



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 5272/3
Permit Holder:	Robe River Mining Co Pty Ltd
Duration of Permit:	16 November 2013 to 16 November 2028

The Permit Holder is authorised to clear native vegetation subject to the following conditions of this Permit.

PART I – CLEARING AUTHORISED

1. Purpose for which clearing may be done

Clearing for the purpose of construction and installation of utilities, mine and port support infrastructure and associated works.

2. Area of Clearing

The Permit Holder must not clear more than 150 hectares of native vegetation within the *specified area* hatched yellow on attached Plan 5272/3.

3. Period in which clearing is authorised

The Permit Holder shall not clear any native vegetation after 16 November 2023.

4. Application

This Permit allows the Permit Holder to authorise persons, including employees, contractors and agents of the Permit Holder, to clear native vegetation for the purposes of this Permit subject to compliance with the conditions of this Permit and approval from the Permit Holder.

PART II – MANAGEMENT CONDITIONS

5. Weed control

When undertaking any clearing or other activity pursuant to this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *weeds*:

- Clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- Ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- Restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

6. Flora management

Prior to undertaking any clearing authorised under this Permit:

- Where the report entitled 'Flora and Vegetation Assessment of the Cape Lambert Area, 2012', dated November 2012, identified potential habitat for *priority flora* within the *specified area*, the Permit Holder shall engage a *botanist* to inspect that area for the presence of *priority flora*.
- Where *priority flora* are identified in relation to condition 6(a) of this Permit, the Permit Holder shall ensure that:
 - no clearing of identified *priority flora* occurs, unless first approved by the CEO; and

- (ii) no clearing occurs within 10 metres of identified *priority flora*, unless first approved by the CEO.

7. Fauna management – *Lerista neviniae*

Where the report entitled 'Cape Lambert Terrestrial Fauna Assessment and Targeted Fauna Survey', dated November 2012, identified *Lerista neviniae habitat* within the *specified area*, the Permit Holder shall ensure that no clearing occurs within the identified *Lerista neviniae habitat*, unless first approved by the CEO.

8. Management plan – Marine Turtles

- (a) The Permit Holder must implement and adhere to the Management Plan entitled 'Cape Lambert Port B Development Marine Turtle Management Plan, April 2013 V2-5'.
- (b) If it is necessary to modify the Management Plan entitled 'Cape Lambert Port B Development Marine Turtle Management Plan, April 2013 V2-5', then the Permit Holder must provide that modified Management Plan to the CEO for the CEO's approval.
- (c) The modified Management Plan must not be implemented until approved by the CEO.
- (d) An approved modified Management Plan supersedes any previous Management Plan.

9. Fauna management - *Dasyurus hallucatus*

Prior to undertaking any clearing authorised under this Permit:

- (a) Where the report entitled 'Cape Lambert Terrestrial Fauna Assessment and Targeted Fauna Survey', dated November 2012, has identified potential habitat for northern quoll (*Dasyurus hallucatus*) within the *specified area*, the Permit Holder shall engage a *fauna specialist* to inspect that area for the presence of habitat on which it has a specific dependence.
- (b) Any habitat areas on which northern quoll (*Dasyurus hallucatus*) has a specific dependence, identified in accordance with condition 9(a), shall be inspected by a *fauna specialist* for the presence of northern quoll (*Dasyurus hallucatus*).
- (c) Where habitat areas on which northern quoll (*Dasyurus hallucatus*) has a specific dependence are identified in accordance with condition 9(a), the Permit Holder must:
 - (i) Avoid areas identified in accordance with condition 9(a); or
 - (ii) Where the areas identified in accordance with condition 9(a) cannot be avoided, the Permit Holder shall prepare, implement and adhere to a *Fauna Management Plan*, designed by a fauna specialist.
- (d) Where northern quoll (*Dasyurus hallucatus*) is identified in accordance with condition 9(b), the Permit Holder must prepare, implement and adhere to a *Fauna Management Plan*, designed by a fauna specialist.
- (e) The *Fauna Management Plan* required in accordance with conditions 9(c) and 9(d), must include the following:
 - (i) a plan for managing the *impacts*;
 - (ii) a plan for managing any fauna identified in accordance with condition 9(b);
 - (iii) a table setting out the Permit Holder's commitments to the *Fauna Management Plan* requirements; and
 - (iv) a program for monitoring compliance with the Permit Holder's commitments.
- (f) Once the Permit Holder has developed a *Fauna Management Plan*, the Permit Holder must provide that *Fauna Management Plan* to the CEO for the CEO's approval. The clearing to which the *Fauna Management Plan* relates and the implementation of the *Fauna Management Plan* shall not take place until the Permit Holder receives approval from the CEO.
- (g) If it is necessary to modify the *Fauna Management Plan* approved by the CEO, then the Permit Holder must provide that modified *Fauna Management Plan* to the CEO for the CEO's approval.

- (h) The modified *Fauna Management Plan* must not be implemented until approved by the CEO.
- (i) An approved modified *Fauna Management Plan* supersedes any previous *Fauna Management Plan*.

10. Revegetation and rehabilitation

The Permit Holder shall:

