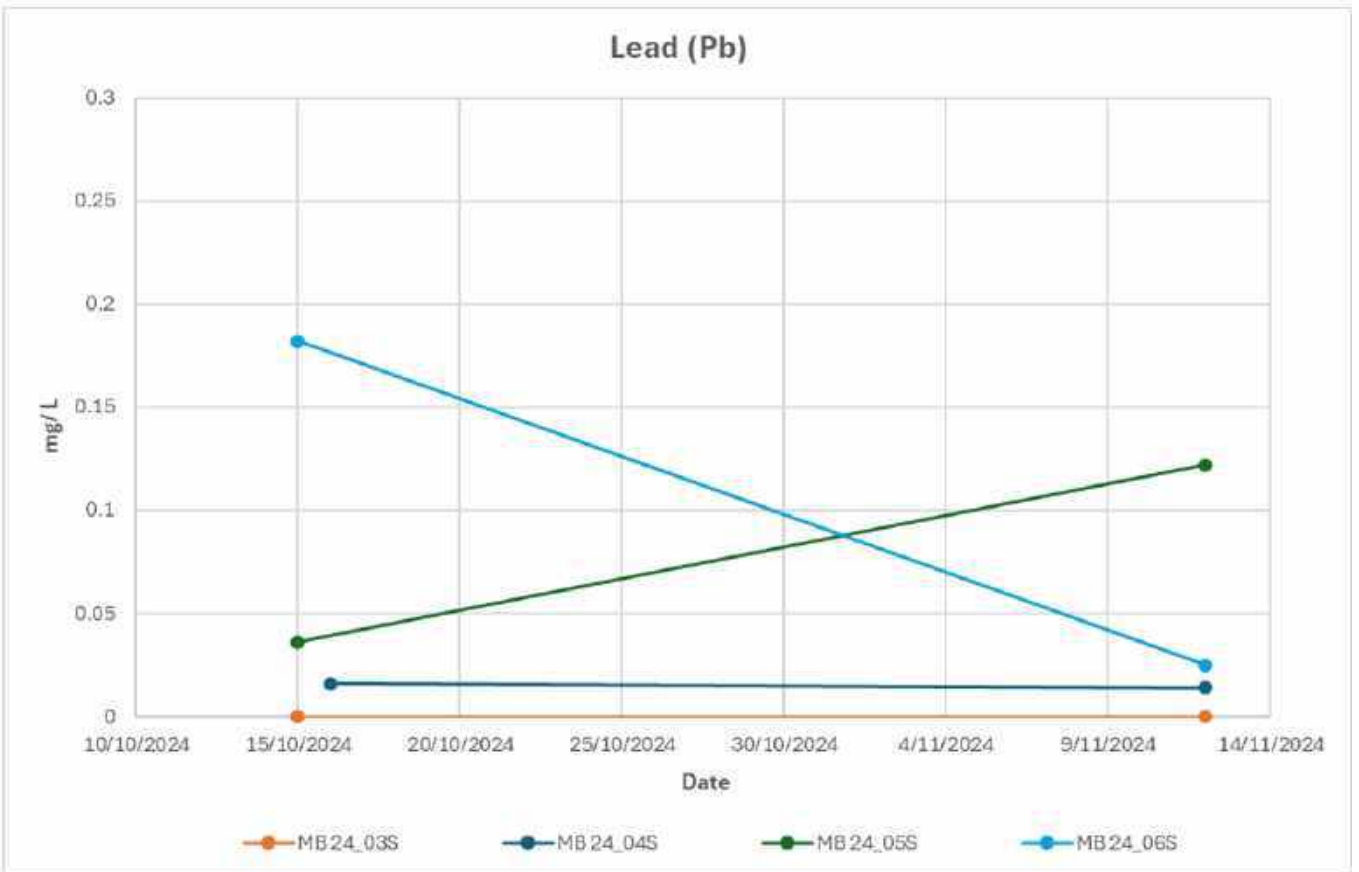


Figure 8.3 Concentration of Lead in monitoring boreholes

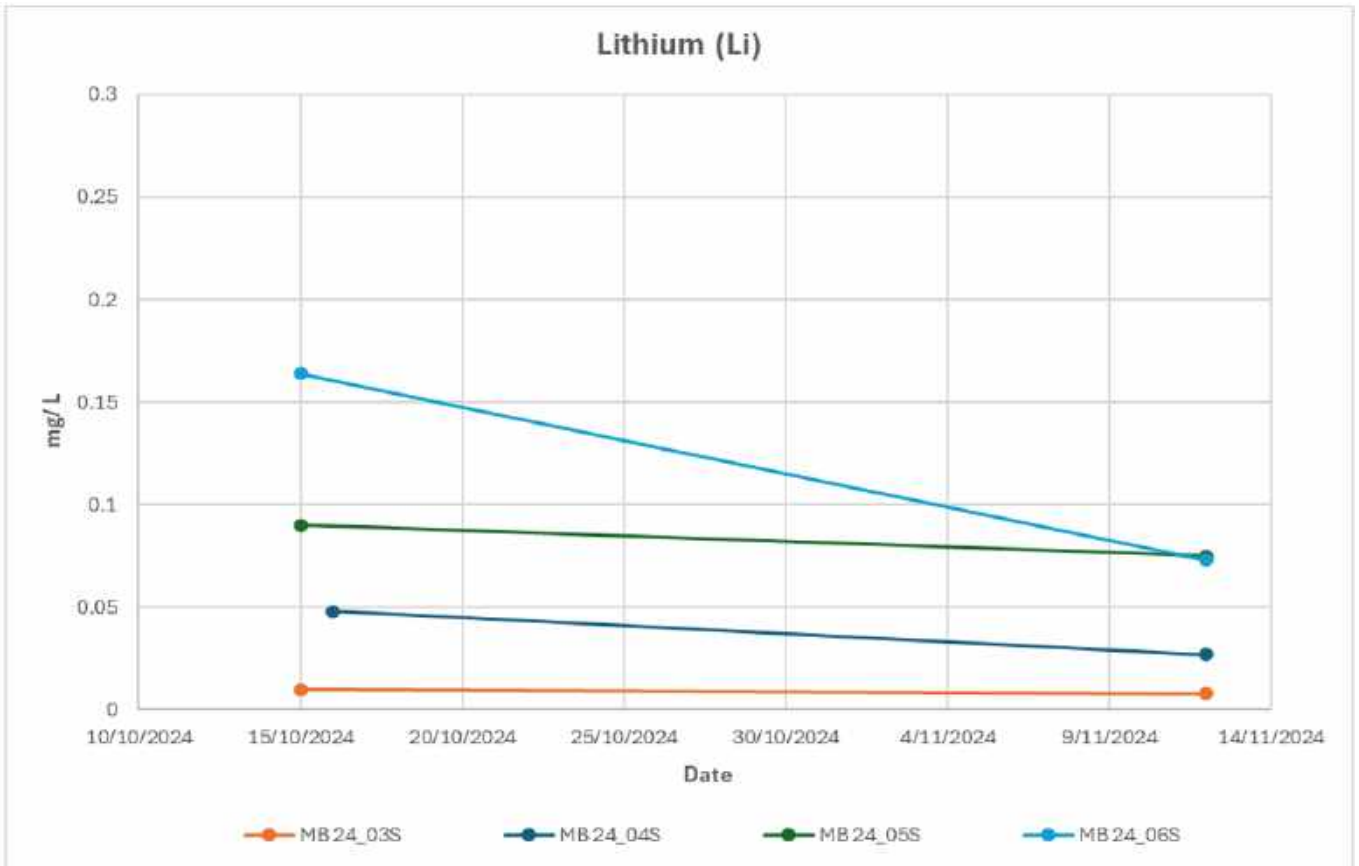


Figure 8.4 Concentration of Lithium in monitoring boreholes

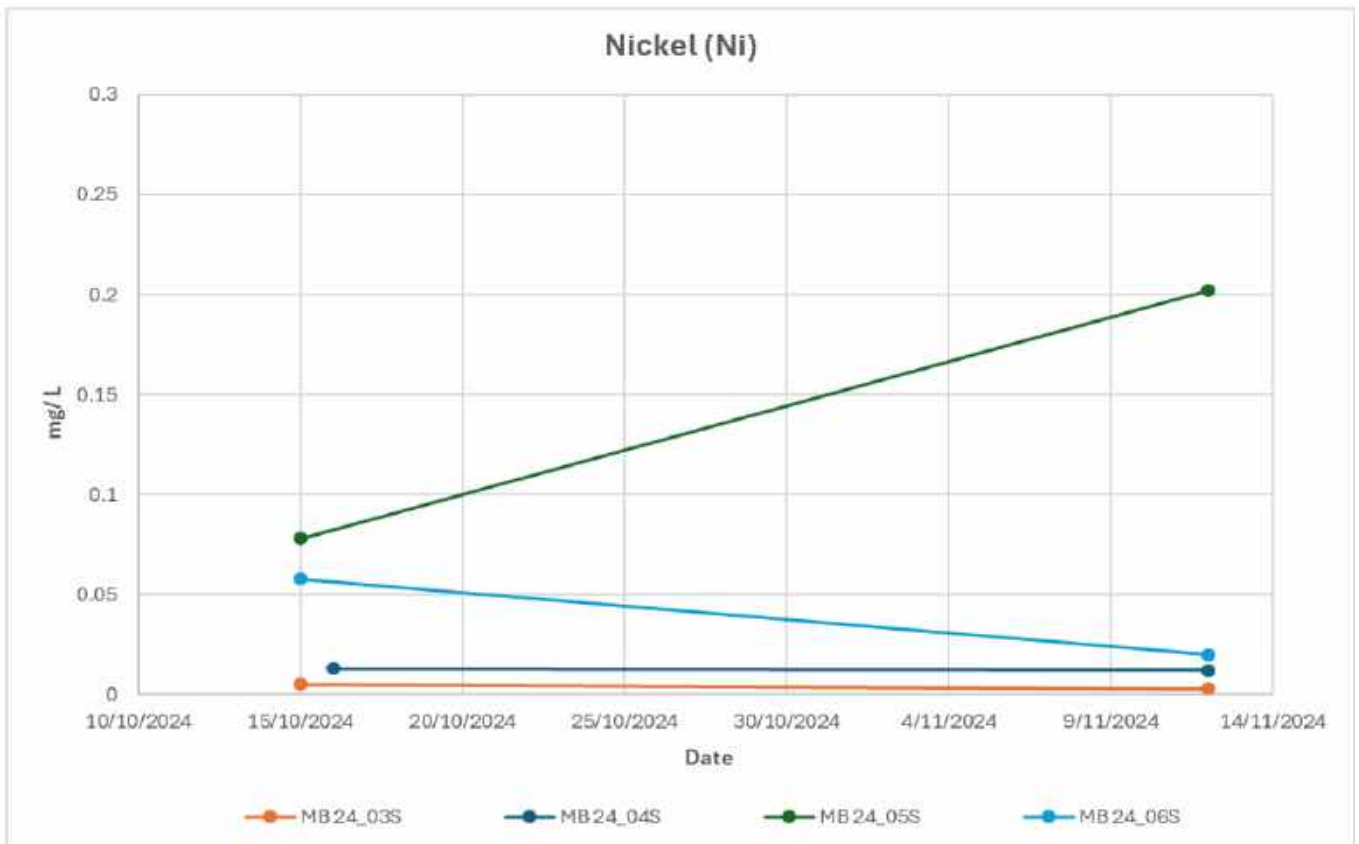


Figure 8.5 Concentration of Nickel in monitoring boreholes

8.3 Groundwater level monitoring

Groundwater levels in the monitoring boreholes were recorded on 17 September 2024 and 17 October 2024. The normalised groundwater levels are summarised in Table 8.1 and plotted on Figure 8.6, Figure 8.7 and Figure 8.8 for the shallow, intermediate and deep boreholes respectively.

No new data has been received since December 2024.

