

Key:

- Land ownership boundary
- Extents of works
- Topographical survey
- Proposed layout
- Proposed site earthwork contours
- Building layout
- Surface water drainage attenuation pond
- Surface water drainage wetland
- 2.4m high black mesh fencing
- 3m high Environmental / acoustic barrier
- Proposed brideway
- Existing trees retained
- Maximum bund height

Key to utility diversion:

- HV Existing Northern Powergrid electrical apparatus

13	07/07/17	KK	JB	CW
S73 Issue				
Issue	Date	By	Chkd	Appd

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Client: **Sirius Minerals Plc**

Job Title: **Woodsmith Mine Minehead**

Woodsmith Mine Operational Masterplan

Scale at A1: 1:2000

Block Name: Highways

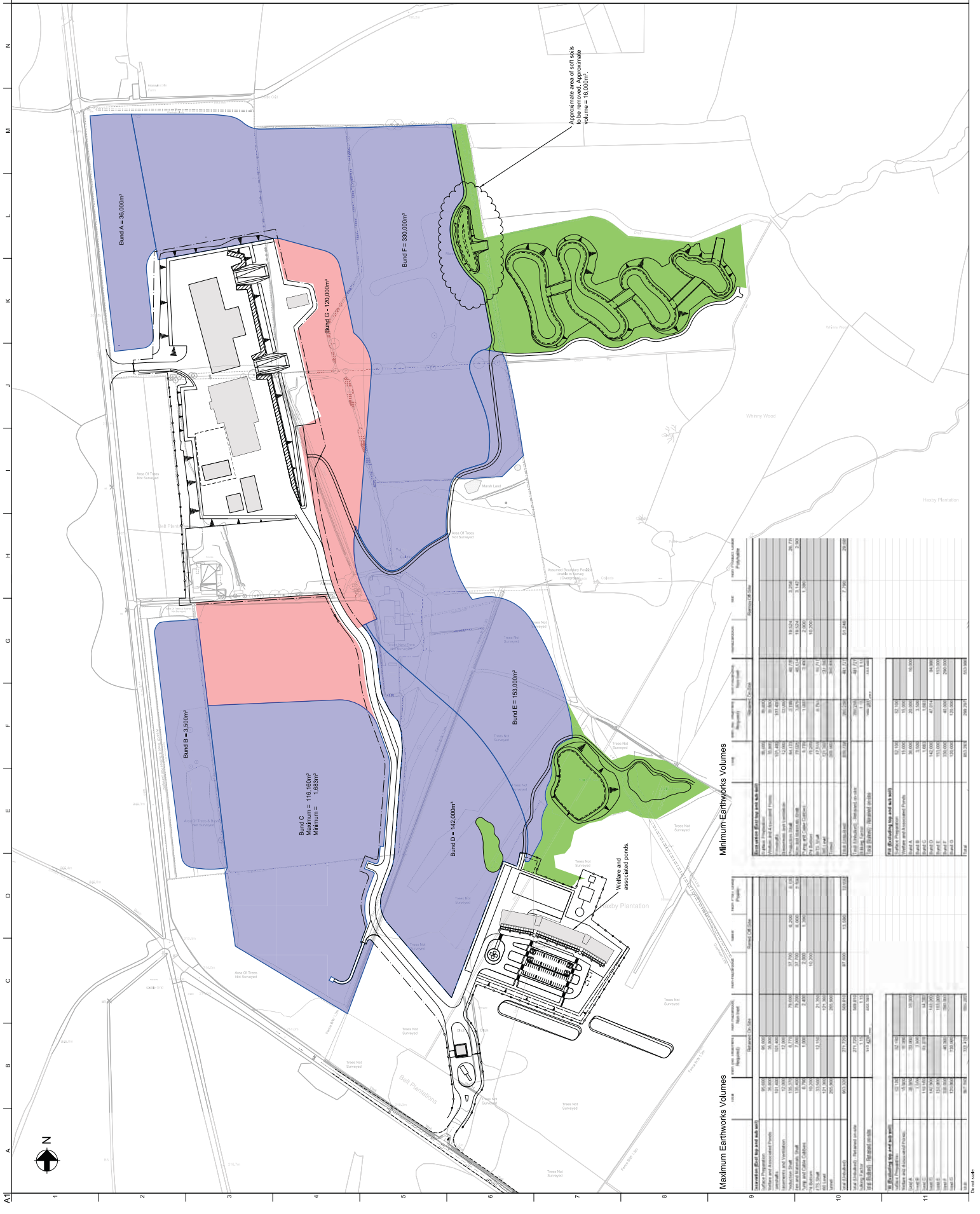
Job No: 253285
 Drawing No: Issue

Drawing No: YP-P2-CX-031
 Issue: 13

- This drawing shows earthwork requirements in relation to the proposed earthwork bunds.
- Existing subsoil and top soil is to be stripped and replaced with topsoil to the proposed bunds as follows. Assumed existing and proposed earthwork layer thicknesses are as follows:
 - Existing Subsoil: 0.20m
 - Existing Topsoil: 0.15m
 - Proposed Subsoil: 0.20m
 - Proposed Topsoil: 0.15m
- Proposed increases as follows:
 - Woodland (Non-Cropped): 0.30m
 - Woodland (Cropped): 0.30m
 - Scrub: 0.15m
 - Grassland: 0.30m
- Volumes shown are bund capacities excluding top soil and sub soil.

Top soil	Sub soil
Woodland (Non-Cropped)	0.30m
Woodland (Cropped)	0.30m
Scrub	0.15m
Grassland	0.30m

- Key:
- Base case earthworks (construction)
 - Additional earthworks to base case (post shaft construction)
 - Ponds area



Issue	Date	By	CHKD	App'd
10	12/07/17	KK	JB	CW
S73 18040				



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Client: Sirius Minerals Plc

Job Title: Woodsmith Mine Minehead

Woodsmith Mine Site Remediation Illustrative Earthworks Strategy Earthworks Bunds and Ponds

Scale: A1: 1:2000	Drawn By: Highways	Checked By: []
Drawn No: 253285	Issue No: Issue	Drawn Date: []
Drawn Date: []	Issue Date: []	Issue No: 10
Contract No: YP-P2-CX-032		Issue: 10

Minimum Earthworks Volumes

Area	Volume (m³)	Volume (m³)	Volume (m³)	Volume (m³)	Volume (m³)	Volume (m³)	Volume (m³)	Volume (m³)	Volume (m³)	Volume (m³)
Area A	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area B	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area C	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area D	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area E	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area F	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area G	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area H	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area I	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area J	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area K	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area L	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area M	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area N	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
Area O	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
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Area R	36,000	9,500	116,160	142,000	193,000	330,000	120,000	16,000	16,000	16,000
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Maximum Earthworks Volumes

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