- (a) retain the vegetative material and topsoil removed by clearing authorised under this Permit and stockpile the vegetative material and topsoil in an area that has already been cleared.
- (b) At an optimal time within 12 months following the completion of works authorised under this Permit, *revegetate* and *rehabilitate* the area(s) that are no longer required for the purpose for which they were cleared under this Permit by:
 - (i) re-shaping the surface of the land so that it is consistent with the surrounding 5 metres of uncleared land; and
 - (ii) ripping the ground on the contour to remove soil compaction; and
 - (iii) laying the vegetative material and topsoil retained under condition 10(a) on the cleared area(s).
- (c) within 24 months of laying the vegetative material and topsoil on the cleared area in accordance with condition 10(b) of this Permit:
 - (i) engage an *environmental specialist* to determine the species composition, structure and density of the area *revegetated* and *rehabilitated*; and
 - (ii) where, in the opinion of an *environmental specialist*, the composition structure and density determined under condition 10(c)(i) of this Permit will not result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, *revegetate* the area by deliberately *planting* and/or *direct seeding* native vegetation that will result in a similar species composition, structure and density of native vegetation to pre-clearing vegetation types in that area and ensuring only *local provenance* seeds and propagating material are used.
- (d) Where additional *planting* or *direct seeding* of native vegetation is undertaken in accordance with condition 10(c)(ii) of this permit, the Permit Holder shall repeat condition 10(c)(i) and 10(c)(ii) within 24 months of undertaking the additional *planting* or *direct seeding* of native vegetation.
- (e) Where a determination by an *environmental specialist* that the composition, structure and density within areas *revegetated* and *rehabilitated* will result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, as determined in condition 10(c)(i) and (ii) of this permit, that determination shall be submitted for the CEO's consideration. If the CEO does not agree with the determination made under condition 10(c)(ii), the CEO may require the Permit Holder to undertake additional *planting* and *direct seeding* in accordance with the requirements under condition 10(c)(ii).

PART III – MONITORING, RECORD KEEPING AND REPORTING

11. Records must be kept

The Permit Holder must maintain the following records for activities done pursuant to this Permit:

- (a) In relation to the clearing of native vegetation authorised under this Permit:
 - (i) The species composition, structure and density of the cleared area;
 - (ii) The location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
 - (iii) The dates on which clearing was done; and
 - (iv) The size of the area cleared (in hectares).
- (b) In relation to flora management pursuant to condition 6 of this Permit:
 - (i) A copy of the *botanist's* flora survey report.

- (ii) The location of each *priority flora* species cleared recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
 - (iii) The species name of each *priority flora* cleared;
 - (iv) The date(s) that *priority flora* was cleared; and
 - (v) The estimated number *priority flora* plants that were cleared at each location.
- (c) In relation to fauna management pursuant to condition 9 of this Permit:
- (a) A description and results of the fauna management activities undertaken in accordance with the *Fauna Management Plan* approved by the CEO; and
 - (i) A copy of the *fauna specialist's* survey report.
- (d) In relation to the *revegetation* and *rehabilitation* of areas pursuant to condition 10 of this Permit:
- (i) the location of any areas *revegetated* and *rehabilitated*, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
 - (ii) a description of the *revegetation* and *rehabilitation* activities undertaken;
 - (iii) the size of the area *revegetated* and *rehabilitated* (in hectares);
 - (iv) the species composition, structure and density of *revegetation* and *rehabilitation*, and
 - (v) a copy of the environmental specialist's report.

12. Reporting

- (a) The Permit Holder must provide to the CEO on or before 30 June of each year, a written report:
 - (i) of records required under condition 11 of this Permit; and
 - (ii) concerning activities done by the Permit Holder under this Permit between 1 January to 31 December of the preceding calendar year.
- (b) If no clearing authorised under this Permit was undertaken between 1 January to 31 December of the preceding calendar year, a written report confirming that no clearing under this permit has been carried out, must be provided to the CEO on or before 30 June of each year.
- (c) Prior to 16 August 2028, the Permit Holder must provide to the CEO a written report of records required under condition 11 of this Permit where these records have not already been provided under condition 12(a) of this Permit.

13. Interpretation

The following rules of interpretation apply to this Permit:

- (a) A reference to any *written law* includes a reference to that *written law* as amended, repealed or replaced from time to time; and
- (b) If a word or phrase is defined, other parts of speech and grammatical forms of that word or phrase have corresponding meanings.

14. Severance

It is the intent of these conditions that they shall operate so that, if a condition or part of a condition is beyond the CEO's power to impose, or is otherwise ultra vires or invalid, that condition or part of a condition shall be severed and the remainder of these conditions shall nevertheless be valid to the extent that they are within the CEO's power to impose and are not otherwise ultra vires or invalid.

15. Inconsistency

- (a) The *Environmental Protection Act 1986* prevails to the extent of any inconsistency between its provisions and the conditions of this Permit.
- (b) Subject to condition 15(a), this Permit prevails to the extent of any inconsistency between its conditions, and the provisions of any other document referred to in this Permit.

DEFINITIONS

The following meanings are given to terms used in this Permit:

botanist: means a person who holds a tertiary qualification in environmental science or equivalent, and has a minimum of 2 years work experience in identification and surveys of flora native to the bioregion being inspected or surveyed, or who is approved by the CEO as a suitable botanist for the bioregion;

coordinate means a Map Grid of Australia (Geocentric Datum of Australia 1994) coordinate for zone 50;

direct seeding means a method of re-establishing vegetation through the establishment of a seed bed and the introduction of seeds of the desired plant species;

environmentally sensitive area means an area that is the subject of a declaration that is in force under section 51B of the EP Act;

environmental specialist means a person who is engaged by the Permit Holder for the purpose of providing environmental advice, who holds a tertiary qualification in environmental science or equivalent, and has experience relevant to the type of environmental advice that an environmental specialist is required to provide under this Permit;

EP Act means the *Environmental Protection Act 1986*;

Fauna Management Plan means a plan developed by the Permit Holder for the management of fauna at the site in accordance with condition 9 of this Permit;

fauna specialist: means a person who holds a tertiary qualification specializing in environmental science or equivalent, and has a minimum of 2 years work experience in fauna identification and surveys of fauna native to the region being inspected or surveyed, or who is approved by the CEO as a suitable fauna specialist for the bioregion, and who holds a valid fauna licence issued under the *Wildlife Conservation Act 1950*;

fill means material used to increase the ground level, or fill a hollow;

impacts means any impact of clearing on environmental values;

