

# **Appendix A – Tailings Storage Data Sheet (TSDS) and Explanatory Notes**

**TAILINGS STORAGE DATA SHEET**

<b>Project operator: Regis Resources Limited</b>			
<b>Project name: Moolart Well Gold Project</b>		Date: September 2021	
TSF name: TSF3		Commodity: Gold	
Name of data provider: CMW / Regis Resources Limited		Phone: +61 8 9442 2200 and +61 400 644 910	
TSF centre co-ordinates: 6,947,000 m North and 437,000 m East on Zone 51 of the MGA geodetic datum			
Mining Tenement and Holder(s) details: Mining Leases M38/498 and M38/499			
<b>TSF Data</b>			
TSF status: Proposed			
Type of TSF: <sup>1</sup> Paddock with sidehill valley		Number of cells: <sup>2</sup> 1	
Hazard rating: <sup>3</sup> High C		TSF category: <sup>4</sup> 1	
Catchment area: <sup>5</sup> 92.3 ha		Nearest watercourse: Eastern catchment (~100 m to east)	
Date deposition started (mm/yy): -		Date deposition completed (mm/yy): -	
Tailings discharge method: <sup>6</sup> Multi-point spigot		Water recovery method: <sup>7</sup> Pumped Central Decant	
Bottom of facility sealed or lined? <u>Y</u> / N		Type of seal or liner: <sup>8</sup> Compacted colluvial clayey sand	
Depth to original groundwater level m below GL: $\geq 18$		Original groundwater TDS mg/L: 1,109 mg/L to 2,050 mg/L	
Ore process: <sup>9</sup> CIL/CIP		Tailings Deposition rate Mtpa: <sup>10</sup> 3.0	
Impoundment volume (present) m <sup>3</sup> : 0		Expected maximum m <sup>3</sup> : $6.1 \times 10^6$	
Mass of solids stored (present): tonnes 0		Expected maximum tonnes: $8.0 \times 10^6$	
<b>Above ground facilities</b>			
Foundation soils: Compacted clayey silty sand		Foundation rocks: Laterite over mafics, diorite and dolerite	
Starter bund construction materials: <sup>11</sup> Clayey mine waste against waste dump		Wall lifting by: -	
Wall construction method/materials: Mechanical		Wall lifting material: <sup>12</sup> -	
Maximum wall height (present) m above GL: <sup>13</sup> 0		Expected maximum m: 15.0	
Crest length (present) m: 0		Expected maximum m: 3,205	
Impoundment area (present) ha: 0		Expected maximum ha: 96.8	
<b>Below ground (in-pit) facilities NA</b>			
Initial pit depth (maximum) m: -		Area of pit base ha: -	
Thickness of tailings (present) m: -		Expected maximum m: -	
Current surface area of tailings ha: -		Final surface area of tailings ha:	
<b>Properties of tailings and return water</b>			
TDS mg/l: 5,200 mg/L	pH: 6.5 – 9.5	Solids content %: 50	Deposited density t/m <sup>3</sup> : 1.4 dry
Potentially hazardous substances: <sup>14</sup> Cyanide, cyanide ions		WAD CN mg/l: 30 - <50	Total CN mg/l: -
Any other NPI listed substances in the TSF? <sup>15</sup> <u>Y</u> / <u>N</u>			

## Explanatory notes for completing tailings storage data sheet

The following notes are provided to assist the proponent to complete the tailings storage data sheet.