Table 8.1 Normalised groundwater levels

Monitoring Borehole	SWL (m AHD)	
	17-Sep-24	17-Oct-24
MB 24_01S	Dry	Dry
MB 24_01I	Dry	Dry
MB 24_01D	241.01	240.95
MB 24_02S	256.21	253.89
MB 24_02I	Dry	Dry
MB 24_02D	243.10	243.21
MB 24_03S	255.23	254.96
MB 24_03I	252.06	251.90
MB 24_03D	253.66	253.37
MB 24_04S	246.54	246.42
MB 24_04I	247.09	247.01
MB 24_04D	247.01	246.90
MB 24_05S	244.10	243.85
MB 24_05I	243.86	243.68
MB 24_05D	244.40	244.24
MB 24_06S	240.55	240.42
MB 24_06I	241.13	240.99
MB 24_06D	241.14	240.96
MB 24_07S	Dry	Dry
MB 24_07I	238.68	238.65
MB 24_07D	238.07	238.26
MB 24_08S	Dry	Dry
MB 24_08I	255.79	255.52
MB 24_08D	250.43	250.46

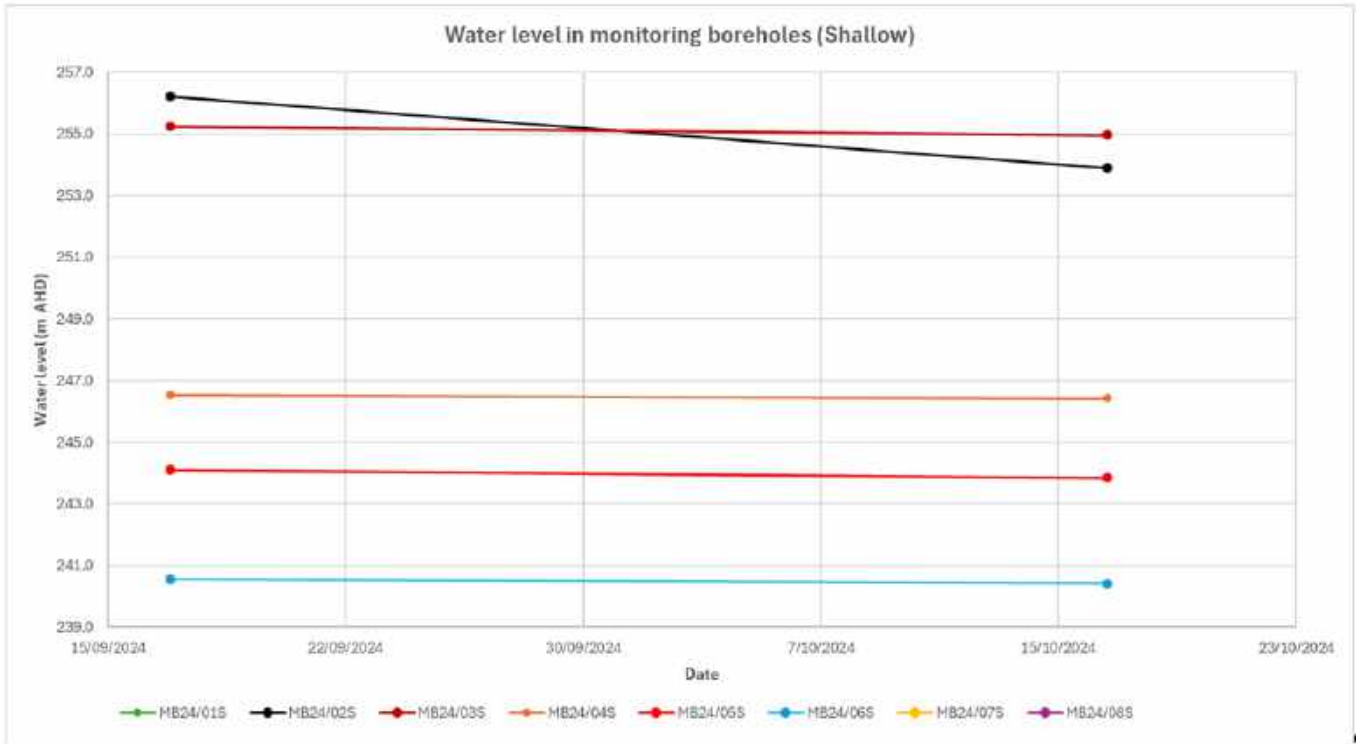


Figure 8.6 Water level in monitoring boreholes (Shallow)

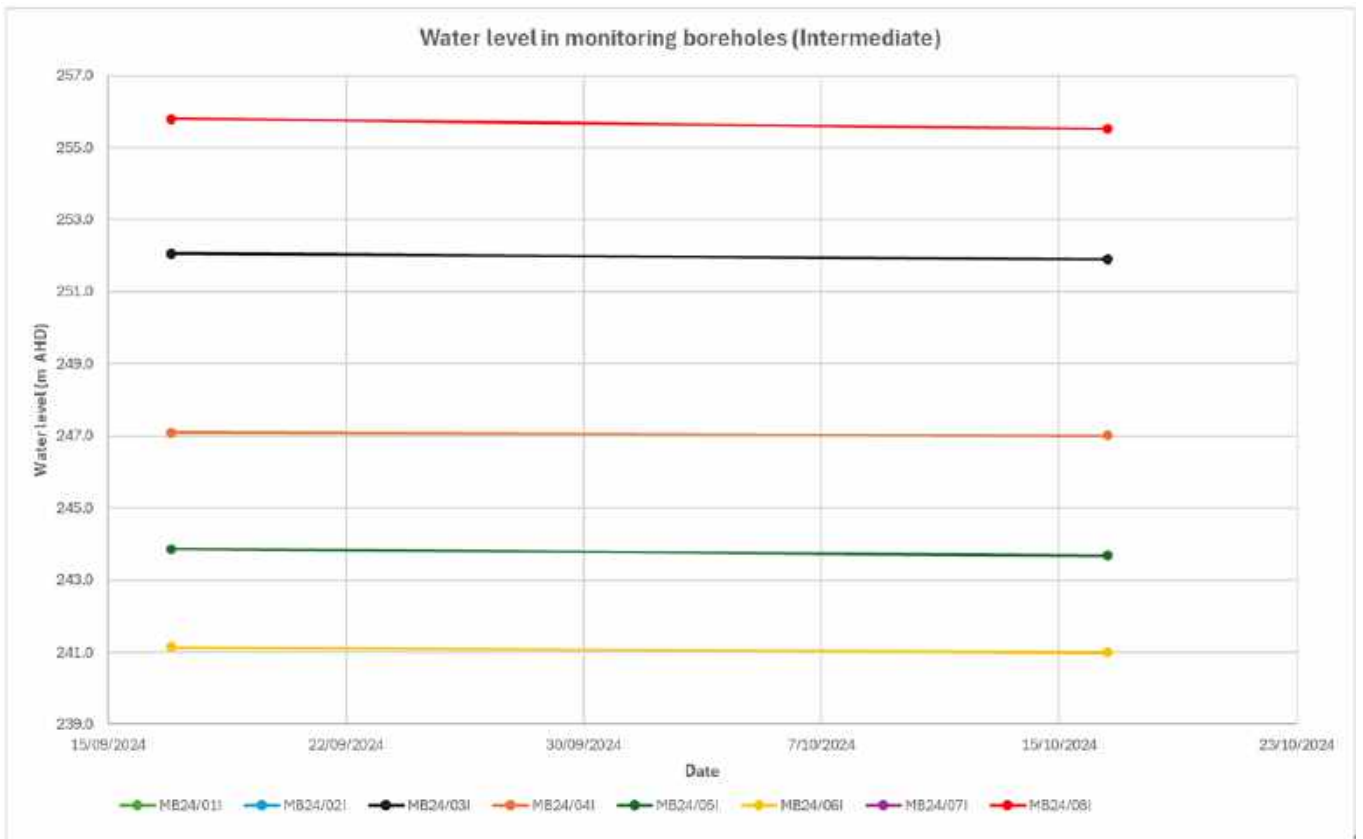


Figure 8.7 Water level in monitoring boreholes (Intermediate)

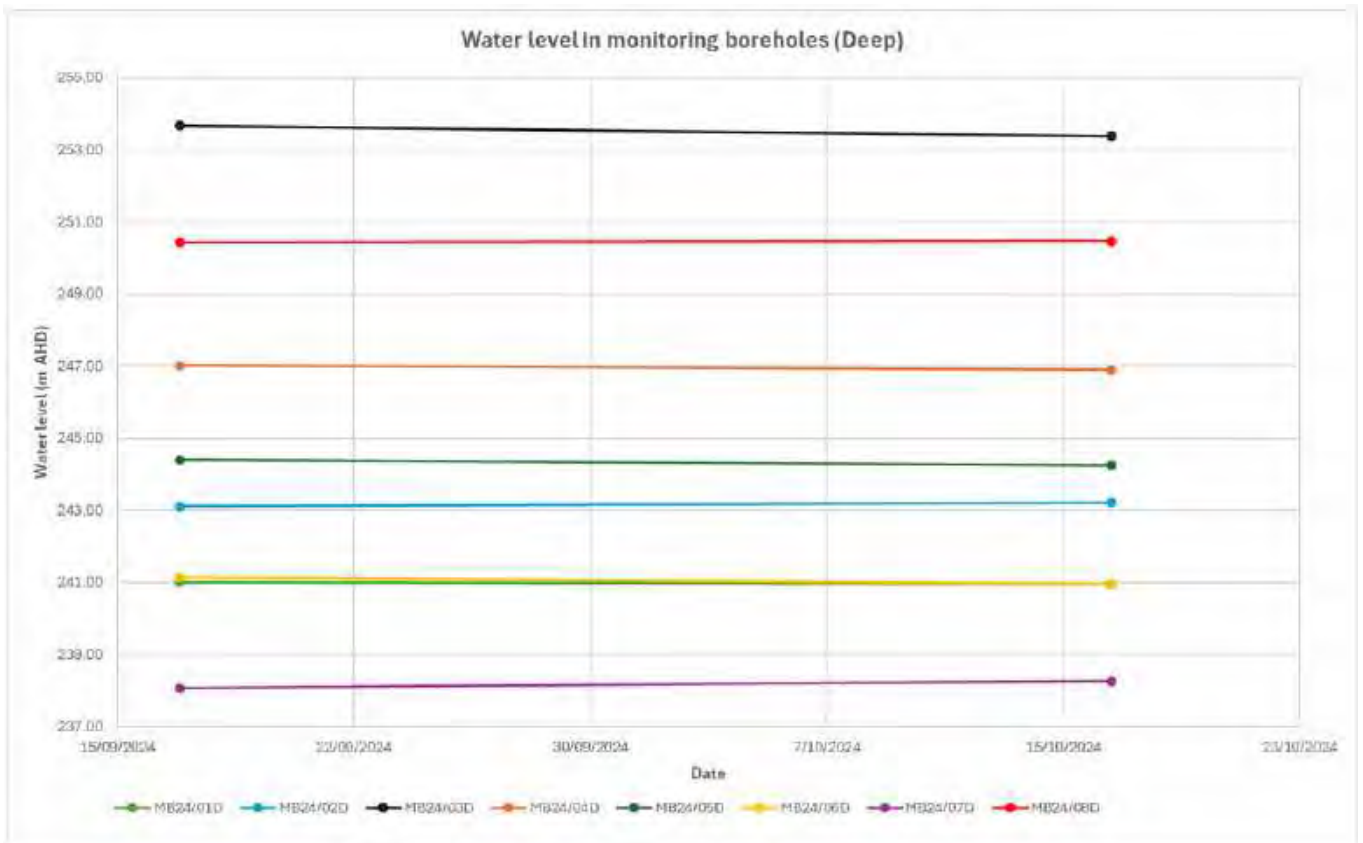


Figure 8.8 Water level in monitoring boreholes (Deep)

9. Recommendations

A summary of the recommendations which have been made for the quarter is presented in Table 9.1.

The complete list of action items is included in Appendix A.

Table 9.1 2025 January to March Recommendations

Recommendation Number	Report Section	Recommendation
TSF1		
2025-Q1-1	4.1	VWP TSF1 CPT08. The VWP should be investigated and repaired.
2025-Q1-2	4.1	VWP TSF1 CPT20-02. Talison to confirm when this piezometer was repaired and if it has been connected to another readout box and channel no.
TSF2		
2025-Q1-3	5.1.1	Tailings above the permissible maximum tailings level should be removed.
2025-Q1-4	5.3.1	In order to assess longer term trends the piezometer reports should include data from the preceding twelve months.
2025-Q1-5	5.3.3	VWP CPT2023 -02B Intermediate. The piezometer calibration data used for the previous GHD interpretation and the Talison reporting should be reviewed and compared to determine the cause of this discrepancy.