Lerista neviniae habitat means coastal dune habitat with pale sands vegetated with open hummock grasslands, with acacia species;

local provenance means native vegetation seeds and propagating material from natural sources within 200 kilometres and the same Interim Biogeographic Regionalisation for Australia (IBRA) subregion of the area cleared;

mulch means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation;

planting means the re-establishment of vegetation by creating favourable soil conditions and planting seedlings of the desired species;

priority flora means those plant taxa described as priority flora classes 1, 2, 3, 4 or 5 in the *Department of Environment and Conservation's Threatened and Priority Flora List for Western Australia* (as amended);

regenerate/ed/ion means re-establishment of vegetation from in situ seed banks and propagating material (such as lignotubers, bulbs, rhizomes) contained either within the topsoil or seed-bearing mulch;

rehabilitate/ed/ion means actively managing an area containing native vegetation in order to improve the ecological function of that area;

revegetate/ed/ion means the re-establishment of a cover of *local provenance* native vegetation in an area using methods such as natural *regeneration*, *direct seeding* and/or *planting*, so that the species composition, structure and density is similar to pre-clearing vegetation types in that area;

site preparation means management of existing site topsoil and preparation of the finished soil surface, for example by ripping or tilling the soil surface and respreading site topsoil and chipped native vegetation;

specified area means the area bounded by a line joining the *coordinates* listed in Schedule 1 of this Permit consecutively, then directly to the point of commencement;

weed/s means any plant -

- (a) that is a declared pest under section 22 of the *Biosecurity and Agriculture Management Act 2007*; or
- (b) published in a Department of Parks and Wildlife Regional Weed Rankings Summary, regardless of ranking; or
- (c) not indigenous to the area concerned.

written law has the same meaning as it is given in section 5 of the *Interpretation Act 1984*.



M Warnock
SENIOR MANAGER
CLEARING REGULATION

*Officer delegated under Section 20
of the Environmental Protection Act 1986*

12 March 2015

SCHEDULE 1
Coordinates of the specified area

Point	Easting	Northing
1	519237.4	7722947.28
2	519207.47	7722930.38
3	519168.05	7722899.55
4	519037.87	7722781.39
5	519023.29	7722798.01
6	519117.07	7722884.11
7	519002.38	7723016.82
8	518820.78	7722945.98
9	518494.46	7722818.73
10	518168.05	7722691.37
11	518118.16	7722712.68
12	518064.11	7722743.28
13	518045.89	7722758.9
14	518027.97	7722767.77
15	518015.38	7722784.61
16	518018.22	7722804.64
17	518042.95	7722834.71
18	518058.71	7722862.91
19	518084.7	7722905.06
20	518086.91	7722923.53
21	518081.84	7722957.96
22	518074.87	7722966.26
23	518066.54	7722970.36
24	518033.29	7722969.4
25	518024.85	7722965.2
26	518011.69	7722946.19
27	518003.46	7722939.34
28	517998.77	7722947.42
29	518009.86	7722976.07
30	518007.57	7722985.04
31	517993.31	7723001.99
32	517983.93	7723002.99
33	517966.52	7722998.03
34	517945.86	7722964.85
35	517938.76	7722955.79
36	517871.98	7722870.86
37	517868.43	7722866.32
38	517844.33	7722835.59
39	517826.48	7722805.51
40	517796.96	7722786.28
41	517795.18	7722776.43
42	517798.7	7722757.95
43	517789.91	7722718.99

Point	Easting	Northing
44	517791.15	7722709.59
45	517817.83	7722709.46
46	517828.25	7722709.22
47	517828.75	7722691.96
48	517809.76	7722665.74
49	517808.19	7722656.57
50	517807.04	7722656.79
51	517790.37	7722659.79
52	517783.92	7722668.2
53	517774.14	7722686.04
54	517765.81	7722689.59
55	517757.67	7722683.84
56	517757.13	7722657.62
57	517767.31	7722631.92
58	517773.03	7722613.66
59	517714.18	7722540.57
60	517710.52	7722535.26
61	517707.7	7722531.06
62	517691.71	7722485.7
63	517669.06	7722450.98
64	517648.71	7722421.67
65	517608.56	7722395.59
66	517580.11	7722385.55
67	517504.3	7722338.49
68	517485.95	7722320.91
69	517458.09	7722287.74
70	517433.14	7722248.7
71	517428.53	7722222.15
72	517417.34	7722186.07
73	517397.18	7722138.73
74	517393.11	7722129.66
75	517348.96	7722055.67
76	517340.8	7722027.89
77	517294.74	7721927.02
78	517275.74	7721896.27
79	517252.65	7721827.91
80	517227.69	7721772.82
81	517211.91	7721724.91
82	517187.08	7721692.4
83	517127.11	7721638.78
84	517119.07	7721633.48
85	517012.51	7721567.41
86	516920.04	7721513.83

Point	Easting	Northing
87	516898.35	7721500.01
88	516820.37	7721463.13
89	516724.88	7721423.28
90	516633.15	7721384.97
91	516615.43	7721380.11
92	516599.27	7721370.83
93	516571.62	7721327.59
94	516563.49	7721319.85
95	516527.5	7721285.03
96	516467.45	7721244.57
97	516426.58	7721223.15
98	516403.32	7721199.59
99	516377.67	7721187.01
100	516371.51	7721178.38
101	516366.49	7721151.71
102	516360.54	7721141.65
103	516320.48	7721093.32
104	516287.3	7721046.43
105	516239.85	7721006.08
106	516211.79	7720970.25
107	516175.49	7720933.66
108	516166.51	7720915.07
109	516138.65	7720869.95
110	516093.82	7720835.69
111	515998.93	7720767.82
112	515906.04	7720712.46
113	515819.63	7720670.05
114	515786.97	7720659.52
115	515786.99	7720659.5
116	515722.15	7720533
117	515645.87	7720426.49
118	515644.56	7720424.39
119	515640.51	7720384.51
120	515630.55	7720352.05
121	515625.36	7720314.92
122	515593.44	7720255.94
123	515550.94	7720217.65
124	515544.02	7720211.57
125	515500.81	7720169.49
126	515517.1	7720157.15
127	515539.99	7720094.21
128	515541.73	7720066.33
129	515536.35	7719985.4
130	515508.83	7719921.01
131	515488.25	7719890.79
132	515436.61	7719832.41
133	515383.6	7719793.83

