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Published on 23 December 2009

Statement No. 824

STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED (PURSUANT TO THE PROVISIONS OF THE ENVIRONMENTAL PROTECTION ACT 1986)

ROY HILL 1 IRON ORE MINING PROJECT STAGE 1, 110 KILOMETRES NORTH OF NEWMAN, SHIRE OF EAST PILBARA

Proposal:	The proposal is to mine iron ore from the Stage 1 project area on the southern slopes of the Chichester Range and develop associated mining infrastructure.	
	The proposal is further documented in Schedule 1 of this statement.	
Proponent:	Roy Hill Iron Ore Pty Ltd	
Proponent Address:	28-42 Ventnor Avenue, WEST PERTH WA 6005	

Assessment Number: 1589

Report of the Environmental Protection Authority: Report 1342

The proposal referred to in the above report of the Environmental Protection Authority may be implemented. The implementation of that proposal is subject to the following conditions and procedures:

1 Proposal Implementation

1-1 The proponent shall implement the proposal as documented and described in schedule 1 of this statement subject to the conditions and procedures of this statement.

2 Proponent Nomination and Contact Details

2-1 The proponent for the time being nominated by the Minister for Environment under sections 38(6) or 38(7) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal.

2-2 The proponent shall notify the Chief Executive Officer of the Office of the Environmental Protection Authority (CEO) of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.

3 Time Limit of Authorisation

- 3-1 The authorisation to implement the proposal provided for in this statement shall lapse and be void five years after the date of this statement if the proposal to which this statement relates is not substantially commenced.
- 3-2 The proponent shall provide the CEO with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of five years from the date of this statement.

4 Compliance Reporting

- 4-1 The proponent shall prepare and maintain a compliance assessment plan to the satisfaction of the CEO.
- 4-2 The proponent shall submit to the CEO the compliance assessment plan required by condition 4-1 at least 6 months prior to the first compliance report required by condition 4-6 or prior to ground disturbing activity, whichever is sooner. The compliance assessment plan shall indicate:
 - 1. the frequency of compliance reporting;
 - 2. the approach and timing of compliance assessments;
 - 3. the retention of compliance assessments;
 - 4. reporting of potential non-compliances and corrective actions taken;
 - 5. the table of contents of compliance reports; and
 - 6. public availability of compliance reports.
- 4-3 The proponent shall assess compliance with conditions in accordance with the compliance assessment plan required by condition 4-1.
- 4-4 The proponent shall retain reports of all compliance assessments described in the compliance assessment plan required by condition 4-1 and shall make those reports available when requested by the CEO.
- 4-5 The proponent shall advise the CEO of any potential non-compliance within 7 days.
- 4-6 The proponent shall submit a compliance assessment report annually from the date of issue of this Implementation Statement addressing the previous twelve month period or other period as agreed by the CEO. The date of the first Compliance Assessment Report shall be 15 months from the date of this Statement, with each

subsequent report 12 months from the date of the previous Report. The compliance assessment report shall:

- 1. be endorsed by the proponent's Managing Director or a person, delegated to sign on the Managing Director's behalf;
- 2. include a statement as to whether the proponent has complied with the conditions;
- 3. identify all potential non-compliances and describe corrective and preventative actions taken;
- 4. be made publicly available in accordance with the approved compliance assessment plan; and
- 5. indicate any proposed changes to the compliance assessment plan required by condition 4-1.

5 **Performance Review and Reporting**

- 5-1 The proponent shall submit to the CEO a Performance Review Report at the conclusion of the first, second, fourth, sixth, eighth and tenth years after the start of implementation and then at five yearly intervals, which addresses:
 - 1. the major environmental risks and impacts; the performance objectives, standards and criteria related to these; the success of risk reduction/impact mitigation measures and results of monitoring related to management of the major risks and impacts;
 - 2. the level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best available technology where practicable; and
 - 3. significant improvements gained in environmental management which could be applied to this and other similar projects.