Recommendation Number	Report Section	Recommendation
2025-Q1-6	5.3.4	VWP CPT2023 – 03B. The VWP data should be included in future piezometer reports.
2025-Q1-7	5.3.5	VWP CPT2019 - 04C deep. The VWP should be repaired.
2025-Q1-8	5.3.5	VWPs CPT2023 04A deep and shallow. The cause of the high pore pressure readings is being reviewed.
2025-Q1-9	5.3.5	VWP CPT2023 04B. A trigger level should be developed for this VWP.
2025-Q1-10	5.3.6	VWPs CPT2019-05A Shallow and Deep. These VWPs should be repaired.
2025-Q1-11	5.3.7	The 2020 piezometers should be repaired or replaced.
2025-Q1-12	5.4.1	Historical survey readings from June to October 2024 should be transformed to MGA 2020 so trends can be identified and assessed
2025-Q1-13	5.4.2	The GNSS graphs Y axis scale is recommended to be changed to improve readability. The extents should be +/- 0.5 m.
TSF4		
2025-Q1-14	7.3.1	Piezometers installed to monitor pressure during construction should be included in the General Piezometer Reports.
2025-Q1-15	7.3.2.1	PZ01A appeared to be recorded as PZ 01B in the provided General Piezometer Reports. This should be reviewed and corrected to PZ01A in the monitoring database.
2025-Q1-16	7.3.2.1	PZ03A and B. The impact of the simultaneously increasing readings should be investigated.
2025-Q1-17	7.4.2	The inclinometers have been raised recently as part of RL 1270 m embankment construction works. The new details, if any, are requested for record and update in the quarterly report.

10. References

GHD, 2025. TSF4 RL 1275 Raise Detailed Engineering Design Report, 12635322-GHD-00-00-RPT-CI-00001, Revision 0, 12 March 2025.

Hunter and Fell, 2003. The Deformation Behaviour of Embankment Dams, University of New South Wales, February 2003.

Appendices

Appendix A

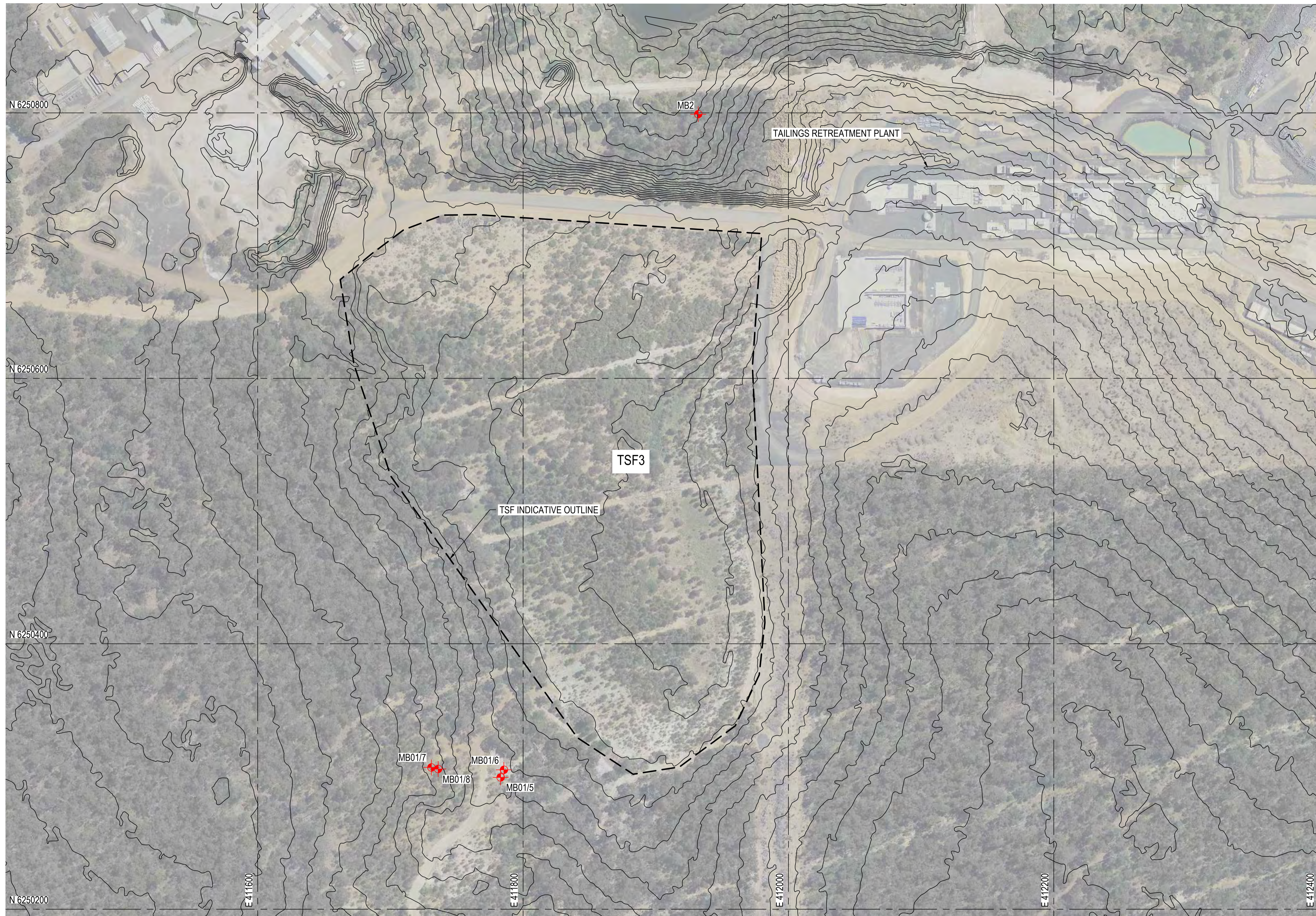
Action Items Schedule

Action Items

No.	Action	Month identified
Tailings Storage Facility 1		
2025-Q1-1	VWP TSF1 CPT08. The VWP should be investigated and repaired.	March, 2025
2025-Q1-2	VWP TSF1 CPT20-02. Talison to confirm when this piezometer was repaired and if it has been connected to another readout box and channel no.	March, 2025
Tailings Storage Facility 2		
2025-Q1-3	Tailings above the permissible maximum tailings level should be removed.	August 2024
2025-Q1-4	In order to assess longer term trends the piezometer reports should include data from the preceding twelve months.	March, 2025
2025-Q1-5	VWP CPT2023 -02B Intermediate. The piezometer calibration data used for the previous GHD interpretation and the Talison reporting should be reviewed and compared to determine the cause of this discrepancy.	March, 2025
2025-Q1-6	VWP CPT2023 – 03B. The VWP data should be included in future piezometer reports.	March, 2025
2025-Q1-7	VWP CPT2019 - 04C deep. The VWP should be repaired.	March, 2025
2025-Q1-8	VWPs CPT2023 04A deep and shallow. The cause of the high pore pressure readings is being reviewed.	March, 2025
2025-Q1-9	VWP CPT2023 04B. A trigger level should be developed for this VWP.	March, 2025
2025-Q1-10	VWPs CPT2019-05A Shallow and Deep. These VWPs should be repaired	March, 2025
2025-Q1-11	The 2020 piezometers should be repaired or replaced.	2024
2025-Q1-12	Historical survey readings from June to October 2024 should be transformed to MGA 2020 so trends can be identified and assessed	November 2024
2025-Q1-13	The GNSS graphs Y axis scale is recommended to be changed to improve readability. The extents should be +/- 0.5 m.	March, 2025
Tailings Storage Facility 4		
2025-Q1-14	Piezometers installed to monitor pressure during construction should be included in the General Piezometer Reports.	March, 2025
2025-Q1-15	PZ01A appeared to be recorded as PZ 01B in the provided General Piezometer Reports. This should be reviewed and corrected to PZ01A in the monitoring database.	March, 2025
2025-Q1-16	PZ03A and B. The impact of the simultaneously increasing readings should be investigated.	March, 2025
2025-Q1-17	The inclinometers have been raised recently as part of RL 1270 m embankment construction works. The new details, if any, are requested for record and update in the quarterly report.	March, 2025

Appendix B

Instrumentation locations



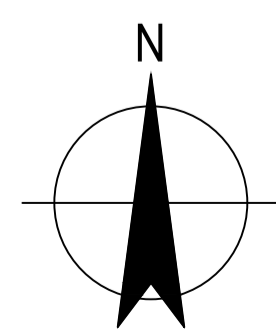
LEGEND:

MB MONITORING BORE LOCATION

MONITORING BORE LOCATIONS		
ID	EASTING	NORTHING
MB01/5	411783.0926	6250299.321
MB01/6	411785.5601	6250305.05
MB01/7	411730.8794	6250306.819
MB01/8	411735.9966	6250305.669
MB2	411932	6250799

THIS DRAWING INCLUDES COLOURED INFORMATION COPIES OF THIS DRAWING MUST BE PRODUCED IN COLOUR

BASE SURVEY SUPPLIED BY:
TALISON LITHIUM PTY LTD
RECEIVED ON: JULY 2021
CO-ORDINATE GRID: MGA94-50
LEVEL DATUM: MINE DATUM