Point	Easting	Northing
134	515346.46	7719765.88
135	515249.98	7719715.6
136	515178.78	7719753.77
137	515094.65	7719652.28
138	515053.01	7719639.4
139	514994.11	7719595.31
140	514967.16	7719578.63
141	514944.71	7719515.73
142	514871.42	7719501.36
143	514828.59	7719500.55
144	514818	7719465.49
145	514796.64	7719436.84
146	514748.01	7719389.27
147	514756.32	7719359.9
148	514759.64	7719318.87
149	514759.69	7719307.98
150	514762.88	7719234.13
151	514733.72	7719183.15
152	514699.38	7719141.68
153	514638.43	7719098.09
154	514607.8	7719083.99
155	514529.34	7719055
156	514515.77	7719054.71
157	514524.77	7719040.3
158	514528	7718991.18
159	514520.45	7718955.65
160	514531.01	7718947
161	514559.56	7718901.53
162	514581.51	7718874.29
163	514624.75	7718796.83
164	514640.84	7718657.74
165	514617.65	7718652.77
166	514601.28	7718612.35
167	514566.17	7718531.5
168	514604.02	7718524.23
169	514636.49	7718476.87
170	514670.12	7718450.71
171	514714.6	7718410.42
172	514713.56	7718289.85
173	514704.28	7718241.68
174	514689.3	7718218.15
175	514633.12	7718116.37
176	514605.37	7718069.54
177	514552.57	7718008.83
178	514510.12	7717958.53
179	514442.56	7717907.84
180	514416.84	7717889.37

Point	Easting	Northing
181	514374.69	7717868.13
182	514369.66	7717867.81
183	514362.39	7717836.28
184	514324.69	7717780.99
185	514292.51	7717725.05
186	514236.57	7717675.9
187	514234.22	7717674.08
188	514206.44	7717641.73
189	514195.99	7717639.36
190	514175.99	7717608.19
191	514178.21	7717491.11
192	514172.09	7717475.4
193	514165.02	7717451.28
194	514163.54	7717442.75
195	514161.69	7717432.05
196	514161.44	7717430.64
197	514161.56	7717428.05
198	514181.39	7717404.41
199	514191.02	7717342.96
200	514187.36	7717307.43
201	514198.21	7717267.6
202	514192.29	7717235.44
203	514208.31	7717164.29
204	514205.38	7717155.89
205	514205.42	7717155.89
206	514219.34	7717103.46
207	514213.63	7717099.65
208	514208.5	7717093.64
209	514205.28	7717085.88
210	514206.59	7717077.08
211	514210.11	7717071.66
212	514201.03	7717063.61
213	514183.74	7717051.16
214	514169.68	7717027.39
215	514163.73	7717017.33
216	514155.21	7717002.95
217	514149.68	7716993.61
218	514134.05	7716967.2
219	514106.97	7716914.25
220	514088.2	7716879.31
221	514072.1	7716852.42
222	514053.94	7716827.51
223	514031.83	7716800.97
224	513987.54	7716738.46
225	513972.08	7716713.16
226	513959.66	7716687.62
227	513933.42	7716623.27

Point	Easting	Northing
228	513936.29	7716615.64
229	513933.42	7716580.28
230	513916.23	7716541.11
231	513887.35	7716521.24
232	513844.57	7716469.47
233	513811.14	7716429.33
234	513807.32	7716396.85
235	513784.39	7716366.29
236	513767.03	7716353.44
237	513748.02	7716318.12
238	513736.24	7716290.04
239	513719.94	7716264.69
240	513670.69	7716215.19
241	513646.07	7716184.31
242	513627.82	7716167.8
243	513602.21	7716140.62
244	513591.09	7716128.53
245	513579.59	7716116.03
246	513552.2	7716093.77
247	513452.09	7716047.45
248	513443.58	7716047.09
249	513428.64	7716046.47
250	513418.49	7716044.7
251	513401.66	7716042.67
252	513328.52	7716024.1
253	513314.01	7716018.01
254	513313.43	7716012.49
255	513301.54	7716004.66
256	513240.3	7715977.09
257	513168.65	7715951.1
258	513120.56	7715928.18
259	513121.08	7715527.71
260	512506.1	7715558.61
261	512506.23	7715738.62
262	512297.8	7715738.28
263	512252.55	7715705.49
264	512249.49	7715650
265	512180.91	7715653.58
266	512139.8	7715623.8
267	512139.55	7715605.73
268	512246.68	7715599.95
269	512236.38	7715413.85
270	512027.92	7715374.95
271	511582.23	7715166.46
272	511492.6	7715154.8
273	511293.45	7715128.92
274	511004.67	7715091.39

Point	Easting	Northing
275	511004.56	7714801.17
276	511004.52	7714691.51
277	511004.56	7714691.46
278	511395.79	7714709.9
279	511787.12	7714728.45
280	511818.94	7714660.47
281	512108.6	7714796.07
282	512076.77	7714863.92
283	512314.03	7714974.98
284	512175.71	7715270.67
285	512241.87	7715301.61
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287	512745.14	7715248.56
288	513312.96	7714625.5
289	513339.5	7714604.46
290	513395.28	7714555.72
291	513459.91	7714490.26
292	513458.97	7714471.78
293	513697.49	7714222.91
294	513693.84	7714215.83
295	513687.1	7714129.63
296	513713.91	7714050.37
297	513745.84	7713995.23
298	513789.49	7714010.25
299	513766.61	7714053.21
300	513749.52	7714174.84
301	514068.54	7714288.46
302	514097.66	7714238.85
303	514135.6	7714262.18
304	514467.14	7714278.38
305	514507.24	7714286.87
306	514529.95	7714291.72
307	514552.56	7714296.46
308	514575.16	7714301.31
309	514597.87	7714306.16
310	514631.73	7714313.32
311	514654.44	7714318.17
312	514677.05	7714322.91
313	514694.34	7714326.66
314	514700.49	7714327.87
315	514714.55	7714330.85
316	514763.75	7714366.77
317	514796.56	7714373.82
318	514819.37	7714378.67
319	514842.29	7714383.53
320	514865.11	7714388.38
321	514887.92	7714393.23