6 Groundwater Dependent Vegetation

- 6-1 The proponent shall ensure that during construction and operation of the proposal that groundwater abstraction from the Stage 1 and Stage 2 mine areas does not adversely affect vegetation to be retained in the proposal area and that drawdown of groundwater does not extend beyond the co ordinates specified in Schedule 2.
- 6-2 To verify that the requirements of condition 6-1 are met the proponent shall:
 - 1. undertake baseline monitoring of native vegetation health and abundance in the proposal area prior to dewatering;
 - 2. monitor groundwater levels at the boundary of the proposal area and in the vicinity of riparian and groundwater-dependent vegetation; and

- 3. monitor the health and cover of riparian and groundwater dependent vegetation to be retained in the proposal area and in adjacent areas.
- 6-3 The proponent shall submit annually the results of monitoring required by condition 6-2 to the CEO.
- 6-4 In the event that monitoring required by condition 6-2 indicates a decline in the health and condition of riparian or groundwater dependent vegetation:
 - 1. the proponent shall report such findings to the CEO within 21 days of the decline being identified;
 - 2. the proponent shall provide evidence which allows determination of the cause of the decline;
 - 3. if determined by the CEO to be a result of activities undertaken in implementing the proposal, the proponent shall submit actions to be taken to remediate the decline within 21 days of the determination being made to the CEO; and
 - 4. the proponent shall implement actions to remediate the decline of riparian or groundwater dependent vegetation upon approval of the CEO and shall continue until such time the CEO determines that the remedial actions may cease.
- 6-5 The proponent shall make the monitoring reports required by conditions 6-2 publicly available in a manner approved by the CEO.

7 Surface Water Flows and Mulga

- 7-1 The proponent shall ensure that surface water diversion structures do not adversely affect Mulga and riparian vegetation to be retained in the proposal area and that no diversions, other than those included in Figure 4-8 of the *Roy Hill Iron Ore Mining Project, Stage 1 Public Environmental Review*, Hancock Prospecting Pty Ltd, June 2009 are to be constructed.
- 7-2 To verify that the requirements of condition 7-1 are met the proponent shall:
 - 1. undertake baseline monitoring of Mulga and riparian vegetation health and abundance in the proposal area, and adjacent areas prior to surface water diversions;
 - 2. monitor surface water flows, including in the vicinity of Mulga and riparian vegetation; and
 - 3. monitor the health and cover of Mulga and riparian vegetation to be retained in the proposal area and in adjacent areas.

This monitoring is to be carried out to the satisfaction of the CEO, and is to be carried out in such a way that, should a significant decline in health or cover of

Mulga or riparian vegetation be detected, it will be possible to determine whether the decline is attributable to the implementation of the proposal or to other causes.

- 7-3 The proponent shall submit annually the results of monitoring required by condition 7-2 to the CEO.
- 7-4 In the event that monitoring required by condition 7-2 indicates a decline in the health and condition of the Mulga and riparian vegetation:
 - 1. the proponent shall report such findings to the CEO within 21 days of the decline being identified;
 - 2. the proponent shall provide evidence which allows determination of the cause of the decline;
 - 3. if determined by the CEO to be a result of activities undertaken in implementing the proposal, the proponent shall submit actions to be taken to remediate the decline within 21 days of the determination being made to the CEO; and
 - 4. the proponent shall implement actions to remediate the decline of Mulga and riparian vegetation upon approval of the CEO and shall continue until such time the CEO determines that the remedial actions may cease.
- 7-5 The proponent shall make the monitoring reports required by conditions 7-2 publicly available in a manner approved by the CEO.

8 Surface Water and Groundwater Quality

8-1 The proponent shall ensure that run-off and seepage from the waste rock dump, waste fines storage facilities and evaporation pond do not cause the quality of surface water or groundwater within or leaving the proposal area to exceed ANZECC/ARMCANZ* trigger values for a slightly to moderately disturbed ecosystem, taking into consideration natural background water quality, so that existing and potential uses, including ecosystem maintenance, are protected.

* Australian and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand 2000, *Australian Water Quality Guidelines for Fresh and Marine Waters* and its updates.

8-2 The proponent shall monitor the quality of surface water and groundwater around the waste fines and evaporation pond storage facilities and locations where salt is encapsulated to ensure that requirements of condition 8-1 are met. This monitoring is to be carried out using methods consistent with Australian and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand 2000, *Australian Guidelines for Water Quality Monitoring and Reporting* (and its updates) and to the satisfaction of the CEO on advice of the Department of Environment and Conservation.