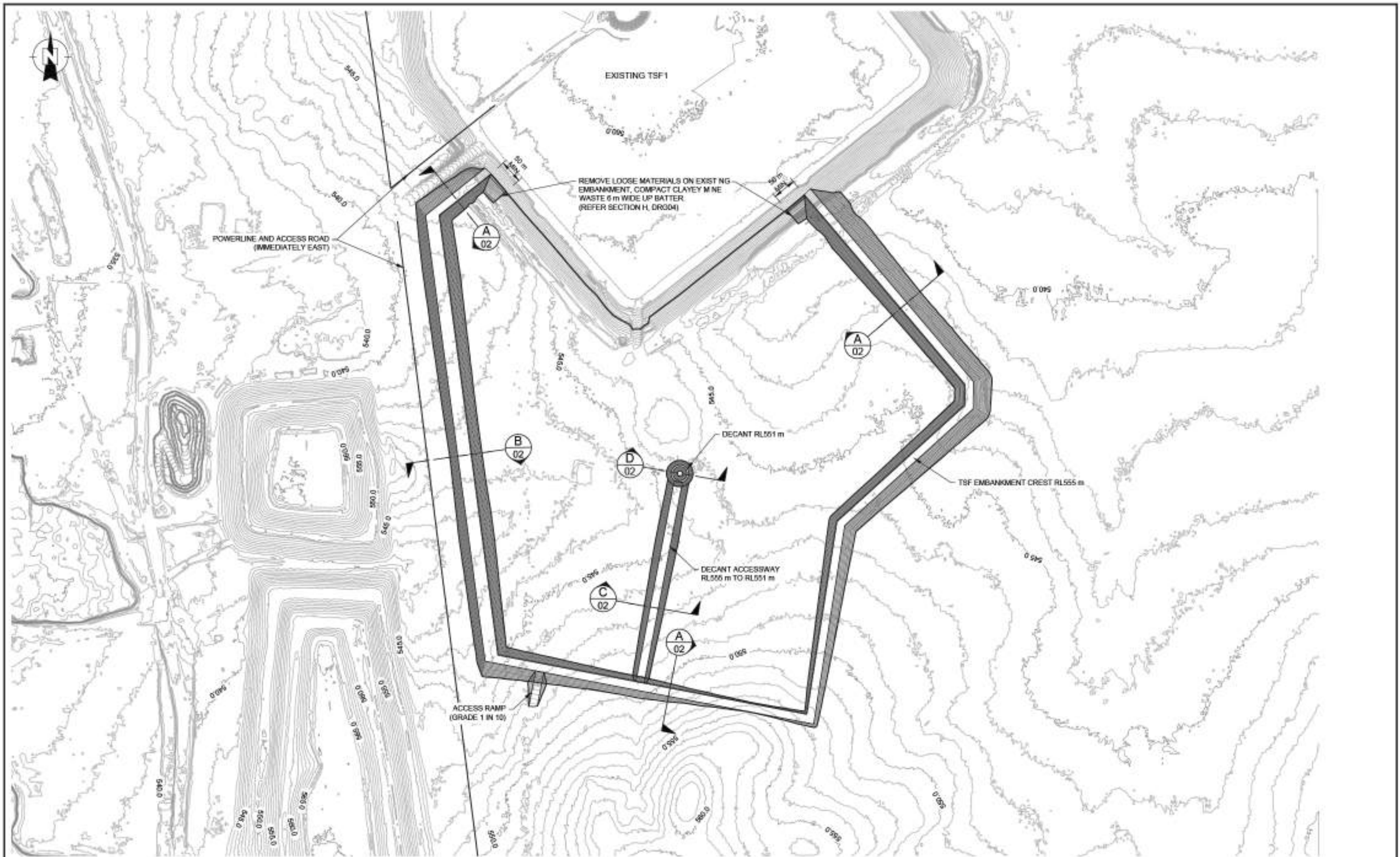
1. Paddock (ring-dyke), cross-valley, side-hill, in-pit, depression, waste fill, central thickened discharge, stacked tailings
2. Number of cells operated using the same decant arrangement
3. See Table 1 – Hazard rating system in the Code of practice
4. See Table 2 – Matrix of hazard ratings in the Code of practice
5. Internal for paddock (ring-dyke) type, internal plus external catchment for other facilities
6. End of pipe, (fixed), end of pipe (movable), single spigot, multi-spigots, cyclone, central thickened discharge (CTD)
7. Gravity feed decant, pumped central decant, floating pump, wall/side mounted pump
8. Clay, synthetic
9. See list below for ore process method
10. Tonnes of solids per year
11. Record only the main material(s) used for construction, e.g. clay, sand, silt, gravel, laterite, fresh rock, weathered rock, tailings, clayey sand, clayey gravel, sandy clay, silty clay, gravelly clay or any combination of these materials
12. Any one or combination of the materials listed under item 11 above
13. Maximum wall height above the ground level (not AHD or RL)
14. Arsenic, Asbestos, Caustic soda, Copper sulphide, Cyanide, Iron sulphide, Lead, Mercury, Nickel sulphide, Sulphuric acid, Xanthates, radioactive elements
15. NPI – National pollution inventory (contact Department of Environmental Protection for information on NPI listed substances)

## Ore process methods

The ore process methods may be recorded as follows:

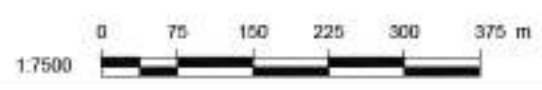
Acid leaching (Atmospheric)	Flotation
Acid leaching (Pressure)	Gravity separation
Alkali leaching (Atmospheric)	Heap leaching
Alkali leaching (Pressure)	Magnetic separation
Bayer process	Ore sorters
Becher process	Pyromet
BIOX	SX/EW (Solvent extraction/Electro wining)
Crushing and screening	Vat leaching
CIL/CIP	Washing and screening