Point	Easting	Northing
322	514910.84	7714398.08
323	514926.68	7714401.49
324	514945.02	7714409.67
325	515008.84	7714266.4
326	515063.2	7714144.29
327	515477.79	7714084.15
328	515509.53	7714170.44
329	515519.13	7714196.44
330	515562.57	7714314.26
331	515700.09	7714687.64
332	515837.62	7715060.91
333	516040.07	7715465.66
334	516242.53	7715870.29
335	516382.21	7715966.99
336	516642.18	7716146.9
337	516902.04	7716326.82
338	517070.68	7716727.82
339	517095.22	7716786.23
340	517148.65	7716881.79
341	517031.58	7716897.74
342	517027.82	7716886.67
343	517019.69	7716881.15
344	516999.16	7716882.5
345	516967.15	7716913.68
346	516942.62	7716900.67
347	516942.51	7716887.65
348	516921.88	7716889.66
349	516920.94	7716887.45
350	516919.09	7716893.02
351	516856.56	7716968.22
352	516818.64	7716994.68
353	516809.28	7717004.09
354	516809.92	7717022.13
355	516811.1	7717022.9
356	516753.7	7717091.93
357	516757.87	7717236.09
358	516769.01	7717621.66
359	516780.15	7718007.23
360	516791.3	7718392.8
361	516799.11	7718463.48
362	516818.24	7718531.96
363	516985.69	7718985.66
364	517001.04	7719033.42
365	517030.09	7719122.63
366	517043.27	7719145.25
367	517066.43	7719171.1
368	517085.07	7719183.48

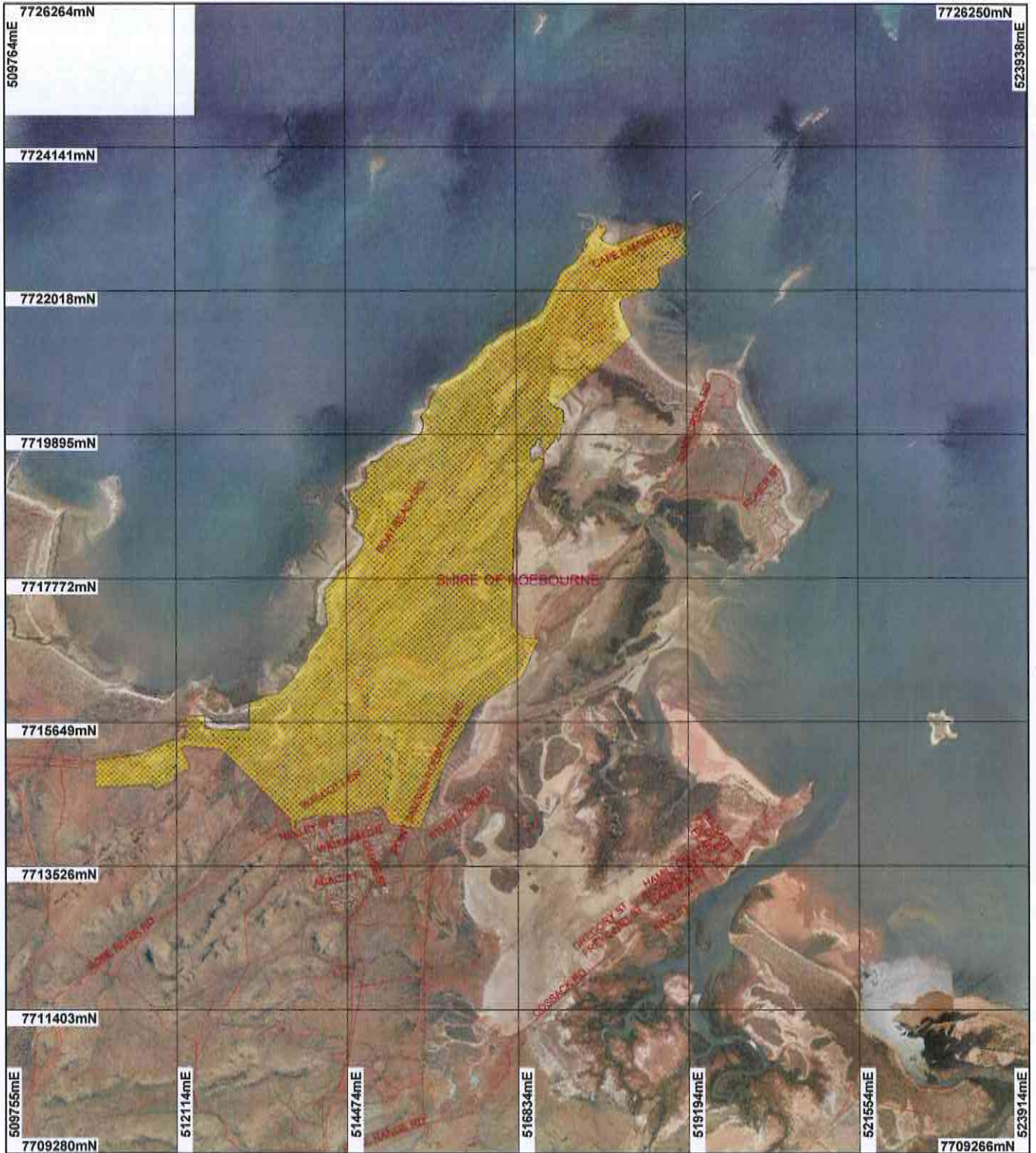
Point	Easting	Northing
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370	517129.6	7719206.77
371	517131.77	7719217.01
372	517127.07	7719233.7
373	517109.26	7719260.79
374	517105	7719277.8
375	517106.89	7719287.74
376	517112.87	7719296.27
377	517129.99	7719309.53
378	517154.47	7719337.04
379	517167.13	7719362.66
380	517190.62	7719422.99
381	517197.33	7719460.94
382	517204.26	7719488.39
383	517215.09	7719508.72
384	517215.11	7719536.32
385	517206.99	7719544.4
386	517168.48	7719542.4
387	517151.69	7719556.3
388	517143.35	7719553.57
389	517125.86	7719535.96
390	517121.39	7719527.45
391	517109.35	7719508.01
392	517091.04	7719501.18
393	517071.37	7719487.42
394	517061.93	7719487.07
395	517053.3	7719490.94
396	517058.8	7719507.7
397	517058.18	7719515.94
398	517052.32	7719523.91
399	517044.02	7719525.99
400	517038.89	7719534.44
401	517029.93	7719561.1
402	517026.8	7719589.24
403	517024.21	7719670.18
404	517028.01	7719689.17
405	517043.47	7719710.19
406	517073.25	7719728.06
407	517100.22	7719750.98
408	517103.03	7719767.23
409	517104.39	7719788.72
410	517117.07	7719820.79
411	517134.75	7719828.96
412	517161.6	7719829.07
413	517171.51	7719828.22
414	517180.22	7719820.31
415	517182.63	7719791.55