Talison Lithium Pty Ltd
Talison Monthly Monitoring

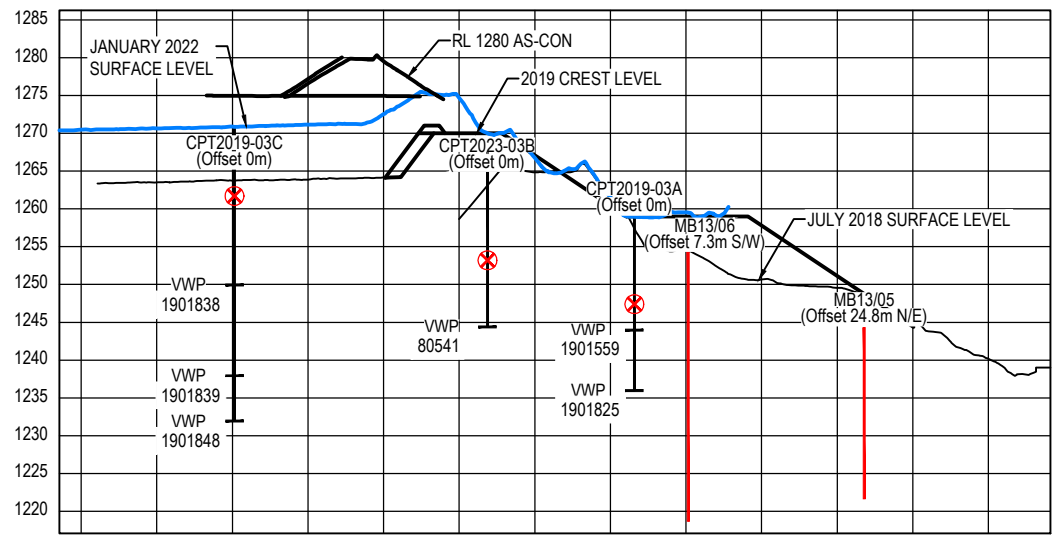
Instrumentation Plan
TSF3

Job Number | 12546961

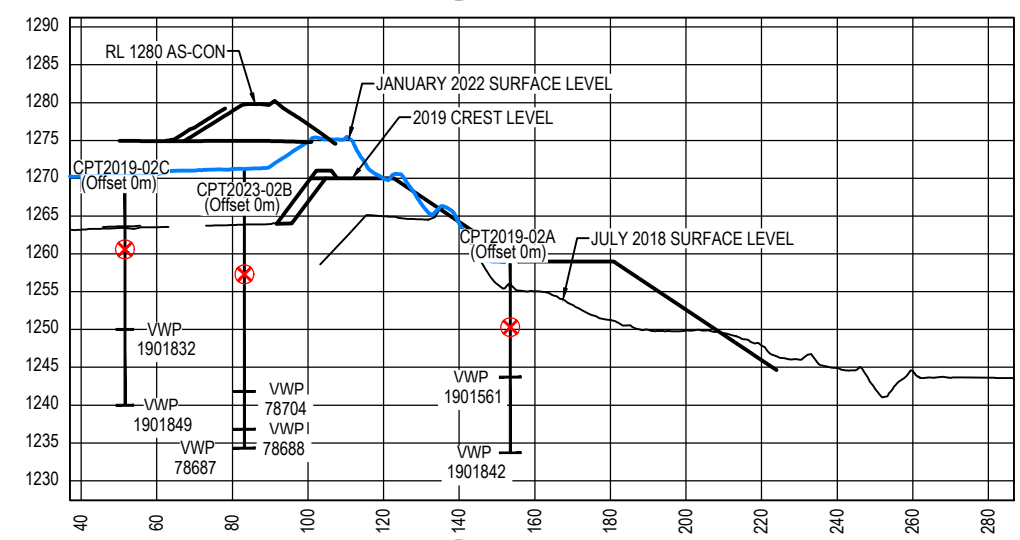
Revision | A

Date | Apr 2022

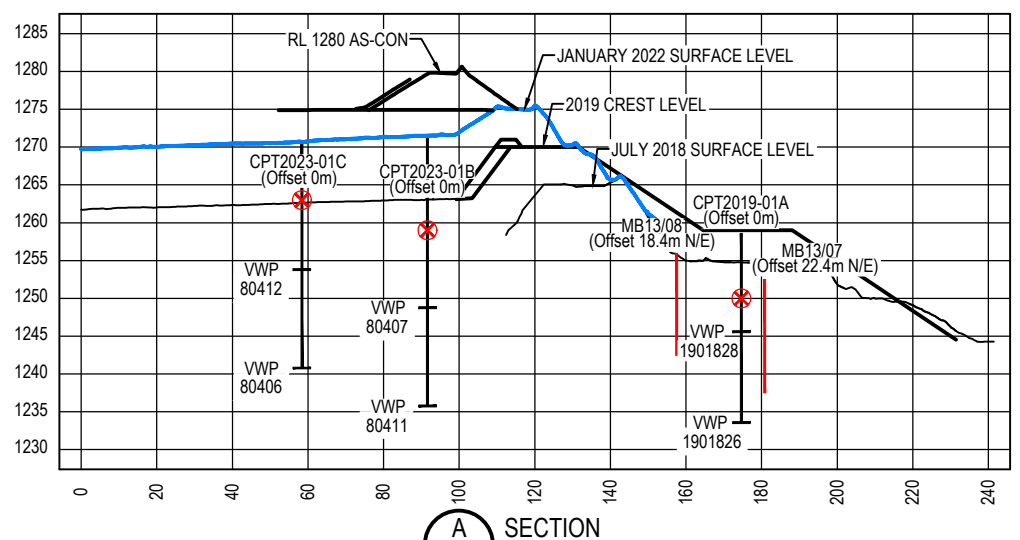
Figure 03



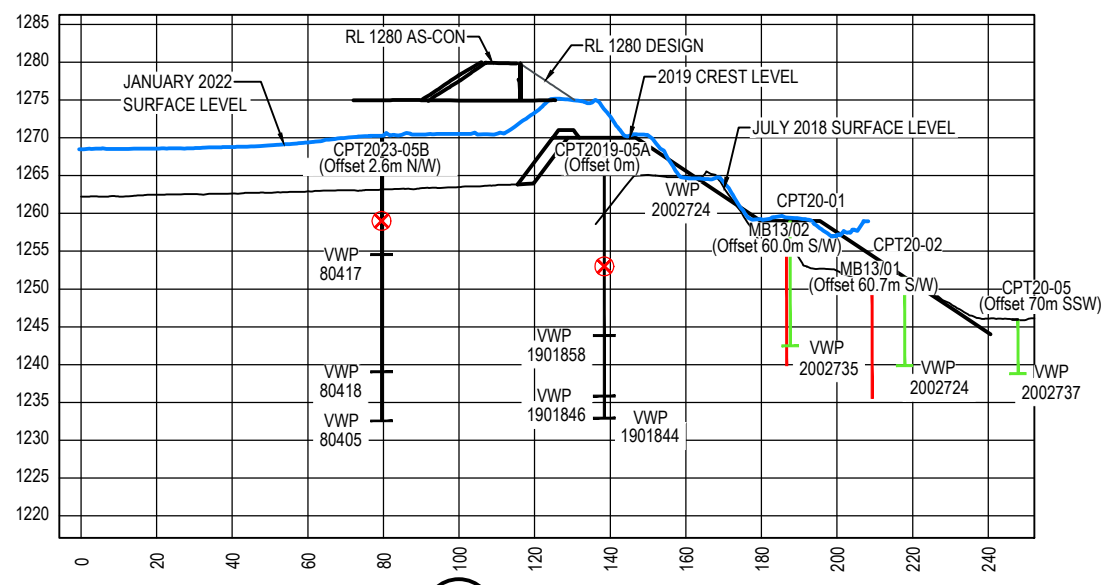
C SECTION
Fig 02 SCALE H 1:1000 V 1:500



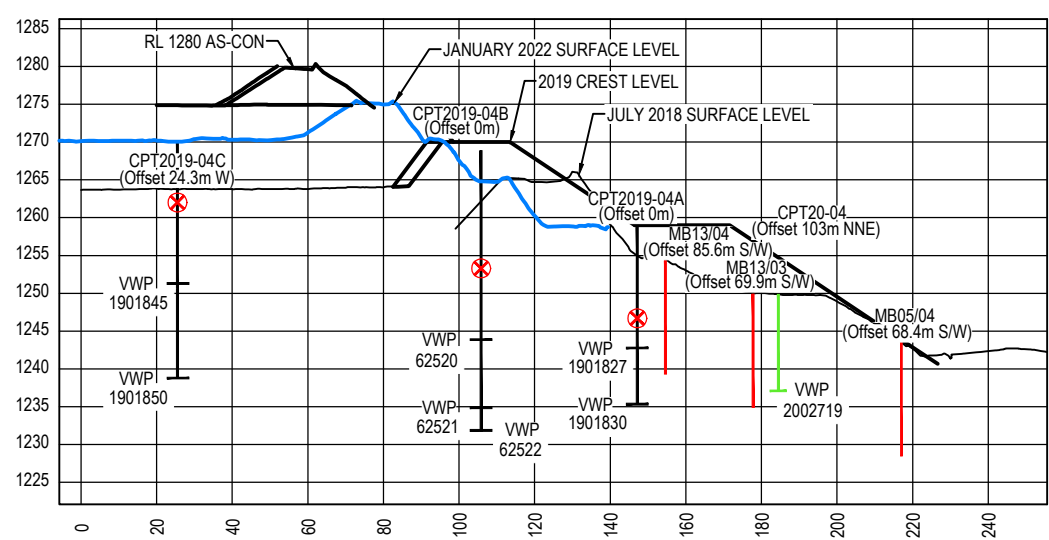
B SECTION
Fig 02 SCALE H 1:1000 V 1:500



A SECTION
Fig 02 SCALE H 1:1000 V 1:500



E SECTION
Fig 02 SCALE H 1:1000 V 1:500

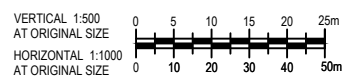


D SECTION
Fig 02 SCALE H 1:1000 V 1:500

LEGEND:

- VWP VIBRATING WIRE PIEZOMETER
- MONITORING BORE
- JANUARY 2022 SURFACE LEVEL
- ⊗ TRIGGER LEVEL

VWP LOCATIONS		
CPT ID	SENSOR ID	MATERIAL AT SENSOR TIP
CPT2019-01A	1901826	Residual soil
CPT2019-01A	1901828	Embankment Fill - Earthfill
CPT2023-01B	80411	Residual soil
CPT2023-01B	80407	Tailings - Granular
CPT2023-01C	80406	Tailings - Granular
CPT2023-01C	80412	Residual soil
CPT2019-02A	1901842	Residual soil
CPT2019-02A	1901561	Tailings - Granular
CPT2023-02B	78687	Residual soil
CPT2023-02B	78688	Residual soil
CPT2023-02B	78704	Tailings - Cohesive
CPT2019-02C	1901849	Residual soil
CPT2019-02C	1901832	Tailings - Cohesive
CPT2019-03A	1901825	Slimes
CPT2019-03A	1901559	Tailings - Granular
CPT2023-03B	80541	Tailings - Granular
CPT2019-03C	1901838	Tailings - Granular
CPT2019-03C	1901839	Slimes
CPT2019-03C	1901848	Residual soil
CPT2019-04A	1901830	Tailings - Granular
CPT2019-04A	1901827	Tailings - Granular
CPT2019-04B	62522	Slimes
CPT2019-04B	62520	Tailings - Granular
CPT2019-04B	62521	Slimes
CPT2019-04C	1901845	Tailings - Granular
CPT2019-04C	1901850	Slimes
CPT2019-05A	1901844	Residual soil
CPT2019-05A	1901846	Tailings - Granular
CPT2019-05A	1901858	Tailings - Cohesive
CPT2023-05B	80418	Tailings - Granular
CPT2023-05B	80417	Tailings - Cohesive
CPT2023-05B	80405	Residual soil



Talison Lithium Pty Ltd
Talison Monthly Monitoring

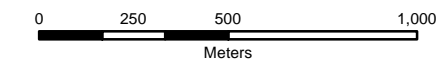
Instrumentation Plan
TSF2 Cross Sections

Job Number | 12546961
Revision | B
Date | Jul 2022
Figure 04

BASE SURVEY SUPPLIED BY:
TALISON LITHIUM PTY LTD
RECEIVED ON: JULY 2021
CO-ORDINATE GRID: MGA94-50
LEVEL DATUM: MINE DATUM



GREENBUSHES OPERATIONS
**LONG TERM MONITORING BENCHMARKS
 AND SETTLEMENT MARKERS**



1:20,000
 Projection: MGA Zone 50 Datum: GDA94

Department: Mining	Date: 4/08/2020
Figure: LTM	Status:
Drawn by BR	Requested by
Internal Reference T:07-03-01	Sheet Size A3

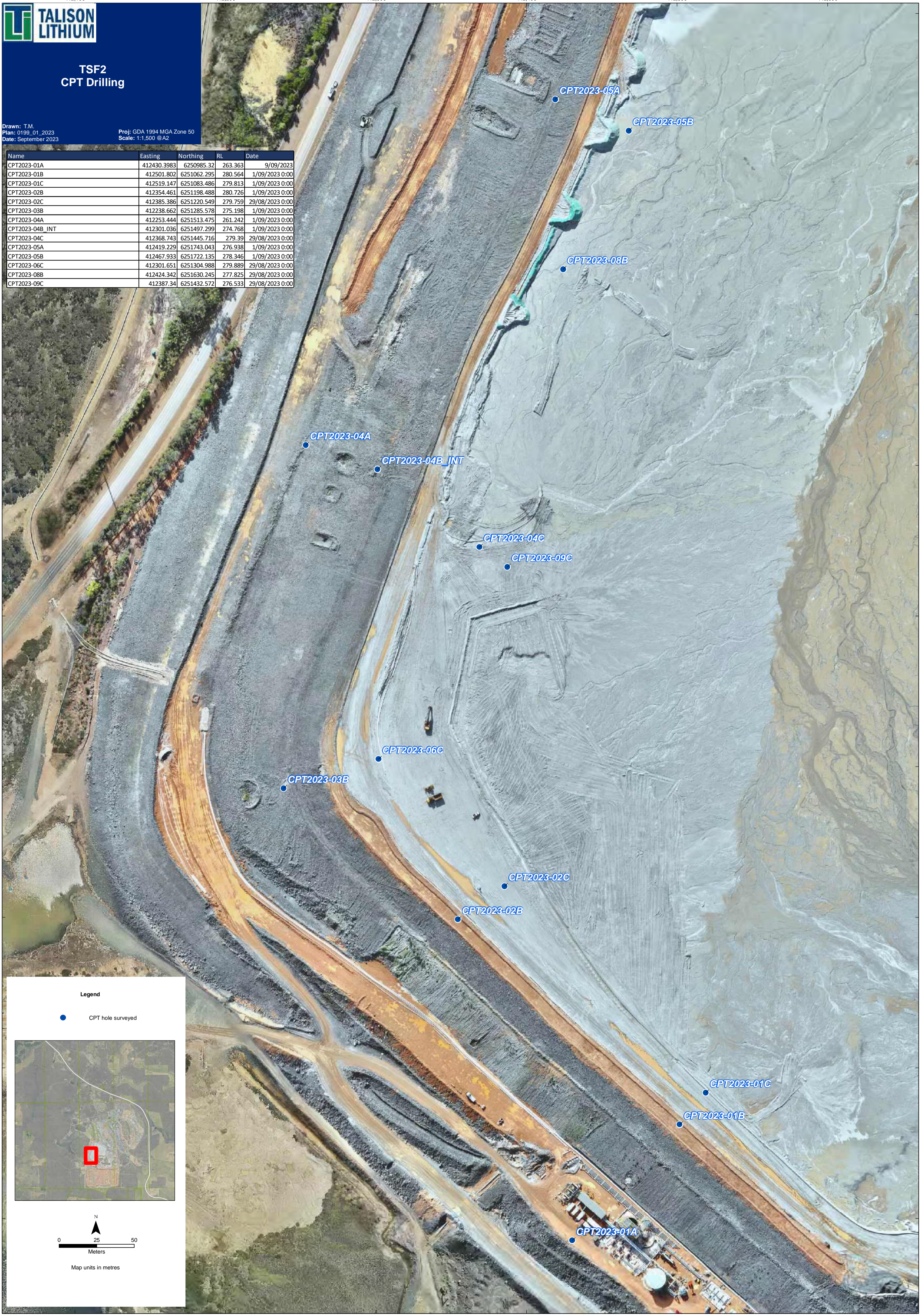
Legend

- Long Term Monitoring Points
- Clearwater Settlement Markers
- TSF2 Settlement Marks