## Appendix B – Drawings

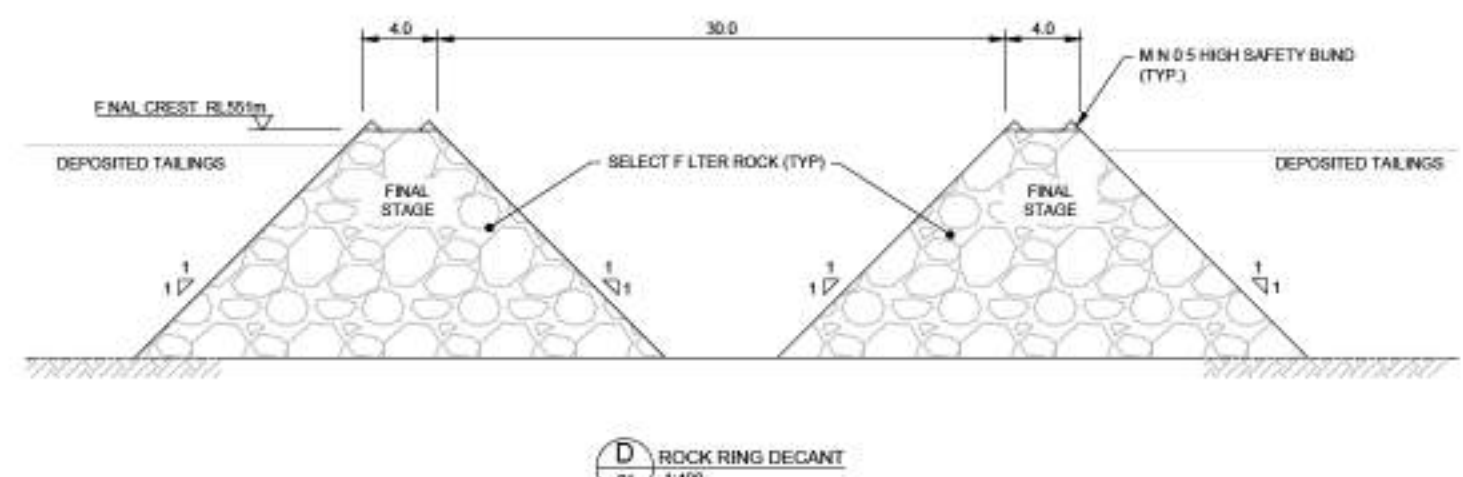
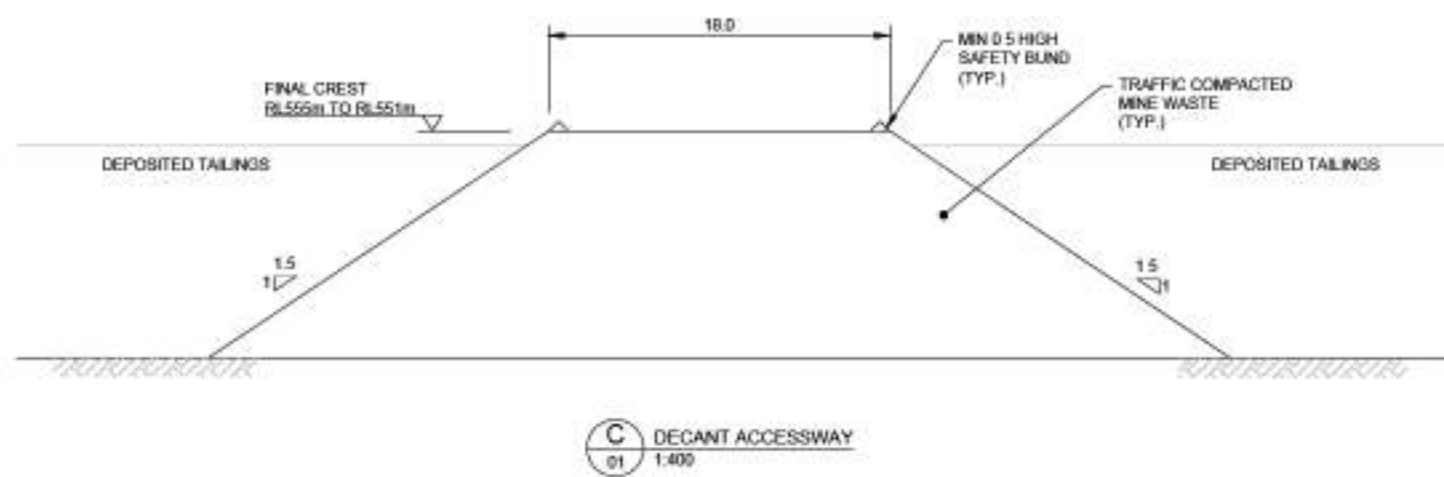
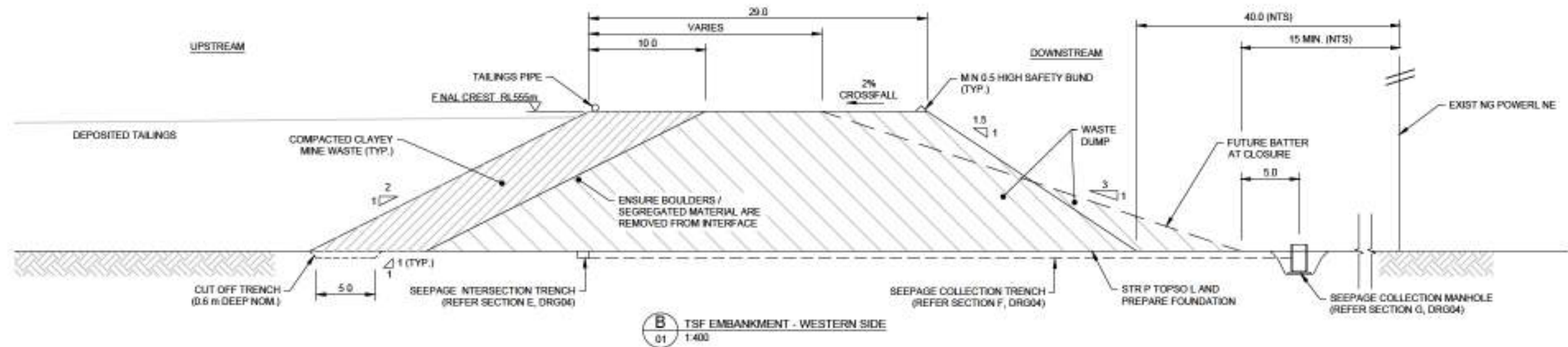
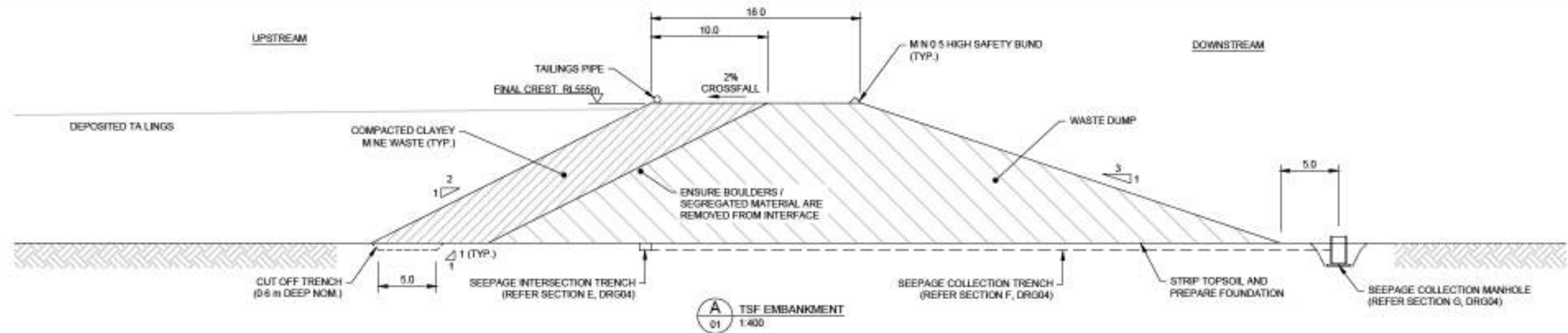