Point	Easting	Northing
416	517163.18	7719760.55
417	517161.14	7719750.15
418	517154.32	7719739.06
419	517150.45	7719730.43
420	517154.39	7719721.66
421	517180.96	7719720.57
422	517212.47	7719698.72
423	517213.56	7719682.25
424	517214.31	7719639.51
425	517217.92	7719631.48
426	517226.97	7719629.12
427	517235.56	7719634.4
428	517246.15	7719651.58
429	517251.46	7719670.29
430	517266.06	7719696.69
431	517308.82	7719746.79
432	517358.21	7719802.57
433	517367.97	7719845.23
434	517367.42	7719864.43
435	517373.92	7719876.4
436	517394.61	7719869.79
437	517401.1	7719824.77
438	517402.35	7719815.05
439	517409.9	7719805.3
440	517418.4	7719807.89
441	517444.85	7719848.79
442	517449.87	7719880.99
443	517448.71	7719951.17
444	517451.6	7719970.58
445	517457.9	7719992.16
446	517474.13	7720019.8
447	517514.68	7720067.45
448	517522.91	7720075.57
449	517525.59	7720083.73
450	517516.5	7720088.04
451	517489.27	7720091.82
452	517487.9	7720128.7
453	517490.19	7720227.45
454	517486.05	7720246.28
455	517472.55	7720267.88
456	517462.46	7720276.97
457	517426.55	7720293.34
458	517416.56	7720290.88
459	517394.77	7720285.31
460	517385.32	7720285.86
461	517355.84	7720310.9
462	517353.11	7720314.25

Point	Easting	Northing
463	517353.12	7720314.3
464	517461.79	7720418.88
465	517466.06	7720417.55
466	517507.26	7720457.45
467	517504.97	7720460.33
468	517572.03	7720525.01
469	517574.01	7720522.02
470	517605.72	7720552.75
471	517605.3	7720553.52
472	517603.85	7720555.52
473	517808.17	7720752.18
474	518012.49	7720948.73
475	518012.49	7720948.62
476	518012.28	7720946.19
477	518045.03	7720977.92
478	518045.04	7720980.02
479	518089.16	7721022.47
480	518089.57	7721021.03
481	518143.5	7721073.21
482	518143.18	7721074.54
483	518183.35	7721113.23
484	518184.91	7721113.23
485	518440.35	7721360.52
486	518431.73	7721377.9
487	518422.99	7721395.28
488	518414.36	7721412.67
489	518396.27	7721448.99
490	518377.36	7721496.93
491	518343.14	7721557.06
492	518342.12	7721575.66
493	518333.07	7721584.62
494	518321.63	7721611.09
495	518314.79	7721640.53

Point	Easting	Northing
496	518311.07	7721675.29
497	518291.72	7721704.08
498	518284.15	7721731.86
499	518275.02	7721773.05
500	518272.79	7721829.27
501	518272.58	7721837.79
502	518272.51	7721861.58
503	518665.15	7722060.8
504	518677.65	7722052.38
505	518701.09	7722044.93
506	518709.32	7722044.93
507	518748.39	7722046.54
508	518769.15	7722060.58
509	518778.01	7722070.97
510	518785.74	7722083.02
511	518799.73	7722105.14
512	518818.73	7722135.55
513	518824.36	7722141.63
514	518826.47	7722164.88
515	518822.02	7722189.89
516	518809.85	7722208.16
517	518807.29	7722250.88
518	518801.28	7722278.11
519	518797.89	7722320.95
520	518791.44	7722331.8
521	519012.9	7722448.75
522	519234.36	7722565.7
523	519175.41	7722682.74
524	519143.35	7722798.65
525	519196.56	7722867.97
526	519224.86	7722909.34
527	519233.32	7722928.02
528	519237.4	7722947.28

Plan 5272/3



LEGEND

- Road Centrelines
- Cadastre
- Local Government Authorities
- Clearing Instruments
- Areas Approved to Clear

Christmas Island 60cm Orthomosaic - Landgate 2006

Roebourne 50cm Orthomosaic - Landgate 2007



Scale 1:78090
(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

M Warnock Date 12/3/15

M Warnock
Officer with delegated authority under Section 20 of the Environmental Protection Act 1986

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



* Project Data. This data has not been quality assured. Please contact map author for details.



1. Application details

1.1. Permit application details

Permit application No.: 5272/3
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Robe River Mining Co Pty Ltd

1.3. Property details

Property:

