



Our ref: DOC21/57636

Your ref: SSD 9505

Mandana Mazaheri
Principal Planning Officer
Planning and Assessment Group
Department of Planning, Industry and Environment
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Dear Mandana

McPhillamys Gold Project (Mine Site and Water Supply Pipeline) – Additional Information

Thank you for your email dated 29 January 2021 to the Biodiversity, Conservation and Science Directorate (BCS) inviting comments on the additional information provided in response to our review of the *McPhillamys Gold Project Response to government agency advice on Amendment Report and Submissions Report* for the McPhillamys Gold Project.

Please note that in addition to the additional information (dated 28 January 2021) provided to the Planning and Assessment Group (PAG), EMM Consulting made further amendments to the BAM-calculator and submitted an amended BAM Credit Summary Report for assessment ID 20215 to BCS on 2 February 2021. These amendments were made following discussions with BCS regarding two errors in the submitted BAM-calculator. These amendments have resulted in an ecosystem credit liability increase of 10 credits for both the pipeline options.

BCS have reviewed the additional information (dated 28 January 2021), the finalised BAM-calculator (finalised 2 February 2021) and the amended BAM Credit Summary Report for assessment ID 20215 against our comments provided to you on 21 December 2020 (DOC20/1023388). BCS is satisfied that our previous comments have been adequately addressed. Additionally, BCS is satisfied with the proposed staging of the project.

BCS accepts the following final credit obligations for the Mine Site and Pipeline Project stages;

Stage	Ecosystem Credits	Species Credits
Stage 1 - Pipeline Development – Southern Option	543	1,088
Stage 1 - Pipeline Development – Northern Option	550	970
Stage 2 - Mine Site	2,541	5,080

BCS notes that the preferred pipeline option will be chosen post consent and therefore the offset liability for both options will be included in the consent conditions. BCS recommends that the Southern Option and the Northern Option each have their own clear and separate set of conditions. We welcome the opportunity to assist PAG in drafting the relevant conditions.

The amended BAM Credit Summary Report for assessment ID 20215 is attached for your records.



If you require any further information regarding this matter, please contact Michelle Howarth, Senior Conservation Planning Officer, via michelle.howarth@environment.nsw.gov.au or (02) 6883 5335.

Yours sincerely

A handwritten signature in purple ink that reads 'Renee Shepherd'.

Renee Shepherd
Acting Senior Team Leader Planning North West
Biodiversity, Conservation and Science Directorate

2 February 2021

Attachment A: Amended BAM Credit Summary Report dated 2 February 2021

Proposal Details

Assessment Id	Proposal Name	BAM data last updated *
00020208/BAAS17013/20/00020215	McPhillamys Pipeline Hill End	21/12/2020
Assessor Name	Report Created	BAM Data version *
	02/02/2021	36
Assessor Number	BAM Case Status	Date Finalised
	Finalised	02/02/2021
Assessment Revision	Assessment Type	
0	Major Projects	

* Disclaimer: BAM data last updated may indicate either complete or partial update of the BAM calculator database. BAM calculator database may not be completely aligned with Bionet.

Ecosystem credits for plant communities types (PCT), ecological communities & threatened species habitat

Zone	Vegetation zone name	TEC name	Current Vegetation integrity score	Change in Vegetation integrity (loss / gain)	Area (ha)	BC Act Listing status	EPBC Act listing status	Species sensitivity to gain class (for BRW)	Biodiversity risk weighting	Potential SAI	Ecosystem credits
Broad-leaved Peppermint - Brittle Gum - Red Stringybark dry open forest on the South Eastern Highlands Bioregion											
1	727_Intact	Not a TEC	79	6.0	0.29			High Sensitivity to Potential Gain	1.75		1
2	727_Shrubl and	Not a TEC	44.1	3.1	0.46			High Sensitivity to Potential Gain	1.75		1
										Subtotal	2