**NOTES:**

1. CONTOURS GENERATED FROM CLIENT SUPPLIED FILE: "20200123 REGIS - MOOLART WELL - 1M CONTOURS AG084 Z51.DXF"



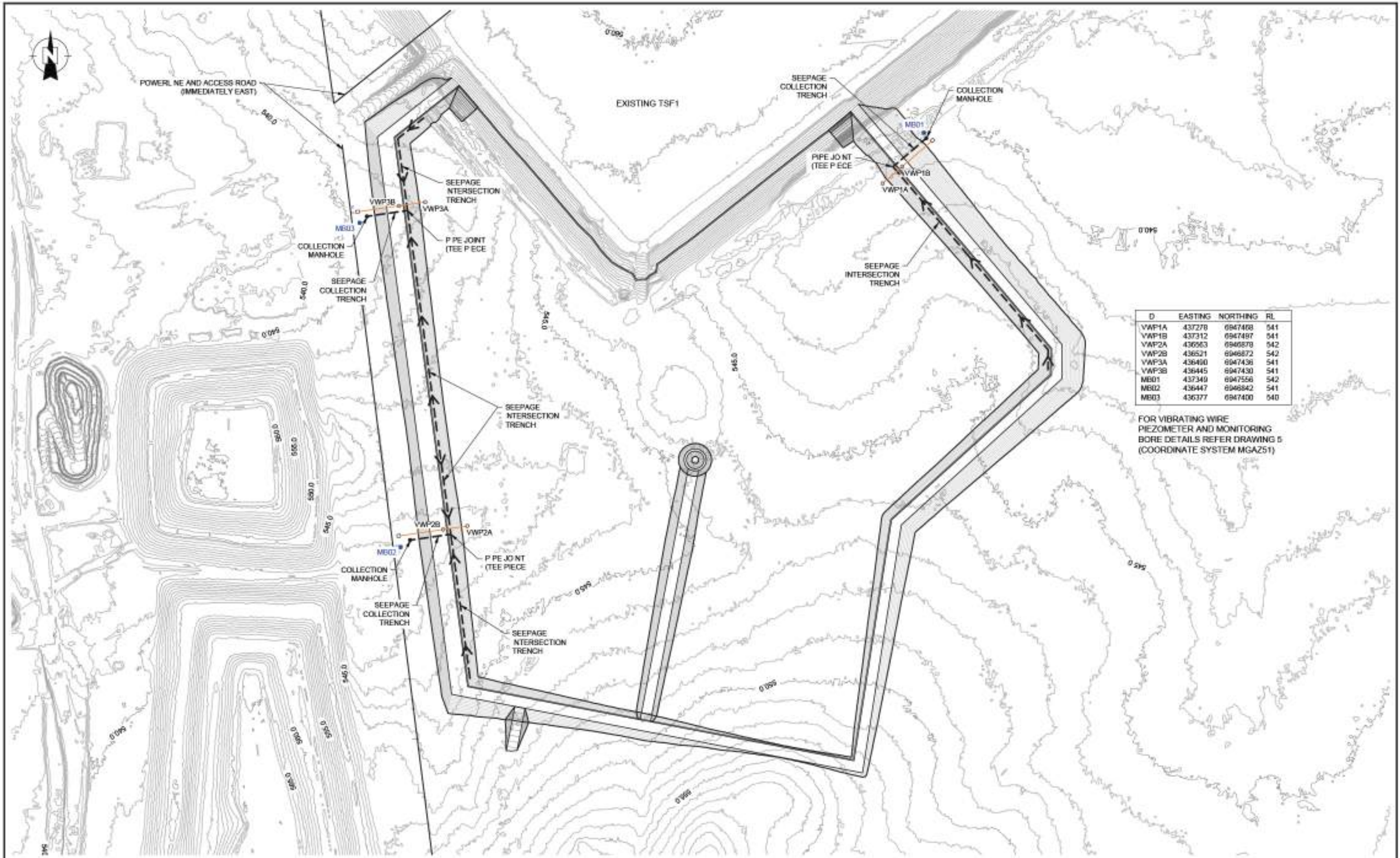
CLIENT:	<b>REGIS RESOURCES LTD</b>		DRAWN:	DE	PROJECT:	PER2021-0102
PROJECT:	<b>TSF3 MOOLART WELL DUKETON, WA</b>		CHECKED:	CH	DRAWING:	01
TITLE:	<b>PLAN</b>		REVISION:	1	SCALE:	1:7500
			DATE:	13.10.21	SHEET:	A3 L



NOTES:  
1. ALL DIMENSIONS IN METRES UNLESS SPECIFIED.