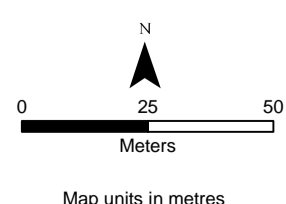
TSF2 CPT Drilling

Drawn: T.M.
 Plan: 0199_01_2023
 Date: September 2023
 Proj: GDA 1994 MGA Zone 50
 Scale: 1:1,500 @A2

Name	Easting	Northing	RL	Date
CPT2023-01A	412430.3983	6250985.32	263.363	9/09/2023
CPT2023-01B	412501.802	6251062.295	280.564	1/09/2023 0:00
CPT2023-01C	412519.147	6251083.486	279.813	1/09/2023 0:00
CPT2023-02B	412354.461	6251198.488	280.726	1/09/2023 0:00
CPT2023-02C	412385.386	6251220.549	279.759	29/08/2023 0:00
CPT2023-03B	412238.662	6251285.578	275.198	1/09/2023 0:00
CPT2023-04A	412253.444	6251513.475	261.242	1/09/2023 0:00
CPT2023-04B_INT	412301.036	6251497.299	274.768	1/09/2023 0:00
CPT2023-04C	412368.743	6251445.716	279.39	29/08/2023 0:00
CPT2023-05A	412419.229	6251743.043	276.938	1/09/2023 0:00
CPT2023-05B	412467.933	6251722.135	278.346	1/09/2023 0:00
CPT2023-06C	412301.651	6251304.988	279.889	29/08/2023 0:00
CPT2023-08B	412424.342	6251630.245	277.825	29/08/2023 0:00
CPT2023-09C	412387.34	6251432.572	276.533	29/08/2023 0:00



Legend
 ● CPT hole surveyed



412,100 412,200 412,300 412,400 412,500 412,600

6,251,800 6,251,700 6,251,600 6,251,500 6,251,400 6,251,300 6,251,200 6,251,100 6,251,000

412500 m

413000 m

6252000 m

6252000 m

6251500 m

6251500 m

6251000 m

6251000 m

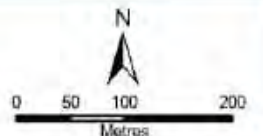


412500 m

413000 m



**GNSS
Locations
at TSF2**



**TSF3 Services Area
Geotech Drilling**

Drawn: T.M.
Plan: 0206_02_2023
Date: September 2023

Proj: GDA 1994 MGA Zone 50
Scale: 1:1,000 @A2

Name	Easting	Northing	RL	Date
TSF3CPT02	411887.2	6250511	256.575	8/09/2023
TSF3CPT01	411898.3	6250383	256.806	8/09/2023

NAME	Easting	Northing	Elevation
TSF3-VWP2023-1A	411836.039	6250736.825	259.42
TSF3-VWP2023-2A	411884.016	6250732.54	259.463
TSF3-VWP2023-3A	411920.217	6250729.342	259.505



Legend

- ◆ VWP hole surveyed
- CPT hole surveyed

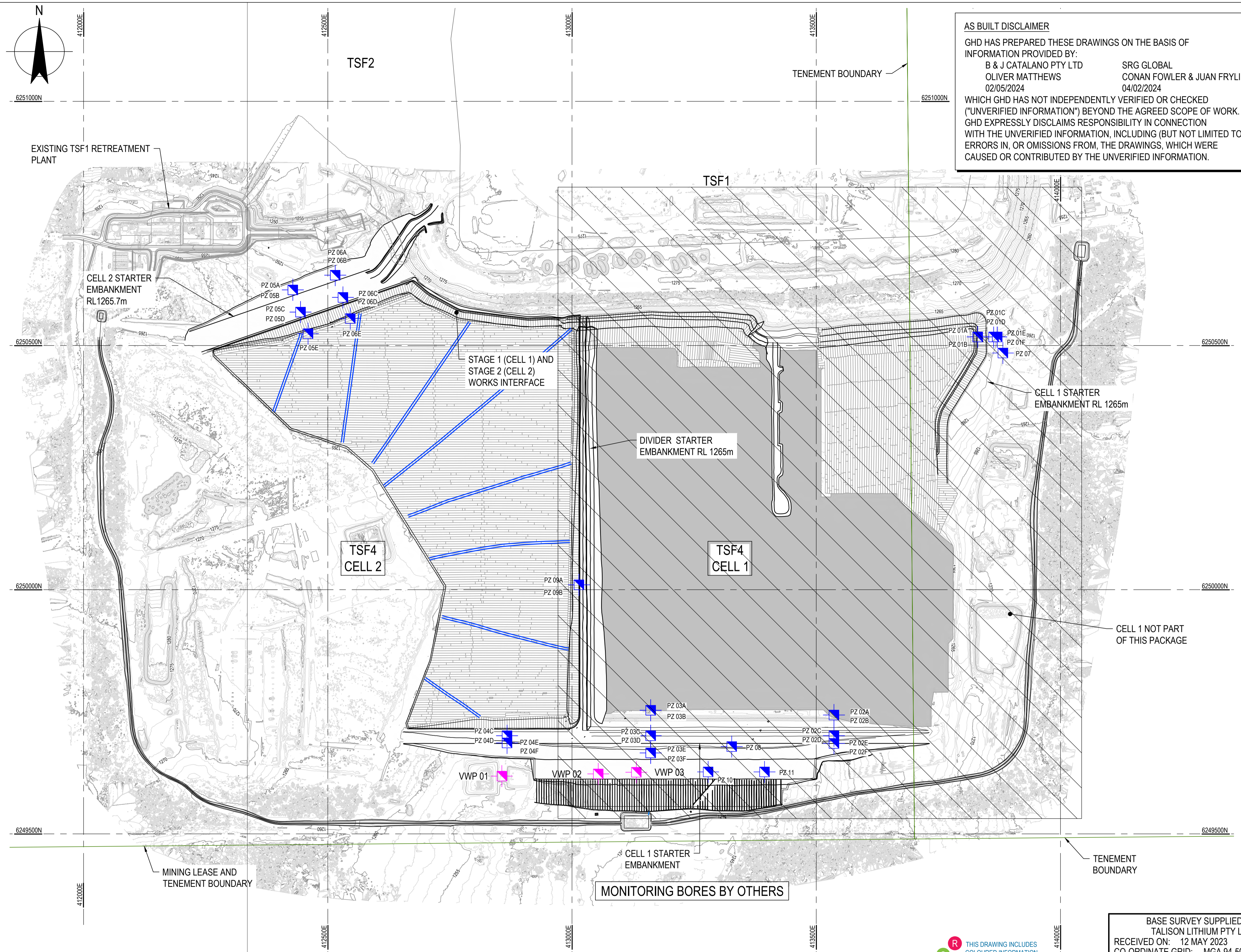
Map units in metres

0 25
N

411,700 411,800 411,900 412,000

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411,700 411,800 411,900 412,000



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 OLIVER MATTHEWS CONAN FOWLER & JUAN FRYLINCK
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- NOTES:**
- ALL DIMENSIONS ARE IN METRES (m) UNLESS OTHERWISE NOTED.
 - ALL RL'S ARE IN METRES TO LOCAL MINE DATUM (M).
 - ALL DRAWING REFERENCES ARE PREFIXED BY "12613531-GHD-00-00-DRG-".
 - FOR PIEZOMETER DETAILS REFER TO DRAWING CI-00016.
 - EXISTING PIEZOMETERS TO BE PROTECTED.
 - CELL 1 WORKS BY OTHERS.

- LEGEND:**
- VWP 01 EXISTING VWP LOCATIONS
 - PZ 01 PROPOSED VWP LOCATIONS

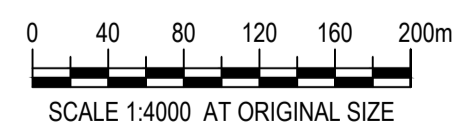
PROPOSED PIEZOMETER SETOUT TABLE

POINT ID	EASTING	NORTHING	TIP RL (m)
PZ 01A	413831	6250518	1258.8
PZ 01C	413863	6250518	1263.2
PZ 01D	413870	6250518	1254.6
PZ 01E	413870	6250518	1263.4
PZ 01F	413870	6250518	1257.7
PZ 02A	413536	6249743	1253.9
PZ 02B	413536.04	6249700.96	1255.9
PZ 02C	413536.04	6249700.96	1260.3
PZ 02D	413536.09	6249685	1250.3
PZ 02E	413536.09	6249685	1260.8
PZ 02F	413536.09	6249685	1253.8
PZ 03A	413161	6249753	1249.4
PZ 03B	413161	6249753	1251.4
PZ 03C	413160.85	6249701	1251.0
PZ 03D	413160.85	6249701	1241.0
PZ 03E	413161.15	6249666	1250.7
PZ 03F	413161.15	6249666	1243.7
PZ 04C	412867	6249701	1261.2
PZ 04D	412867	6249701	1251.2
PZ 04E	412867	6249686	1261.1
PZ 04F	412867	6249686	1254.1
PZ 05A	412428.48	6250614.03	1256.7
PZ 05B	412428.48	6250614.03	1246.7
PZ 05C	412444.22	6250568.57	1257.6
PZ 05D	412444.22	6250568.57	1247.6
PZ 05E	412459.52	6250524.28	1257.1
PZ 06A	412515.28	6250644.06	1255.7
PZ 06B	412515.28	6250644.06	1245.7
PZ 06C	412531.06	6250598.50	1258.5
PZ 06D	412531.06	6250598.50	1248.5
PZ 06E	412544.78	6250558.8	1254.1
PZ 07	413882	6250485	1250.0
PZ 08	413327.07	6249679.04	1234.0
PZ 09A	413018.42	6250009.81	1249.5
PZ 09B	413018.42	6250009.81	1259.5
PZ 10	413278.75	6249626.82	1248.4
PZ 11	413394.2	6249626.86	1248.4

EXISTING PIEZOMETER COORDINATES

POINT ID	EASTING	NORTHING	RL (m)
VWP 01	412856	6249618	1255.8
VWP 02	413054	6249623	1247.7
VWP 03	413132	6249626	1246.4

BASE SURVEY SUPPLIED BY:
 TALISON LITHIUM PTY LTD
 RECEIVED ON: 12 MAY 2023
 CO-ORDINATE GRID: MGA 94-50
 LEVEL DATUM: MINE DATUM



PLAN
 SCALE 1:4000

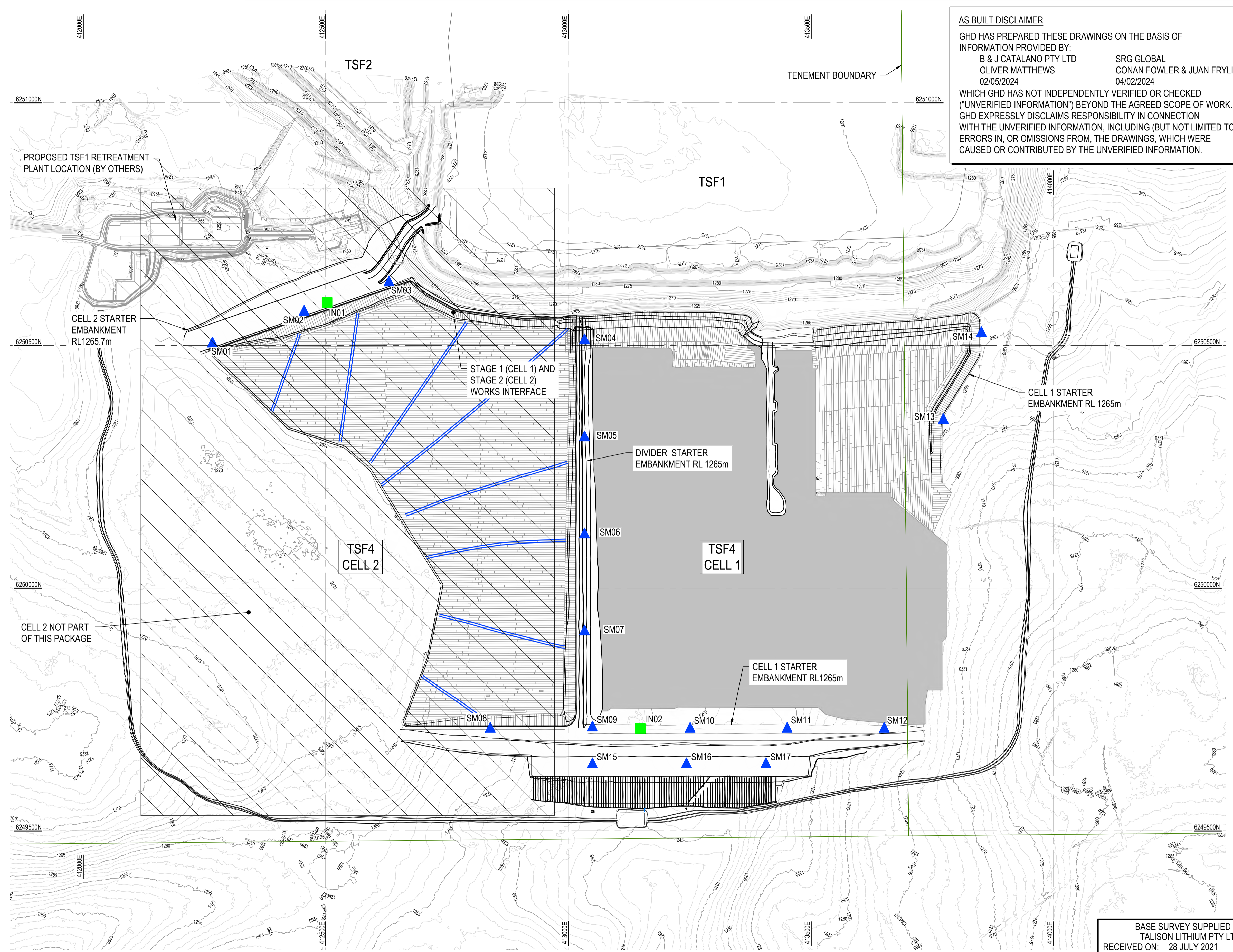


Client TALISON LITHIUM PTY LTD
 Project TSF4 CELL 2
 Status AS CONSTRUCTED

Drawing Title INSTRUMENTATION PLAN
 PIEZOMETERS

Size A1

12613531-GHD-00-00-DRG-CI-00014
 Drawing No. 12613531-GHD-00-00-DRG-CI-00014
 Rev C02