Red Stringybark - Brittle Gum - Inland Scribbly Gum dry open forest of the tablelands, South Eastern Highlands Bioregion											
3	1093_DNG	Not a TEC	43.4	4.9	0.22			High Sensitivity to Potential Gain	1.75		1
4	1093_Fragments	Not a TEC	60.9	19.0	0.35			High Sensitivity to Potential Gain	1.75		3
5	1093_Intact	Not a TEC	77.1	16.3	0.95			High Sensitivity to Potential Gain	1.75		7
6	1093_Shrubland	Not a TEC	44	11.4	0.58			High Sensitivity to Potential Gain	1.75		3
									Subtotal		14
Snow Gum - Candle Bark woodland on broad valley flats of the tablelands and slopes, South Eastern Highlands Bioregion											
7	1191_Fragments	Werriwa Tablelands Cool Temperate Grassy Woodland in the South Eastern Highlands and South East Corner Bioregions	31.6	10.0	0.12	Critically Endangered Ecological Community	Not Listed	High Sensitivity to Potential Gain	2.50	TRUE	1
8	1191_Intact	Werriwa Tablelands Cool Temperate Grassy Woodland in the South Eastern Highlands and South East Corner Bioregions	51.3	10.6	0.6	Critically Endangered Ecological Community	Not Listed	High Sensitivity to Potential Gain	2.50	TRUE	4

BAM Credit Summary Report

9	1191_Spars e	Werriwa Tablelands Cool Temperate Grassy Woodland in the South Eastern Highlands and South East Corner Bioregions	42.9	40.1	0.32	Critically Endangered Ecological Community	Not Listed	High Sensitivity to Potential Gain	2.50	TRUE	8
										Subtotal	13
Snow Gum - Mountain Gum tussock grass-herb forest of the South Eastern Highlands Bioregion											
10	1197_DNG	Werriwa Tablelands Cool Temperate Grassy Woodland in the South Eastern Highlands and South East Corner Bioregions	20.4	2.6	0.16	Critically Endangered Ecological Community	Not Listed	High Sensitivity to Potential Gain	2.50	TRUE	1
11	1197_Intact	Werriwa Tablelands Cool Temperate Grassy Woodland in the South Eastern Highlands and South East Corner Bioregions	71.8	17.2	4.4	Critically Endangered Ecological Community	Not Listed	High Sensitivity to Potential Gain	2.50	TRUE	48

BAM Credit Summary Report

12	1197_Shrubland	Werriwa Tablelands Cool Temperate Grassy Woodland in the South Eastern Highlands and South East Corner Bioregions	28.2	7.5	0.35	Critically Endangered Ecological Community	Not Listed	High Sensitivity to Potential Gain	2.50	TRUE	2
13	1197_Sparse	Werriwa Tablelands Cool Temperate Grassy Woodland in the South Eastern Highlands and South East Corner Bioregions	26.8	7.0	0.28	Critically Endangered Ecological Community	Not Listed	High Sensitivity to Potential Gain	2.50	TRUE	1
										Subtotal	52
Yellow Box - Blakely's Red Gum grassy woodland on the tablelands, South Eastern Highlands Bioregion											
14	1330_DNG	White Box Yellow Box Blakely's Red Gum Woodland	17.4	7.3	1.8	Endangered Ecological Community	Critically Endangered	High Sensitivity to Potential Gain	2.00	TRUE	6
15	1330_Fragments	White Box Yellow Box Blakely's Red Gum Woodland	40.4	36.7	0.11	Endangered Ecological Community	Critically Endangered	High Sensitivity to Potential Gain	2.00	TRUE	2
16	1330_Intact	White Box Yellow Box Blakely's Red Gum Woodland	42.4	42.4	0.85	Endangered Ecological Community	Critically Endangered	High Sensitivity to Potential Gain	2.00	TRUE	18

BAM Credit Summary Report

17	1330_Shrubland	White Box Yellow Box Blakely's Red Gum Woodland	51.2	9.3	0.13	Endangered Ecological Community	Critically Endangered	High Sensitivity to Potential Gain	2.00	TRUE	1
18	1330_Sparse	White Box Yellow Box Blakely's Red Gum Woodland	46.5	46.5	0.21	Endangered Ecological Community	Critically Endangered	High Sensitivity to Potential Gain	2.00	TRUE	5
										Subtotal	32
										Total	113

Species credits for threatened species

Vegetation zone name	Habitat condition (Vegetation Integrity)	Change in habitat condition	Area (ha)/Count (no. individuals)	BC Act Listing status	EPBC Act listing status	Biodiversity risk weighting	Potential SAI	Species credits
Callocephalon fimbriatum / Gang-gang Cockatoo (Fauna)								
727_Intact	6.0	6.0	0.29	Vulnerable	Not Listed	2	False	1
727_Shrubland	3.1	3.1	0.12	Vulnerable	Not Listed	2	False	1
1197_Intact	17.2	17.2	1.2	Vulnerable	Not Listed	2	False	10
1197_Shrubland	7.5	7.5	0.04	Vulnerable	Not Listed	2	False	1
							Subtotal	13
Cercartetus nanus / Eastern Pygmy-possum (Fauna)								
727_Intact	6.0	6.0	0.29	Vulnerable	Not Listed	2	False	1
1093_Intact	16.3	16.3	0.91	Vulnerable	Not Listed	2	False	7
1093_Shrubland	11.4	11.4	0.03	Vulnerable	Not Listed	2	False	1
1191_Intact	10.6	10.6	0.6	Vulnerable	Not Listed	2	False	3
1191_Sparse	0.5	0.5	0.32	Vulnerable	Not Listed	2	False	1
							Subtotal	13