CLIENT:	<b>REGIS RESOURCES LTD</b>		DRAWN:	DE	PROJECT:	PER2021-0102
PROJECT:	<b>TSF3 MOOLART WELL DUKETON, WA</b>		CHECKED:	CH	DRAWING:	02
TITLE:	<b>SECTIONS &amp; DETAILS SHEET 1</b>		REVISION:	1	SCALE:	AS SHOWN
			DATE:	12.10.21	SHEET:	A3 L



ID	EASTING	NORTHING	RL
VWP1A	437278	6947468	541
VWP1B	437312	6947497	541
VWP2A	436563	6946878	542
VWP2B	436521	6946872	542
VWP3A	436460	6947436	541
VWP3B	436445	6947430	541
MB01	437349	6947556	542
MB02	436447	6946842	541
MB03	436377	6947400	540

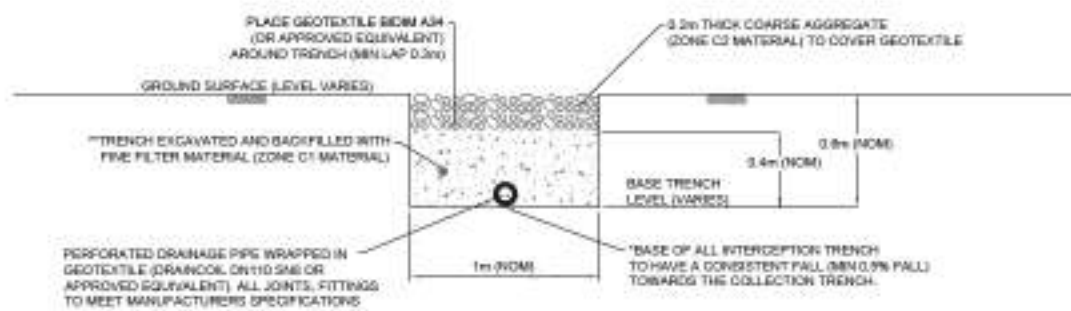
FOR VIBRATING WIRE  
PIEZOMETER AND MONITORING  
BORE DETAILS REFER DRAWING 5  
(COORDINATE SYSTEM MGA251)

**NOTES:**

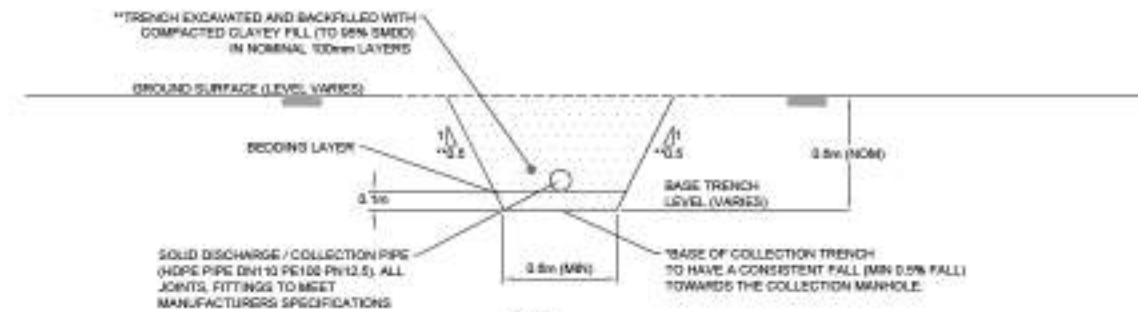
1. CONTOURS GENERATED FROM CLIENT SUPPLIED FILE "20200123 REGIS - MOOLART WELL - 1M CONTOURS AG084 Z51.DXF"



CLIENT:	<b>REGIS RESOURCES LTD</b>		DRAWN:	DE	PROJECT:	PER2021-0102
PROJECT:	<b>TSF3 MOOLART WELL DUKETON, WA</b>		CHECKED:	CH	DRAWING:	03
TITLE:	<b>UNDERDRAINAGE AND INSTRUMENTATION PLAN</b>		REVISION:	1	SCALE:	1:6000
			DATE:	13.10.21	SHEET:	A3 L