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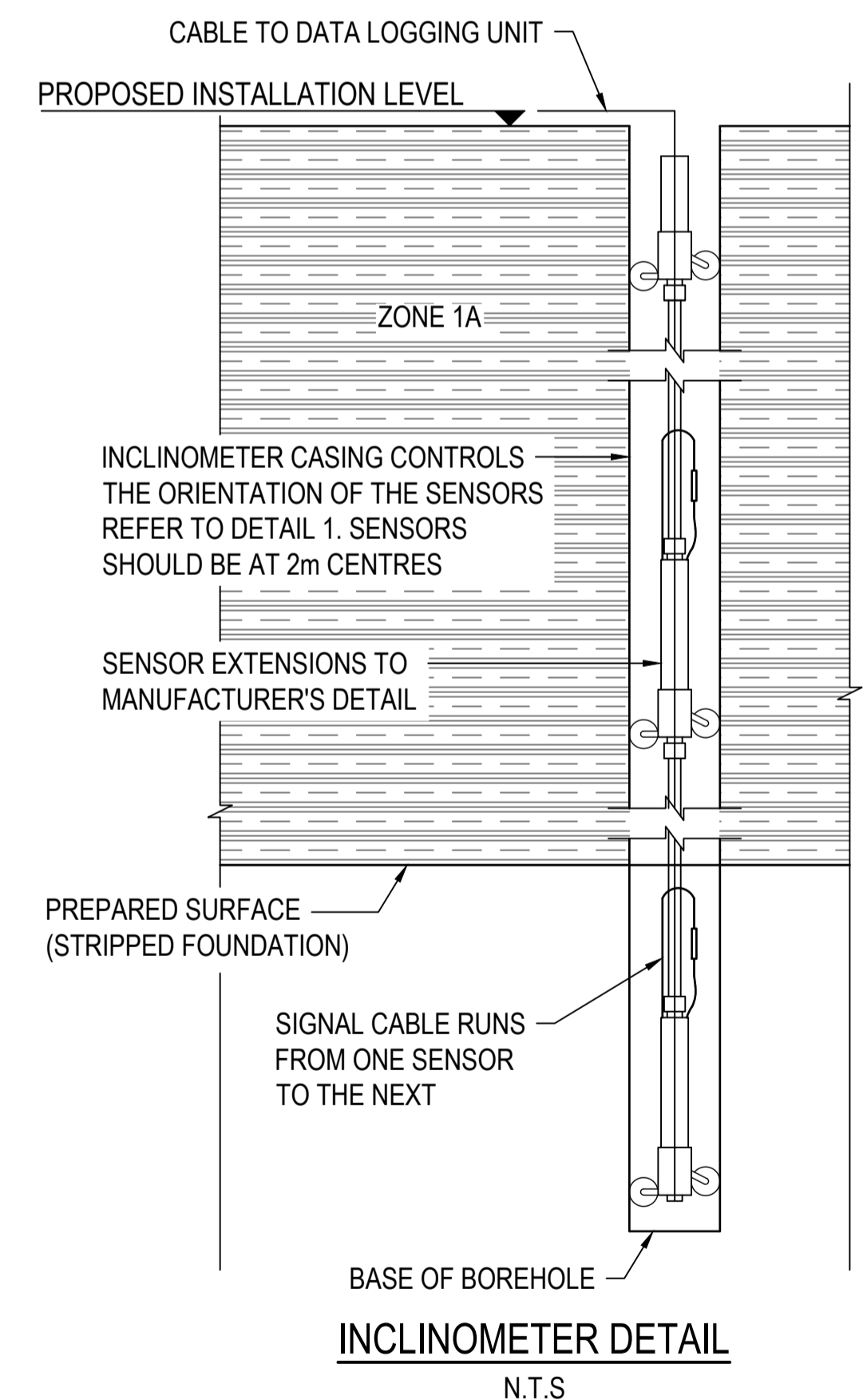
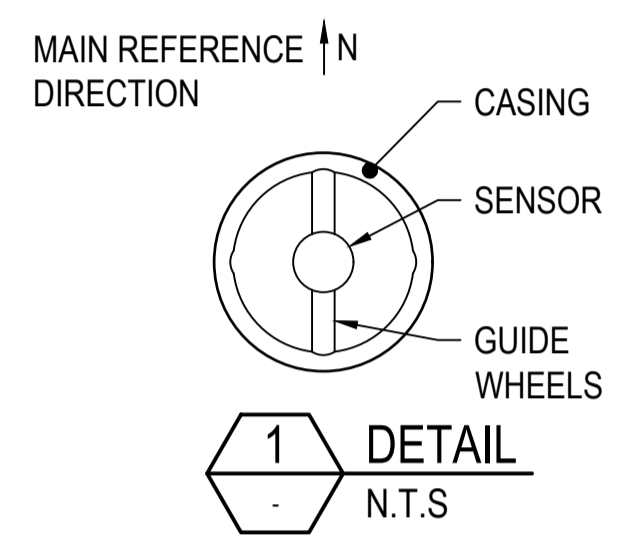
- LEGEND:**
- SURVEY MARKERS
 - INCLINOMETER / SETTLEMENT GAUGE

INCLINOMETER SETOUT TABLE

POINT	EASTING	NORTHING
IN01	412503	6250589
IN02	413148	6249711

SURVEY MARKER SETOUT TABLE

POINT	EASTING	NORTHING
SM01	412267	6250507
SM02	412456	6250572
SM03	412630	6250633
SM04	413033	6250514
SM05	413033	6250314
SM06	413033	6250114
SM07	413033	6249914
SM08	412839	6249713
SM09	413050	6249716
SM10	413251	6249713
SM11	413451	6249713
SM12	413651	6249713
SM13	413773	6250350
SM14	413851	6250529
SM15	413050	6249640
SM16	413243	6249640
SM17	413407	6249640

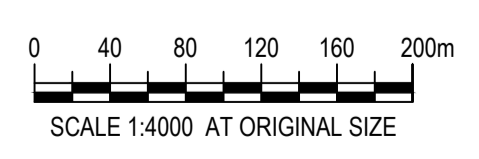


BASE SURVEY SUPPLIED BY:
 TALISON LITHIUM PTY LTD
 RECEIVED ON: 28 JULY 2021
 CO-ORDINATE GRID: MGA 94-50
 LEVEL DATUM: MINE DATUM

PLAN
SCALE 1:4000

AS CONSTRUCTED

BG	JF	CH	25/06/24
BG	ppCH	CH	20/12/22
BG	GB	ppGB	18/03/22
BG	GB	CH	19/01/22
Drawn	Job Manager	Project Director	Date



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Client **TALISON LITHIUM PTY LTD**
 Project **TSF4 CELL 1**
 Title **INSTRUMENTATION PLAN SURVEY MARKERS AND INCLINOMETERS**
 Drawing No: **61-37226-C029**
 Rev: **3**

Appendix C

Instrumentation details

Instrumentation Details for TSF1, TSF2, TSF3 and TSF4

TSF1	CPT ID	Easting (m)	Northing (m)	CPT RL (m)	Date Installed	Installer	VWP Manufacturer	VWP Serial #	Readout box ID Node	Channel No	Depth (m)	VWP Sensor RL (m)	Target Strata
	TSF1-CPT20-01	413,820.67	6,251,478.28	279.770	9/09/2020	Probedrill	TBC	2002732	16343	1	15.50	264.27	TBC
	TSF1-CPT20-02	413,911.29	6,251,484.20	272.700	12/10/2020	Hagstrom	TBC	2002725	16452	1	16.50	256.20	TBC
	TSF1-CPT20-03	413,843.87	6,251,004.37	281.860	16/09/2020	Probedrill	TBC	2002733	16698	1	16.50	265.36	TBC
	TSF1-CPT20-04	413,946.05	6,251,019.84	268.370	18/10/2020	Hagstrom	TBC	2002740	16709	1	20.00	248.37	TBC
	TSF1-CPT20-05	413,543.26	6,250,704.79	275.040	9/09/2020	Probedrill	TBC	2002731	16612	1	11.90	263.14	TBC
	TSF1-CPT20-06	413,554.33	6,250,567.77	267.850	13/10/2020	Hagstrom	TBC	2002739	16711	1	14.00	253.85	TBC
	TSF1-CPT20-07	413,060.39	6,250,701.19	275.010	9/09/2020	Probedrill	TBC	2002728	16756	1	16.60	258.41	TBC
	TSF1-CPT20-08	413,064.56	6,250,582.07	268.580	16/10/2020	Hagstrom	TBC	2002738	16368	1	25.00	243.58	TBC
	TSF1-CPT20-09	412,775.18	6,250,896.55	275.580	8/09/2020	Probedrill	TBC	2002730	16705	1	19.00	256.58	TBC
	TSF1-CPT20-10	412,781.50	6,251,174.76	275.820	9/09/2020	Probedrill	TBC	2002726	16432	1	21.00	254.82	TBC
	TSF1-CPT20-11	413,033.35	6,251,340.22	276.220	9/09/2020	Probedrill	TBC	2002727	16303	1	17.90	258.32	TBC
	TSF1-CPT20-12	413,292.92	6,251,620.49	277.890	14/09/2020	Probedrill	TBC	2002729	16315	1	16.00	261.89	TBC
	TSF1-CPT20-13	414,003.69	6,251,032.90	256.020	10/10/2020	Hagstrom	TBC	2002734	16704	1	11.50	244.52	TBC
	TSF1-CPT20-14	412,706.86	6,250,903.79	276.670	4/10/2020	Hagstrom	TBC	2002720	16652	1	18.00	258.67	TBC
	TSF1-CPT20-15	412,704.98	6,251,176.66	276.700	8/10/2020	Hagstrom	TBC	2002718	16675	1	18.00	258.70	TBC
	TSF1-CPT20-16	413,037.08	6,251,412.58	276.370	6/10/2020	Hagstrom	TBC	2002723	16412	1	16.50	259.87	TBC
TSF1-CPT20-17	413,188.84	6,251,638.07	274.990	2/10/2020	Hagstrom	TBC	2002736	16657	1	14.50	260.49	TBC	