LOT 280 ON PLAN 217843 (ANTONYMYRE 6714)
PART LOT 265 ON PLAN 220920 (MOUNT ANKETELL 6714)
LOT 117 ON PLAN 183809 (ANTONYMYRE 6714)
LOT 72 ON PLAN 217843 (ANTONYMYRE 6714)
UNALLOCATED CROWN LAND (WICKHAM 6720)
UNALLOCATED CROWN LAND (WICKHAM 6720)
UNALLOCATED CROWN LAND (WICKHAM 6720)
LOT 300 ON PLAN 216420 (WICKHAM 6720)
UNALLOCATED CROWN LAND (WICKHAM 6720)
LOT 542 ON PLAN 43130 (WICKHAM 6720)
UNALLOCATED CROWN LAND (WICKHAM 6720)
PART LOT 63 ON PLAN 54397 (Lot No. 63 CAPE LAMBERT POINT SAMSON 6720)
LOT 64 ON PLAN 57724 (Lot No. 64 CAPE LAMBERT WICKHAM 6720)
UNALLOCATED CROWN LAND (WICKHAM 6720)
LOT 775 ON PLAN 31274 (WICKHAM 6720)
LOT 776 ON PLAN 31274 (WICKHAM 6720)
LOT 392 ON PLAN 217328 (WICKHAM 6720)
LOT 750 ON PLAN 219430 (WICKHAM 6720)
LOT 771 ON PLAN 35754 (WICKHAM 6720)
LOT 772 ON PLAN 35754 (WICKHAM 6720)
LOT 797 ON PLAN 31274 (WICKHAM 6720)
UNALLOCATED CROWN LAND (WICKHAM 6720)
LOT 771 ON PLAN 35754 (WICKHAM 6720)
LOT 798 ON PLAN 31274 (WICKHAM 6720)
LOT 799 ON PLAN 31274 (WICKHAM 6720)
LOT 796 ON PLAN 31274 (WICKHAM 6720)
LOT 112 ON PLAN 213009 (Lot No. 112 POINT SAMSON-ROEBOURNE WICKHAM 6720)
LOT 111 ON PLAN 213009 (Lot No. 111 POINT SAMSON-ROEBOURNE WICKHAM 6720)
ROAD RESERVE (WICKHAM 6720)
LOT 792 ON PLAN 31274 (WICKHAM 6720)
LOT 793 ON PLAN 31274 (WICKHAM 6720)
UNALLOCATED CROWN LAND (WICKHAM 6720)
LOT 794 ON PLAN 31274 (WICKHAM 6720)
UNALLOCATED CROWN LAND (WICKHAM 6720)
UNALLOCATED CROWN LAND (WICKHAM 6720)
UNALLOCATED CROWN LAND (WICKHAM 6720)
ROAD RESERVE (WICKHAM 6720)
LOT 751 ON PLAN 193052 (WICKHAM 6720)
UNALLOCATED CROWN LAND (WICKHAM 6720)
LOT 283 ON PLAN 183769 (Lot No. 283 POINT SAMSON-ROEBOURNE WICKHAM 6720)
LOT 791 ON PLAN 31274 (WICKHAM 6720)
LOT 301 ON PLAN 47466 (WICKHAM 6720)
LOT 8 ON PLAN 211961 (House No. 14 WILSON WICKHAM 6720)
LOT 6 ON PLAN 211961 (House No. 12 WILSON WICKHAM 6720)
LOT 300 ON PLAN 47466 (WICKHAM 6720)

LOT 11 ON PLAN 211961 (House No. 11 WILSON WICKHAM 6720)
 LOT 12 ON PLAN 211961 (House No. 9 WILSON WICKHAM 6720)
 ROAD RESERVE (WICKHAM 6720)
 LOT 3 ON PLAN 211961 (House No. 6 WILSON WICKHAM 6720)
 LOT 1000 ON PLAN 44078 (House No. 8 WILSON WICKHAM 6720)
 LOT 2 ON PLAN 211961 (House No. 4 WILSON WICKHAM 6720)
 LOT 1 ON PLAN 211961 (House No. 2 WILSON WICKHAM 6720)
 LOT 13 ON PLAN 211961 (House No. 7 WILSON WICKHAM 6720)
 LOT 21 ON PLAN 211961 (House No. 10 ROBERTS WICKHAM 6720)
 LOT 14 ON PLAN 211961 (House No. 5 WILSON WICKHAM 6720)
 LOT 20 ON PLAN 211961 (House No. 8 ROBERTS WICKHAM 6720)
 LOT 15 ON PLAN 211961 (House No. 3 WILSON WICKHAM 6720)
 LOT 19 ON PLAN 211961 (House No. 6 ROBERTS WICKHAM 6720)
 LOT 16 ON PLAN 211961 (House No. 1 WILSON WICKHAM 6720)
 LOT 18 ON PLAN 211961 (House No. 4 ROBERTS WICKHAM 6720)
 LOT 17 ON PLAN 211961 (House No. 2 ROBERTS WICKHAM 6720)
 LOT 23 ON PLAN 211961 (House No. 14 ROBERTS WICKHAM 6720)
 LOT 1001 ON PLAN 40154 (House No. 13 WILSON WICKHAM 6720)
 LOT 22 ON PLAN 211961 (House No. 12 ROBERTS WICKHAM 6720)
 LOT 43 ON PLAN 211961 (House No. 18 PARKER WICKHAM 6720)
 LOT 27 ON PLAN 211961 (House No. 15 ROBERTS WICKHAM 6720)
 LOT 42 ON PLAN 211961 (House No. 16 PARKER WICKHAM 6720)
 LOT 28 ON PLAN 211961 (House No. 13 ROBERTS WICKHAM 6720)
 LOT 26 ON PLAN 211961 (House No. 17 ROBERTS WICKHAM 6720)
 LOT 41 ON PLAN 211961 (House No. 14 PARKER WICKHAM 6720)
 LOT 30 ON PLAN 211961 (House No. 9 ROBERTS WICKHAM 6720)
 LOT 40 ON PLAN 211961 (House No. 12 PARKER WICKHAM 6720)
 LOT 39 ON PLAN 211961 (House No. 10 PARKER WICKHAM 6720)
 LOT 31 ON PLAN 211961 (House No. 7 ROBERTS WICKHAM 6720)
 LOT 32 ON PLAN 211961 (House No. 5 ROBERTS WICKHAM 6720)
 LOT 38 ON PLAN 211961 (House No. 8 PARKER WICKHAM 6720)
 LOT 29 ON PLAN 211961 (House No. 11 ROBERTS WICKHAM 6720)
 LOT 36 ON PLAN 211961 (House No. 4 PARKER WICKHAM 6720)
 LOT 34 ON PLAN 211961 (House No. 1 ROBERTS WICKHAM 6720)
 LOT 35 ON PLAN 211961 (House No. 2 PARKER WICKHAM 6720)
 LOT 37 ON PLAN 211961 (House No. 6 PARKER WICKHAM 6720)
 LOT 33 ON PLAN 211961 (House No. 3 ROBERTS WICKHAM 6720)
 LOT 44 ON PLAN 211961 (House No. 17 PARKER WICKHAM 6720)
 LOT 45 ON PLAN 211961 (House No. 15 PARKER WICKHAM 6720)
 LOT 46 ON PLAN 211961 (House No. 13 PARKER WICKHAM 6720)
 LOT 47 ON PLAN 211961 (House No. 11 PARKER WICKHAM 6720)
 LOT 48 ON PLAN 211961 (House No. 9 PARKER WICKHAM 6720)
 LOT 49 ON PLAN 211961 (House No. 7 PARKER WICKHAM 6720)
 LOT 50 ON PLAN 211961 (House No. 5 PARKER WICKHAM 6720)
 LOT 51 ON PLAN 211961 (House No. 3 PARKER WICKHAM 6720)
 LOT 52 ON PLAN 211961 (House No. 1 PARKER WICKHAM 6720)
 LOT 706 ON PLAN 31274 (WICKHAM 6720)
 LOT 707 ON PLAN 31274 (WICKHAM 6720)
 LOT 392 ON PLAN 217328 (WICKHAM 6720)
 LOT 500 ON PLAN 63022 (WICKHAM 6720)
 LOT 7900 ON PLAN 71098 (DAMPIER ARCHIPELAGO 6713)
 UNALLOCATED CROWN LAND (WICKHAM 6720)
 LOT 65 ON PLAN 241547 (POINT SAMSON 6720)
 LOT 64 ON PLAN 57724 (Lot No. 64 CAPE LAMBERT WICKHAM 6720)
 PART LOT 63 ON PLAN 54397 (Lot No. 63 CAPE LAMBERT POINT SAMSON 6720)
 City of Karratha