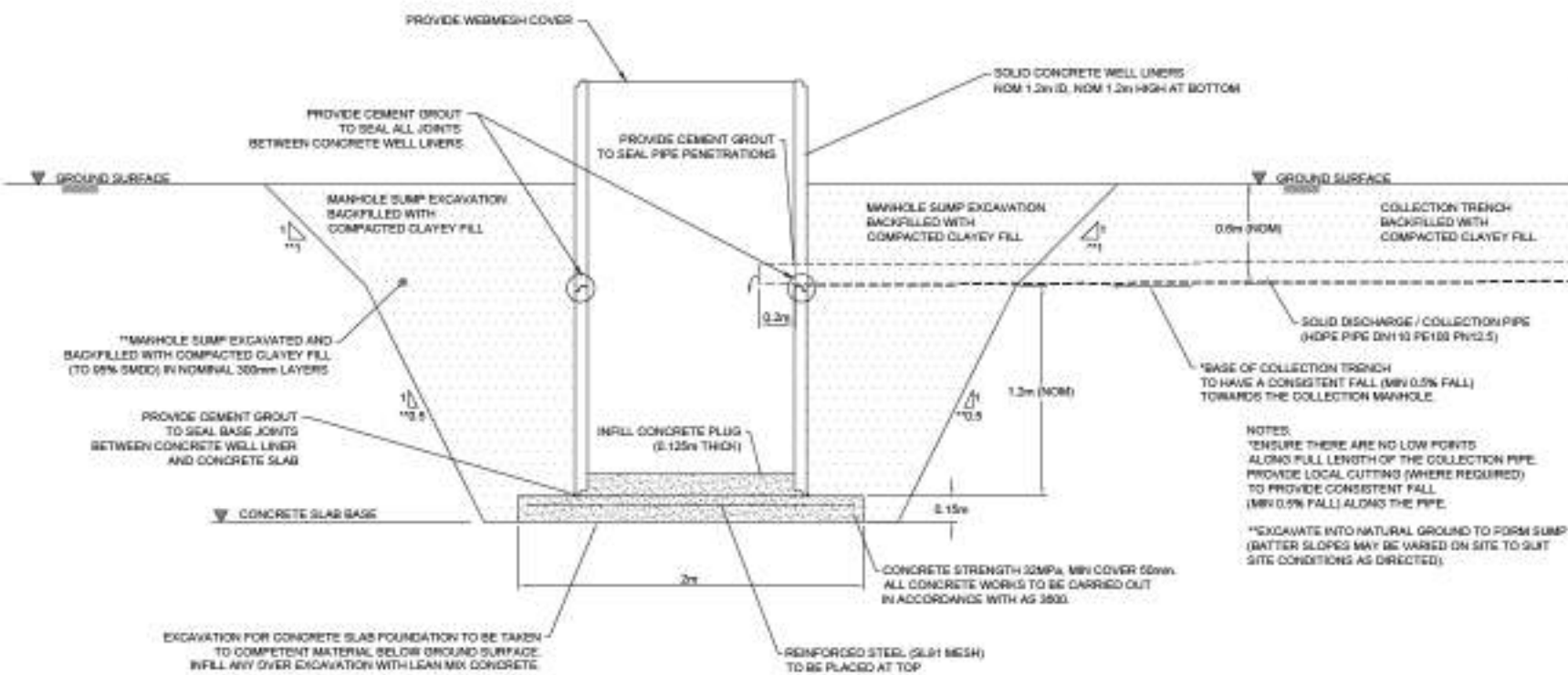


**E** SEEPAGE INTERCEPTION TRENCH  
02 1:40

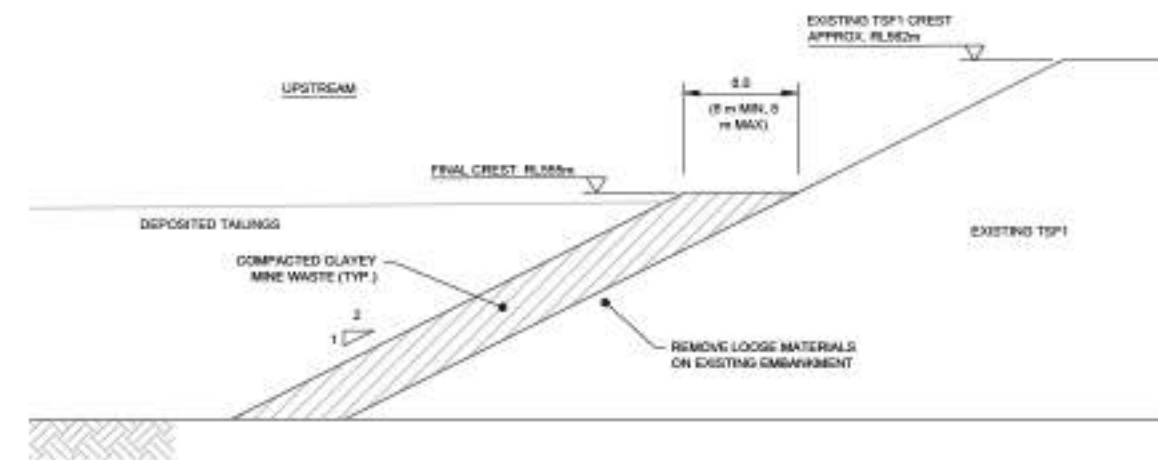


**NOTES:**  
 \*ENSURE THERE ARE NO LOW POINTS ALONG FULL LENGTH OF THE COLLECTION PIPE. PROVIDE LOCAL CUTTING (WHERE REQUIRED) TO PROVIDE CONSISTENT FALL (MIN 0.5% FALL) ALONG THE PIPE.  
 \*\*EXCAVATE INTO NATURAL GROUND TO FORM TRENCH (BATTER SLOPES MAY BE VARIED ON SITE TO SUIT SITE CONDITIONS AS DIRECTED). COLLECTION TRENCH WILL BE CONSTRUCTED PRIOR TO CONSTRUCTION OF WASTE DUMP EMBANKMENT.  
 \*\*\*BACKFILL TO BE COMPACTED IN THE COLLECTION TRENCH BY HAND TAMPING AROUND THE PIPE WITH SMALL PLATE COMPACTORS. NO TRAFFIC SHALL CROSS PIPEWORK UNTIL A MINIMUM COVER OF 0.5m HAS BEEN PLACED AND COMPACTED OVER THE PIPEWORK.