<i>Ninox strenua</i> / Powerful Owl (Fauna)								
727_Intact	6.0	6.0	0.16	Vulnerable	Not Listed	2	False	1
727_Shrubland	3.1	3.1	0.03	Vulnerable	Not Listed	2	False	1
1093_Intact	16.3	16.3	0.41	Vulnerable	Not Listed	2	False	3
1093_Shrubland	11.4	11.4	0.02	Vulnerable	Not Listed	2	False	1
1197_Intact	17.2	17.2	0.55	Vulnerable	Not Listed	2	False	5
1197_Shrubland	7.5	7.5	0.02	Vulnerable	Not Listed	2	False	1
							Subtotal	12
<i>Paralucia spinifera</i> / Purple Copper Butterfly, Bathurst Copper Butterfly (Fauna)								
1093_DNG	4.9	4.9	0.06	Endangered	Vulnerable	2	False	1
1093_Fragments	19.0	19.0	0.01	Endangered	Vulnerable	2	False	1
1093_Shrubland	11.4	11.4	0.05	Endangered	Vulnerable	2	False	1
1197_Intact	17.2	17.2	0.25	Endangered	Vulnerable	2	False	2
1330_DNG	7.3	7.3	0.05	Endangered	Vulnerable	2	False	1
1330_Intact	42.4	42.4	0.15	Endangered	Vulnerable	2	False	3
							Subtotal	9
<i>Petaurus norfolcensis</i> / Squirrel Glider (Fauna)								
1191_Intact	10.6	10.6	0.24	Vulnerable	Not Listed	2	False	1
1191_Sparse	0.5	0.5	0.06	Vulnerable	Not Listed	2	False	1
1197_Intact	17.2	17.2	3.8	Vulnerable	Not Listed	2	False	32
1197_Shrubland	7.5	7.5	0.02	Vulnerable	Not Listed	2	False	1
1330_Intact	42.4	42.4	0.74	Vulnerable	Not Listed	2	False	16
							Subtotal	51

BAM Credit Summary Report

<i>Phascogale tapoatafa / Brush-tailed Phascogale (Fauna)</i>								
1093_Intact	16.3	16.3	0.95	Vulnerable	Not Listed	2	False	8
							Subtotal	8
<i>Phascolarctos cinereus / Koala (Fauna)</i>								
727_Intact	6.0	6.0	0.29	Vulnerable	Vulnerable	2	False	1
1093_Intact	16.3	16.3	0.95	Vulnerable	Vulnerable	2	False	8
1191_Intact	10.6	10.6	0.6	Vulnerable	Vulnerable	2	False	3
1197_Intact	17.2	17.2	3.8	Vulnerable	Vulnerable	2	False	32
1330_Intact	42.4	42.4	0.47	Vulnerable	Vulnerable	2	False	10
							Subtotal	54
<i>Swainsona sericea / Silky Swainson-pea (Flora)</i>								
1191_Intact	10.6	10.6	0.6	Vulnerable	Not Listed	2	False	3
1330_Intact	42.4	42.4	0.85	Vulnerable	Not Listed	2	False	18
							Subtotal	21
<i>Tyto novaehollandiae / Masked Owl (Fauna)</i>								
727_Intact	6.0	6.0	0.16	Vulnerable	Not Listed	2	False	1
727_Shrubland	3.1	3.1	0.03	Vulnerable	Not Listed	2	False	1
1093_Intact	16.3	16.3	0.41	Vulnerable	Not Listed	2	False	3
1093_Shrubland	11.4	11.4	0.02	Vulnerable	Not Listed	2	False	1
1197_Intact	17.2	17.2	0.55	Vulnerable	Not Listed	2	False	5
1197_Shrubland	7.5	7.5	0.02	Vulnerable	Not Listed	2	False	1
							Subtotal	12

BAM Credit Summary Report

Veronica blakelyi / Veronica blakelyi (Flora)								
1197_Intact	17.2	17.2	4.4	Vulnerable	Not Listed	2	False	38
							Subtotal	38