Local Government Area:

Colloquial name:

1.4. Application

Clearing Area (ha)
150

No. Trees

Method of Clearing
Mechanical Removal

For the purpose of:
Mineral Production

1.5. Decision on application

Decision on Permit Application: Grant

Decision Date: 12 March 2015

2. Site Information

2.1. Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description	Clearing Description	Vegetation Condition	Comment
<p>The majority of the application area is mapped as Beard Vegetation Association 157 - Hummock grasslands, grass steppe; hard spinifex <i>Triodia wiseana</i>.</p>	<p>The application is to clear up to 150 hectares of native vegetation from a footprint of 2,022 hectares at Cape Lambert for the purpose of mine and port support infrastructure and associated works.</p>	<p>Excellent: Vegetation structure intact; disturbance affecting individual species, weeds non-aggressive (Keighery 1994)</p>	<p>The clearing footprint includes various freehold properties, Crown leases and reserves, unallocated Crown land and road reserves within the localities of Wickham, Point Samson and Antonymyre, in the City of Karratha.</p>
<p>The northeast side of the application area is mapped as Beard Vegetation Association 43 - Low forest; mangroves (Kimberley) or thicket; mangroves (Pilbara). (Shepherd et al., 2001)</p>		<p>To</p>	<p>Rio Tinto's recent flora and vegetation assessment of the clearing footprint reported the condition of the vegetation varied from excellent to very poor, with significant areas having been previously cleared or disturbed for infrastructure projects and development (Rio Tinto, 2012b). Rio Tinto (2012b) advised 35.5 percent of the footprint has been previously cleared with an additional 1.8 percent having been significantly disturbed. Therefore there is approximately 1,267 hectares of native vegetation within the clearing footprint.</p>
<p>A recent flora and vegetation survey of the application area described 27 vegetation units, with one unit (40.67 hectares) from rock piles (RPI1), three (441.7 hectares) from rocky and stony hills (H1 - H3), one (133.14 hectares) from rocky plains (RPL1), five (184.84 hectares) from sandy plains and dunes (SP1 - SP5), five from coastal dunes and plains (C1 - C5), two from saline areas (s1 - S2), three from saline interzones (SI1 - SI3), five from minor drainage lines and broad gullies (D1 - D5) and two from clay flats (CF1 - CF2) (Rio Tinto, 2012b). In addition, 21.81 hectares of the application area were described as rehabilitated areas (R), 35.85 hectares were disturbed areas (D), 718.1 hectares were previously cleared areas (CL) and 37.46 hectares were from beach / coastal rocks or tidal zones (B / R / TZ) (Rio Tinto, 2012b).</p>		<p>Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)</p>	<p>The application is for a permit that will eventually replace numerous existing clearing permits held by Robe River Mining Co Pty Ltd and its related companies in the Cape Lambert area and will include clearing activities required for future projects in the Cape Lambert area. Clearing will be required for activities including, but not limited to, geotechnical investigations, offices and ablutions, roads, communication systems (Fibre optic cable, signal pads, radio base stations etc), construction camps, services and utilities (gas pipelines, water pipelines, power/transmission lines etc), power station and substation, landfill, quarry, bridges and level crossings (Rio Tinto, 2012a).</p>

3. Assessment of application against clearing principles

Comments

This amendment has been made to correct an administrative error in Condition 11(d).

The assessment against the clearing principles has not changed and can be found in the Clearing Permit Decision Report CPS 5272/1.

Planning instrument, Native Title, Previous EPA decision or other matter.

Comments

The assessment against Planning Instruments and Other Matters has not changed and can be found in Clearing Permit Decision Report CPS 5272/1.

4. References

- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Rio Tinto (2012a) Cape Lambert Strategic Purpose Permit Application CPS 5272/1 and supporting correspondence. DEC Ref: A545963; A557025
- Rio Tinto (2012b) Flora and Vegetation Assessment of the Cape Lambert Area, 2012. Rio Tinto, November 2012. DEC Ref: A568107
- Shepherd, D.P., Beeston, G.R., and Hopkins, A.J.M. (2001), Native Vegetation in Western Australia. Technical Report 249. Department of Agriculture Western Australia, South Perth.