**F** SEEPAGE COLLECTION TRENCH  
02 1:40



**G** SEEPAGE COLLECTION MANHOLE  
02 1:40



**H** SECTION THROUGH EXISTING TSF1 BATTER  
01 1:400

**ZONED MATERIAL LEGEND:**

- ZONE C1 - UNDERDRAINAGE FINE FILTER MATERIAL:**  
 SCREENED ROCK WASTE OR PROJECT BORROW  
 PIT GRAVELS  
 (GRADING 5mm TO 40mm)
- ZONE C2 - UNDERDRAINAGE COARSE FILTER MATERIAL:**  
 SCREENED ROCK WASTE OR PROJECT BORROW  
 PIT GRAVELS  
 (GRADING 20mm TO 75mm)

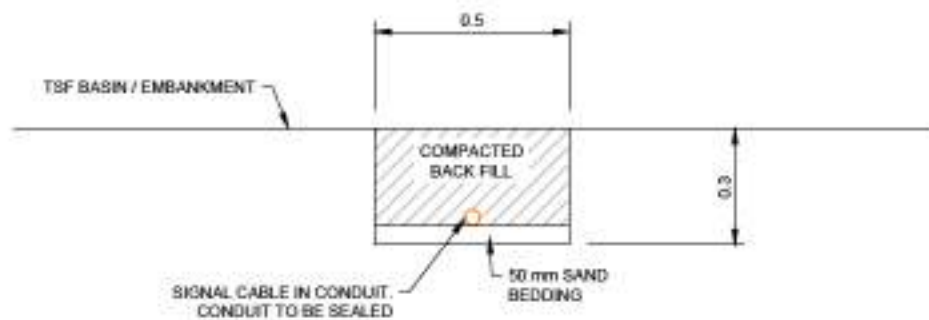
**NOTES:**

1. ALL DIMENSION IN METRES UNLESS SPECIFIED.

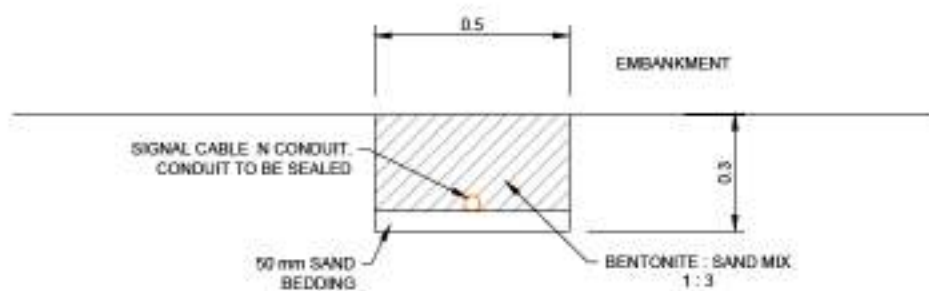


CLIENT:	<b>REGIS RESOURCES LTD</b>	DRAWN:	DE	PROJECT:	PER2021-0102
PROJECT:	<b>TSF3 MOOLART WELL DUKETON, WA</b>	CHECKED:	CH	DRAW NO.:	04
TITLE:	<b>SECTIONS &amp; DETAILS SHEET 2</b>	REVISION:	A	SCALE:	AS SHOWN
		DATE:	07.09.21	SHEET:	A3 L