TSF2	CPT ID	Easting (m)	Northing (m)	CPT RL (m)	Date Installed	Installer	VWP Manufacturer	VWP Serial #	Readout box ID Node	Channel No	Depth (m)	VWP Sensor RL (m)	Target Strata
	CPT2019-01A	412,445.00	6,251,001.00	258.580	21/06/2019	Groundwave	Slope Indicator	1901826	14440	1	25.00	233.58	Residual Soil
	CPT2019-01A			258.580	21/06/2019	Groundwave	Slope Indicator	1901828	14440	2	13.00	245.58	Embankment Fill - Earthfill
	CPT2019-01B	412,502.00	6,251,063.00	263.760	2/07/2019	Probedrill	Slope Indicator	1901851	15114	1	28.00	235.76	Residual Soil
	CPT2019-01B			263.760	2/07/2019	Probedrill	Slope Indicator	1901856	15114	3	15.00	248.76	Tailings - Granular
	CPT2019-01C	412,524.00	6,251,088.00	263.790	2/07/2019	Probedrill	Slope Indicator	1901823	15114	2	10.00	253.79	Tailings - Granular
	CPT2019-01C			263.790	2/07/2019	Probedrill	Slope Indicator	1901837	15114	4	23.00	240.79	Residual Soil
	CPT2019-02A	412,307.00	6,251,147.00	258.690	21/06/2019	Groundwave	Slope Indicator	1901842	14520	1	25.00	233.69	Residual Soil
	CPT2019-02A			258.690	21/06/2019	Groundwave	Slope Indicator	1901561	14520	2	15.00	243.69	Tailings - Cohesive
	CPT2019-02B	412,354.00	6,251,199.00	264.810	2/07/2019	Probedrill	Slope Indicator	1901852	15254	2	30.50	234.31	Residual Soil
	CPT2019-02B			264.810	2/07/2019	Probedrill	Slope Indicator	1901853	15254	3	28.00	236.81	Residual Soil
	CPT2019-02B			264.810	2/07/2019	Probedrill	Slope Indicator	1901854	15254	4	23.00	241.81	Tailings - Cohesive
	CPT2019-02C	412,377.00	6,251,220.00	264.990	5/07/2019	Probedrill	Slope Indicator	1901849	15254	1	25.00	239.99	Residual Soil
	CPT2019-02C			264.990	5/07/2019	Probedrill	Slope Indicator	1901832	15254	5	15.00	249.99	Tailings - Cohesive
	CPT2019-03A	412,199.00	6,251,277.00	258.970	20/06/2019	Groundwave	Slope Indicator	1901825	15212	1	23.00	235.97	Slimes
	CPT2019-03A			258.970	20/06/2019	Groundwave	Slope Indicator	1901559	15212	2	15.00	243.97	Tailings - Granular
	CPT2019-03B	412,237.00	6,251,285.00	268.390	27/06/2019	Probedrill	Soil Instruments	62511	15315	1	24.00	244.39	Tailings - Granular
	CPT2019-03C	412,302.00	6,251,302.00	264.940	4/07/2019	Probedrill	Slope Indicator	1901838	15315	2	15.00	249.94	Tailings - Granular
	CPT2019-03C			264.940	4/07/2019	Probedrill	Slope Indicator	1901839	15315	3	27.00	237.94	Slimes
	CPT2019-03C			264.940	4/07/2019	Probedrill	Slope Indicator	1901848	15315	4	33.00	231.94	Residual Soil
	CPT2019-04A	412,264.00	6,251,510.00	258.770	20/06/2019	Groundwave	Slope Indicator	1901830	15082	1	23.50	235.27	Tailings - Cohesive
	CPT2019-04A			258.770	20/06/2019	Groundwave	Slope Indicator	1901827	15082	2	16.00	242.77	Tailings - Granular
	CPT2019-04B	412,303.00	6,251,497.00	268.870	21/06/2019	Groundwave	Soil Instruments	62522	15082	3	37.00	231.87	Slimes
	CPT2019-04B			268.870	21/06/2019	Groundwave	Soil Instruments	62520	15082	4	25.00	243.87	Tailings - Granular
	CPT2019-04B			268.870	21/06/2019	Groundwave	Soil Instruments	62521	15082	5	34.00	234.87	Slimes
	CPT2019-04C	412,368.00	6,251,443.00	263.790	28/06/2019	Probedrill	Slope Indicator	1901845	15214	1	12.50	251.29	Tailings - Granular
	CPT2019-04C			263.790	28/06/2019	Probedrill	Slope Indicator	1901850	15214	2	25.00	238.79	Slimes
	CPT2019-05A	412,414.00	6,251,744.00	268.860	22/06/2019	Groundwave	Slope Indicator	1901844	14495	1	36.00	232.86	Residual Soil
	CPT2019-05A			268.860	22/06/2019	Groundwave	Slope Indicator	1901846	14495	2	33.00	235.86	Tailings - Granular
	CPT2019-05A			268.860	22/06/2019	Groundwave	Slope Indicator	1901858	14495	3	25.00	243.86	Tailings - Cohesive

CPT2019-05B	412,468.00	6,251,721.00	264.570	19/06/2019	Probedrill	Slope Indicator	1901841	15207	1	10.00	254.57	Tailings - Granular
CPT2019-05B			264.570	19/06/2019	Probedrill	Slope Indicator	1901833	15207	2	25.50	239.07	Tailings - Cohesive
CPT2019-05B			264.570	19/06/2019	Probedrill	Slope Indicator	1901834	15207	3	32.00	232.57	Residual Soil

TSF2-2020	CPT ID	Easting (m)	Northing (m)	CPT RL (m)	Date Installed	Installer	VWP Manufacturer	VWP Serial #	Readout box ID Node	Channel No	Depth (m)	VWP Sensor RL (m)	Location
	TSF2-CPT20-01	412,368.02	6,251,761.00	259.450	21/09/2020	Hagstrom	Slope Indicator	2002735	14495	5	47.00	212.45	Embankment-Upper Bench
	TSF2-CPT20-02	412,339.56	6,251,771.30	250.390	23/09/2020	Hagstrom	Slope Indicator	2002724	33221	5	31.00	219.39	Embankment-Lower Bench
	TSF2-CPT20-03	412,222.19	6,251,523.17	249.750	TBC	TBC	Slope Indicator	TBC	TBC	TBC	26.20	223.55	Embankment-Lower Bench
	TSF2-CPT20-04	412,266.69	6,251,619.99	249.930	10/09/2020	Probedrill	Slope Indicator	2002719	16316	1	22.26	227.67	Embankment-Lower Bench
	TSF2-CPT20-05	412,287.47	6,251,716.02	245.760	8/09/2020	Probedrill	Slope Indicator	2002737	33221	5	7.70	238.06	Toe Line
	TSF2-CPT20-06	412,339.68	6,251,837.76	246.490	TBC	Probedrill	Slope Indicator	TBC	TBC	TBC	13.60	232.89	Toe Line
	TSF2-CPT20-07	412,384.01	6,251,957.70	247.910	8/09/2020	TBC	Slope Indicator	2002722	16700	1	25.62	222.29	Toe Line
	TSF2-CPT20-08	412,426.09	6,252,077.46	250.980	TBC	TBC	Slope Indicator	TBC	TBC	TBC	4.32	246.66	Toe Line
	TSF2-CPT20-09	412,193.52	6,251,687.04	241.930	9/09/2020	TBC	Slope Indicator	TBC	TBC	TBC	10.80	231.13	Toe Line
	TSF2-CPT20-10	412,263.98	6,251,687.04	245.150	TBC	TBC	Slope Indicator	TBC	TBC	TBC	19.78	225.37	Toe Line
	TSF2-CPT20-11	412,320.18	6,251,777.80	245.860	TBC	TBC	Slope Indicator	TBC	TBC	TBC	15.22	230.64	Toe Line
	TSF2-CPT20-12	412,347.97	6,251,862.21	246.870	TBC	TBC	Slope Indicator	TBC	TBC	TBC	11.18	235.69	Toe Line
	TSF2-CPT20-13	412,409.56	6,252,025.70	248.980	TBC	Probedrill	Slope Indicator	2002721	16610	1	26.86	222.12	Toe Line

TSF2 2023 - Replacement VWPs	CPT ID	Easting (m)	Northing (m)	CPT RL (m)	Date Installed	Installer	VWP Manufacturer	VWP Serial #	Readout box ID Node	Channel No	Depth (m)	VWP Sensor RL (m)	Target Strata
	CPT2023-01A Deep	412,430.39	6,250,985.32	263.363	1/09/2023	Hagstrom	GeoMotion	80392	82610	1	29.80	233.56	Residual Soil
	CPT2023-01A Shallow			263.363	1/09/2023	Hagstrom	GeoMotion	80394		2	17.80	245.56	Embankment Fill
	CPT2023-01B Deep	412,501.80	6,251,062.30	280.564	1/09/2023	Probedrill	GeoMotion	80411	55618	1	44.90	235.66	Residual Soil
	CPT2023-01B Shallow			280.564	1/09/2023	Probedrill	GeoMotion	80407		2	31.90	248.66	Tailings - Granular
	CPT2023-01C Deep	412,519.15	6,251,083.49	279.813	1/09/2023	Probedrill	GeoMotion	80406	15207	2	39.10	240.71	Residual Soil
	CPT2023-01C Shallow			279.813	1/09/2023	Probedrill	GeoMotion	80412		1	26.00	253.81	Tailings - Granular
	CPT2023-02B Deep	412,354.46	6,251,198.49	280.726	1/09/2023	Probedrill	GeoMotion	78688	37285	2	46.40	234.33	Residual Soil
	CPT2023-02B Intermediate			280.726	1/09/2023	Probedrill	GeoMotion	78687		1	43.90	236.83	Residual Soil
	CPT2023-02B shallow			280.726	1/09/2023	Probedrill	GeoMotion	78704		3	38.90	241.83	Tailings - Cohesive
	CPT2023-03B	412,238.66	6,251,285.58	275.198	1/09/2023	Hagstrom	GeoMotion	80541	87285	1	30.80	244.40	Tailings - Granular
	CPT2023-04A Deep	412,253.44	6,251,513.47	261.242	1/09/2023	Hagstrom	GeoMotion	80544	84740	1	26.00	235.24	Tailings - Cohesive
	CPT2023-04A Shallow			261.242	1/09/2023	Hagstrom	GeoMotion	80389		2	18.50	242.74	Tailings - Granular
	CPT2023-04B	412,301.04	6,251,497.30	274.768	1/09/2023	Hagstrom	GeoMotion	80542	82245	1	29.80	244.97	Tailings - Granular
	CPT2023-05A	412,419.23	6,251,743.04	276.930	1/09/2023	Hagstrom	GeoMotion	78693	83838	1	38.30	238.63	Tailings - Granular
	CPT2023-05B Deep	412,467.93	6,251,722.14	278.346	1/09/2023	Probedrill	GeoMotion	80405	84610	1	45.85	232.50	Residual Soil
	CPT2023-05B Intermediate			278.346	1/09/2023	Probedrill	GeoMotion	80418		2	39.35	239.00	Tailings - Cohesive
	CPT2023-05B shallow			278.346	1/09/2023	Probedrill	GeoMotion	80417		3	23.85	254.50	Tailings - Granular

TSF3 2023	CPT ID	Easting (m)	Northing (m)	CPT RL (m)	Date Installed	Installer	VWP Manufacturer	VWP Serial #	Readout box ID Node	Channel No	Depth (m)	VWP Sensor RL (m)	Target Strata	
	TSF3-CPT01	411,887.20	6,250,511.00	256.575	8/09/2023	Probedrill	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Tailings
	TSF3-CPT02	411,898.30	6,250,383.00	256.806	8/09/2023	Probedrill	n/a	n/a	n/a	n/a	n/a	n/a	n/a	Tailings
	TSF3-VWP2023-1A Shallow	411,836.04	6,250,736.83	259.420	22/09/2023	Hagstrom	GeoMotion	80537	82607	1	6.67	252.75	Embankment	
	TSF3-VWP2023-1A Deep			259.420	22/09/2023	Hagstrom	GeoMotion	80543		2	10.67	248.75	Embankment/Foundation	
	TSF3-VWP2023-2A Deep	411,884.02	6,250,732.54	259.463	22/09/2023	Hagstrom	GeoMotion	80545	81357	1	15.63	243.84	Embankment	
	TSF3-VWP2023-2A Shallow			259.463	22/09/2023	Hagstrom	GeoMotion	80364		2	11.63	247.84	Embankment/Foundation	
	TSF3-VWP2023-3A Shallow	411,920.22	6,250,729.34	259.505	22/09/2023	Hagstrom	GeoMotion	80395	83897	1	8.67	250.84	Embankment	
	TSF3-VWP2023-3A Deep			259.505	22/09/2023	Hagstrom	GeoMotion	80209		2	12.67	246.84	Embankment/Foundation	

TSF4 2018	CPT ID	Easting (m)	Northing (m)	CPT RL (m)	Date Installed	Installer	VWP Manufacturer	VWP Serial #	Readout box ID Node	Channel No	Depth (m)	VWP Sensor RL (m)	Target Strata
	VWP-01	412,856.30	6,249,618.30	255.800	25/07/2028		Slope indicator	1832267	43192	n/a	5.90	249.90	Soft Clay layer
	VWP-02	413,053.70	6,249,622.90	247.700	25/07/2028		Slope indicator	1701537	43153	n/a	7.20	240.50	Soft Clay layer
	VWP-03	413,131.70	6,249,626.20	246.400	25/07/2028		Slope indicator	1800720	43743	n/a	6.50	239.90	Soft Clay layer

