

- Notes:
- For the area locations refer to 40-ARI-WS-71-CI-DR-1082.
  - The volumes shown do not account for any additional granular material import that may be required by the contractor for the creation of temporary construction haul roads, in addition to those shown on this drawing.

Platform levels and material volumes are subject to confirmation and change.

Area	Location	Area m2	Phase 2						Phase 3						Phase 4						Comments	
			Cut (m3)		Existing Platform Material	Superficial / Clay		Temporary Stockpiles	Cut (m3)		Inert	Superficial / Clay		Temporary Stockpiles	Cut (m3)		Inert	Superficial / Clay		Temporary Stockpiles		
			To Tip	Reuse		To Tip	Reuse		To Tip	Reuse / Clay		To Tip	Reuse		To Tip	Reuse		To Tip	Reuse			To Tip
1	North Platform	3,055	611		1,528		917	4,780													0.3m depth of existing platform to be removed and new construction provided on top.	
2	South Platform	5,360	1,072		2,680		1,340	5,580			8,454										0.25m depth of existing platform to be removed and new construction provided on top. Assumes all material previously stripped from this area is stockpiled in Area 9.	
3	Middle Extension	3,285		657		1,643		3,160														
3a	Upper Eastern Extension	3,560																				
4	North Extension	5,600		1,120		2,800		9,730														
5	East (Lower) Extension	22,240		4,448		11,120		8,230														
6	Slope	2,625		525		1,313		2,190														
7	Slope	3,300		660		1,650		270														
8	Slope	2,600		520		1,300		1,540														
9	Vent Shaft Platform	10,910																				
9a	Slope	3,330																				
10a	Welfare Facility	3,750																				
10b	Laydown Area	9,100																				
11a	Car park	6,290																				
11b	Laydown Area	4,990																				
11c	Concrete Batching Plant	10,390																				
11d	Slope	1,590																				
12	Laydown Area	10,130																				
13	Access Road	7,300		1,460		3,650		1,227														
13a	Slopes and Ditches	8,375		1,675		4,188		600														
14	Recharge Well	3,600																				
15	Access Tracks	7,340																				
16	Attenuation Ponds (Ph2)	9,300		1,860				1,635														
17	Attenuation Ponds (Ph3)	21,361																				
H	D-Walling	N/A																				
18	Bund A	5,500		1,100		2,750															Assumed scrub planting for basis of restoration soils thickness.	
19	Bund A Extension	3,890																				
20	Spill Disposal Area	4,800																				
21	Inert Bund	15,000																				
22	Temp Top Soil Bund 1	7,410																			8,886	
23	Temp Sub Soil Bund 1	7,320		1,464																		22,699
24	Temp Top Soil Bund 2	2,400																				3,631
25	Temp Sub Soil Bund 2	2,700		540																		9,510
26	Temp Top Soil Bund 3	3,800																				
27	Temp Sub Soil Bund 3	3,700																				
28	Clay Stockpile	7,160		1,432																		7,086
<b>Total</b>		233,061	1,683	17,461	4,208	30,413	2,257	4,780	34,162	5,818	1,245	11,653	30,498	2,257	1,700	210	22,075	1,600				51,806

Phase 2			Phase 3			Phase 4			Total		
Cut	Bulking	Cut (Total)	Fill	Stockpile	Total In Stockpile	Cut	Bulking	Cut (Total)	Fill	Stockpile	Total In Stockpile
Top Soil	17,461	1.05	18,334	5,818	12,517	21,388	1.05	22,456	3,635	18,823	31,339
Sub Soil	30,413	1.10	33,454	1,245	32,209	39,890	1.10	43,879	0	43,879	76,088
Superficial / Clay	34,162	1.10	37,578	30,498	7,080	56,669	1.10	62,336	21,617	40,719	47,799
Existing Platform	2,257	1.00	2,257	2,257	-1	0	1.05	0	0	0	0
Tip	Top Soil	1,683	1.05	1,767	11,653	0					
	Sub Soil	4,208	1.10	4,628							
	Other (Inert)	4,780	1.10	5,258							
<b>Total</b>		94,963		103,276	51,471				25,252	103,421	155,226

0	25/05/17	JB	CW	AH
Issue for Planning				
Issue	Date	By	Chkd	Appd

# ARUP

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Client  
**Sirius Minerals Plc**

Job Title  
**Woodsmith Mine Proposed Minehead**

**Woodsmith Mine Site Construction Phase 4 Earthworks Strategy Volume Calculations**

Scale at A1 As Shown  
Discipline Civil  
Job No **253285** Drawing Status **Planning**  
Drawing No **40-ARI-WS-71-CI-DR-1083** Issue **0**