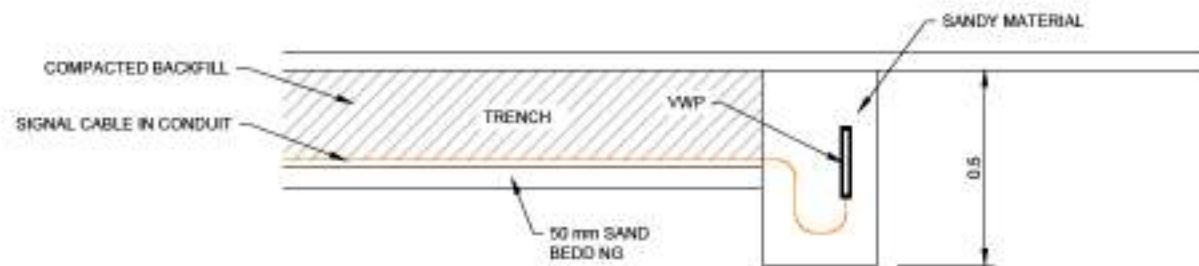




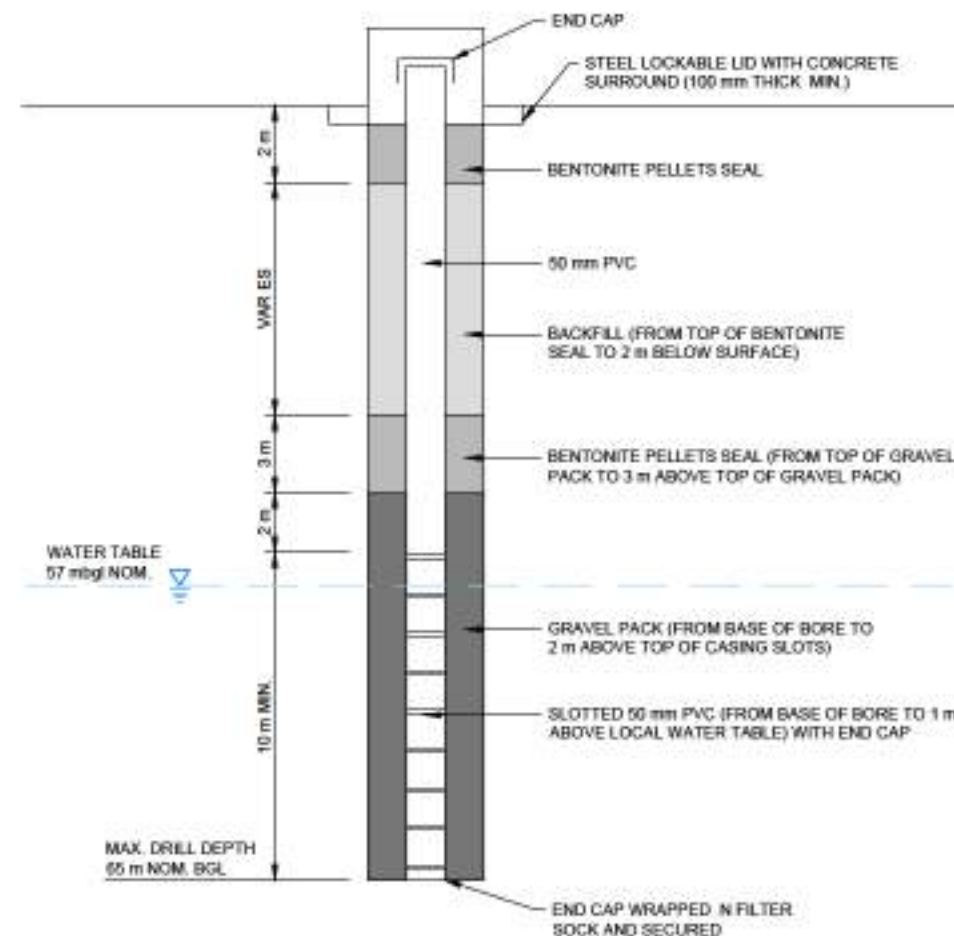
VWP TRENCH - TYPICAL DETAIL  
1:20



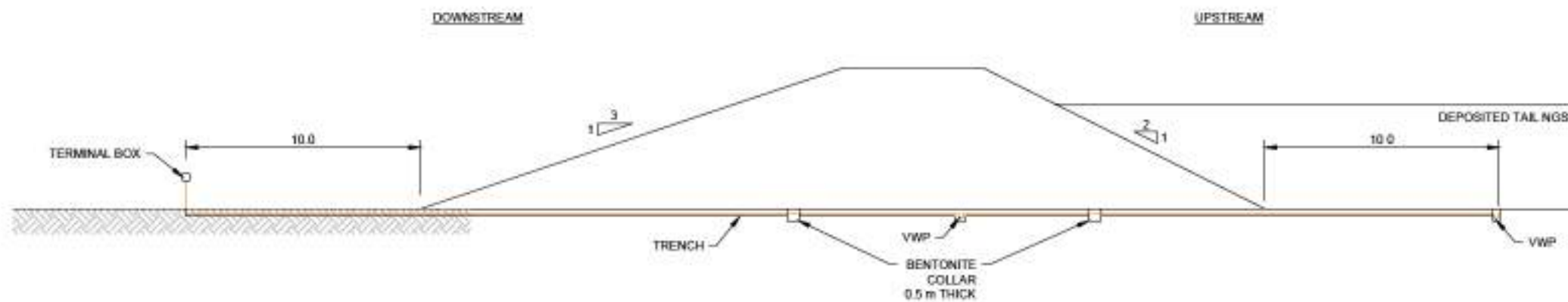
BENTONITE COLLAR - TYPICAL DETAIL  
1:20



VIBRATING WIRE PIEZOMETER - TYPICAL DETAIL  
1:20



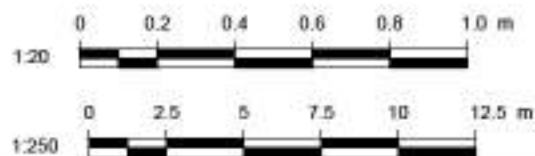
MONITORING BORE - TYPICAL DETAIL  
NTS



EMBANKMENT - TYPICAL SECTION  
1:250

NOTES:

1. VIBRATING WIRE PIEZOMETER REFERS TO 3.5 BAR (50 PSI) PIEZOMETER MODEL NO. 52610520 BY DCSI
2. SIGNAL CABLE MODEL NO. 50613824 BY DCSI
3. ALL DIMENSION IN METRES UNDO

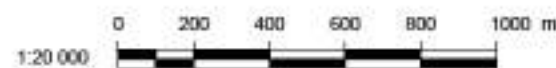


CLIENT:	<b>REGIS RESOURCES LTD</b>	DRAWN:	DE	PROJECT:	PER2021-0102
PROJECT:	<b>TSF3 MOOLART WELL DUKETON, WA</b>	CHECKED:	CH	DRAWING:	05
TITLE:	<b>INSTRUMENTATION DETAILS</b>	REVISION:	2	SCALE:	AS SHOWN
		DATE:	12.10.21	SHEET:	A3 L



**NOTES:**

1. CONTOURS GENERATED FROM CLIENT SUPPLIED FILE: "20200123 REGIS - MOOLART WELL - 1M CONTOURS AG084 Z51.DXF"



CLIENT:	<b>REGIS RESOURCES LTD</b>	DRAWN:	DE	PROJECT:	PER2021-0102
PROJECT:	<b>TSF3 MOOLART WELL DUKETON, WA</b>	CHECKED:	CH	DRAWING:	08
TITLE:	<b>INUNDATION PLAN</b>	REVISION:	A	SCALE:	1:20,000
		DATE:	07.09.21	SHEET:	A3 L