TSF4 2023	TSF4 Cell 1													
	TSF4 - PZ01A	413,831.00	6,250,518.00	259.760		Geo-motion	Soil instruments	80246	85313	1	0.96	258.80		
	TSF4 - PZ01B			Not Installed										
	TSF4 - PZ01C	413,863.00	6,250,518.00	264.700		Geo-motion	Geosense	369097	85313	2	1.50	263.20		
	TSF4 - PZ01D			264.700		Geo-motion	Geosense	369093	85313	3	10.10	254.60		
	TSF4 - PZ01E	413,870.00	6,250,518.00	264.900		Geo-motion	Geosense	369101	85313	4	1.50	263.40		
	TSF4 - PZ01F			264.900		Geo-motion	Geosense	369085	85313	5	7.20	257.70		
	TSF4 - PZ02A	413,536.00	6,249,743.00	254.700		Geo-motion	Soil instruments	80320	89602	1	0.80	253.90		
	TSF4 - PZ02B			254.700		Geo-motion	Soil instruments	79276	85252	1	-1.20	255.90		
	TSF4 - PZ02C	413,536.04	6,249,700.96	265.000		Geo-motion	Geosense	369099	85252	2	4.70	260.30		
	TSF4 - PZ02D			265.000		Geo-motion	Geosense	369081	85252	3	14.70	250.30		
	TSF4 - PZ02E	413,536.09	6,249,685.00	265.000		Geo-motion	Geosense	369096	85252	4	4.20	260.80		
	TSF4 - PZ02F			265.000		Geo-motion	Soil instruments	79269	85252	5	11.20	253.80		
	TSF4 - PZ03A	413,161.00	6,249,753.00			Geo-motion	Soil instruments	79266	85347	1		249.40	Suspended piezometer	
	TSF4 - PZ03B					Geo-motion	Soil instruments	79267	85347	2		251.40	Suspended piezometer	
	TSF4 - PZ03C	413,160.85	6,249,701.01	265.000		Geo-motion	Soil instruments	77969	85347	3	14.00	251.00		
	TSF4 - PZ03D			265.000		Geo-motion	Geosense	369092	85347	4	24.00	241.00		
	TSF4 - PZ03E	413,161.15	6,249,666.01	260.100		Geo-motion	Geosense	369446	85357	1	9.40	250.70		
	TSF4 - PZ03F			260.100		Geo-motion	Geosense	369441	85357	2	16.40	243.70		
	TSF4 - PZ07	413,882.00	6,250,485.00	264.900		Geo-motion	Geosense	369094	119004	1	14.90	250.00		
	TSF4 - PZ08	413,327.07	6,249,679.04	264.900		Geo-motion	Geosense	369100	85357	3	30.90	234.00		
	TSF4 - PZ10	413,394.00	6,249,627.00	254.100		Geo-motion	Geosense	369095	85347	5	5.70	248.40		
	TSF4 - PZ11	413,411.00	6,249,641.00	254.100		Geo-motion	Geosense	369090	85357	4	5.70	248.40		
	TSF4 Cell 2													
	TSF4 - PZ04A	412,867.00	6,249,746.25	256.157		Geo-motion	Geosense	369041	85305	1	0.65	255.51		
	TSF4 - PZ04B	Not Installed												
	TSF4 - PZ04C	412,867.00	6,249,701.00	264.800		Geo-motion	Geosense	369088	85305	2	3.60	261.20		
	TSF4 - PZ04D			264.800		Geo-motion	Geosense	369089	85305	3	13.60	251.20		
TSF4 - PZ04E	412,867.00	6,249,686.00	264.800		Geo-motion	Geosense	369087	85305	4	3.70	261.10			
TSF4 - PZ04F			264.800		Geo-motion	Geosense	369084	85305	5	10.70	254.10			

TSF4 - PZ05A	412,428.41	6,250,613.97	262.400		Geo-motion	Soil instruments	79292	85299	1	5.70	256.70	
TSF4 - PZ05B			262.400		Geo-motion	Soil instruments	80241	85299	2	15.70	246.70	
TSF4 - PZ05C	412,444.19	6,250,568.48	265.700		Geo-motion	Soil instruments	79283	85299	3	8.10	257.60	
TSF4 - PZ05D			265.700		Geo-motion	Soil instruments	79273	85299	4	18.10	247.60	
TSF4 - PZ05E	412,459.56	6,250,523.85	257.100		Geo-motion	Geosense	369060	85299	5	0.00	257.10	
TSF4 - PZ06A	412,515.21	6,250,644.07	262.500		Geo-motion	Soil instruments	79270	84235	1	6.80	255.70	
TSF4 - PZ06B			262.500		Geo-motion	Soil instruments	79264	84235	2	16.80	245.70	
TSF4 - PZ06C	412,530.99	6,250,598.58	265.700		Geo-motion	Soil instruments	79293	84235	3	7.20	258.50	
TSF4 - PZ06D			265.700		Geo-motion	Soil instruments	80311	84235	4	17.20	248.50	
TSF4 - PZ06E	412,557.00	6,250,593.00	255.000		Geomotion	Soil instruments	80229	84235	5	0.90	254.10	
Divider wall												
TSF4 - PZ09A	413,014.00	6,250,010.00	264.900		Geo-motion	Geosense	370015	84367	1	15.40	249.50	
TSF4 - PZ09B			264.900		Geo-motion	Geosense	370006	84367	2	5.40	259.50	

Appendix D

Piezometer reports

Talison Lithium Pty Ltd (Talison Lithium)

General Piezometer Report

Tailings Storage Facilities

Generated by TOMS

Contents

General report	2
Summary	2

General report

Summary

This report provides an overview and detailed analysis of the piezometers in each Tailings Storage Facility (TSF) in this time interval: 01-10-2024 06:32 to 31-03-2025 06:32

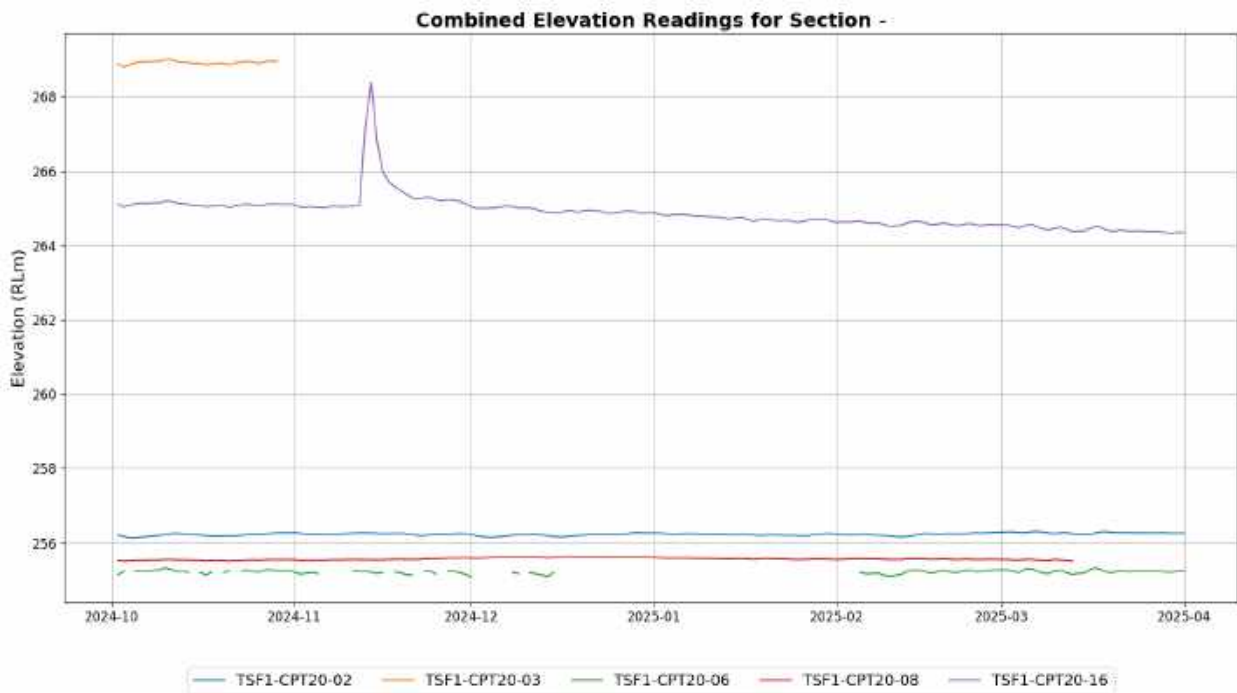
General Inventory

TSF: TSF1

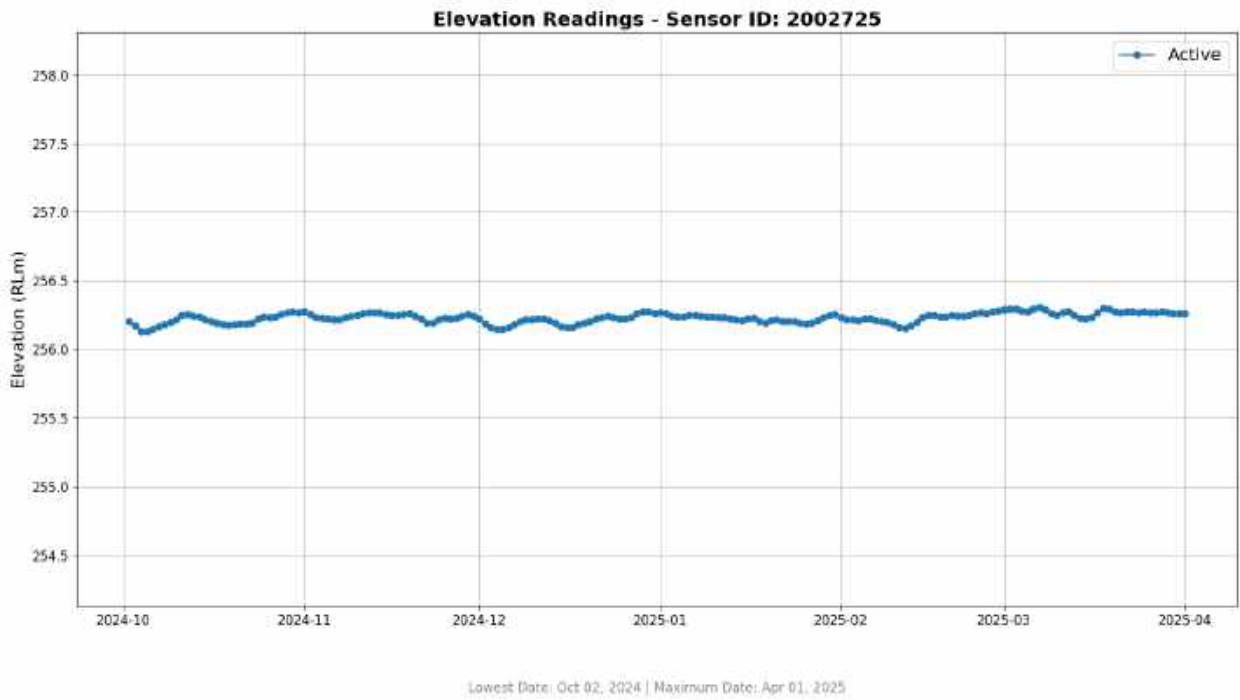
Name	Piezo ID	Section	Tip Depth	Tip Elevation	Status	Last Reading	Water Elevation	Current TARP
TSF1-CPT20-01	2002732	-	15.5	264.27	Disconnected	12-09/24	270.34	-
TSF1-CPT20-02	2002725	-	16.5	256.2	Active	09-06/25	256.34	-
TSF1-CPT20-03	2002733	-	16.5	265.36	Disconnected	28-10/24	268.94	-
TSF1-CPT20-06	2002739	-	14.0	253.85	Active	09-06/25	255.31	-
TSF1-CPT20-08	2002738	-	25.0	243.58	Disconnected	30-04/25	255.58	-
TSF1-CPT20-16	2002723	-	16.5	259.87	Disconnected	08-06/25	267.11	-

Section: -

Piezometer	Min	Max	Average	Q1-Q3	TARPS
TSF1-CPT20-02	256.12	256.32	256.23	256.21-256.26	-
TSF1-CPT20-03	268.77	269.04	268.92	268.89-268.95	-
TSF1-CPT20-06	255.07	255.36	255.22	255.19-255.26	-
TSF1-CPT20-08	255.5	255.66	255.57	255.54-255.59	-
TSF1-CPT20-16	264.31	268.8	264.87	264.59-265.06	-



Piezometer: TSF1-CPT20-02



Piezometer: TSF1-CPT20-03