- 8-3 The proponent shall commence the water quality monitoring required by 8-2 before ground disturbing activities in order to collect baseline data.
- 8-4 The proponent shall submit annually the results of monitoring required by condition 8-2 to the CEO.
- 8-5 In the event that monitoring required by condition 8-2 indicates that the requirements of conditions 8-1 are not being met:
 - 1. the proponent shall report such findings to the CEO within 21 days of the decline in water quality standards being identified;
 - 2. the proponent shall provide evidence which allows determination of the cause of the decline in water quality standards;
 - 3. if determined by the CEO to be a result of activities undertaken in implementing the proposal, the proponent shall submit actions to be taken to remediate the decline in water quality standards within 21 days of the determination being made to the CEO; and
 - 4. the proponent shall implement actions to remediate the decline in water quality standards upon approval of the CEO and shall continue to implement such actions until such time the CEO determines that the remedial actions may cease.
- 8-6 The proponent shall make the monitoring reports required by condition 8-2 publicly available in a manner approved by the CEO.

9 Short-Range Endemic Invertebrates

- 9-1 The proponent shall implement the proposal to avoid disturbance of areas where *Missulena* sp, *Synothele* 'MYG127', *Aganippe* 'MYG126', *Idiommata* 'MYG128' and *Beierolpium* have been recorded as shown in Figure 4 attached and delineated by MGA coordinates specified in Schedule 3.
- 9-2 The proponent shall install and maintain fencing and signage around areas specified in Schedule 3 and delineated in Figure 4 to prevent access by humans or machinery.
- 9-3 The proponent shall monitor the population size of the species *Missulena* sp, *Synothele* 'MYG127', *Aganippe* 'MYG126', *Idiommata* 'MYG128' and *Beierolpium* within the areas specified in Schedule 3 and delineated in Figure 4 to verify that the requirements of condition 9-1 are met. This monitoring is to be carried out to the satisfaction of the CEO and in liaison with the Western Australian Museum and is to be carried out in such a way that, if a significant decline in the population of any of the above taxa is detected, it will be possible to determine whether the decline is attributable to the implementation of the proposal or to other factors.
- 9-4 The proponent shall submit annually the results of monitoring required by condition 9-3 to the CEO.

- 9-5 In the event that monitoring required by condition 9-3 indicates a decline in the population of any or all of the taxa:
 - 1. the proponent shall report such findings to the CEO within 21 days of the decline being identified;
 - 2. the proponent shall provide evidence which allows determination of the cause of the decline;
 - 3. if determined by the CEO to be a result of activities undertaken in implementing the proposal, the proponent shall submit actions to be taken to remediate the decline to the CEO; and
 - 4. the proponent shall implement actions to remediate the decline upon approval of the CEO and shall continue until such actions until such time as the CEO determines that the remedial actions may cease.
- 9-6 The proponent shall make the monitoring reports required by condition 9-3 publicly available in a manner approved by the CEO.

10 Rehabilitation

- 10-1 The proponent shall undertake rehabilitation to achieve the following outcomes:
 - 1. the waste rock dump and waste fines storage facilities shall be non-polluting and shall be constructed so that their final shape, stability, surface drainage, resistance to erosion and ability to support local native vegetation are comparable to natural landforms in the area.
 - 2. the mine pits shall be backfilled with overburden to the original ground level.
 - 3. the waste rock dump, waste fines storage facilities and other areas disturbed through implementation of the proposal, shall be progressively rehabilitated with vegetation composed of native plant species of local provenance (as agreed by the CEO in consultation with the Department of Environment and Conservation).
 - 4. the percentage cover of living vegetation in all rehabilitation areas shall be comparable with that of nearby land which has not been disturbed during implementation of the proposal.
 - 5. no new species of weeds (including both declared weeds and environmental weeds) shall be introduced into the area as a result of the implementation of the proposal.
 - 6. the coverage of weeds (including both declared weeds and environmental weeds) within the rehabilitation areas shall be no greater than 10%.

10-2 Rehabilitation activities shall continue as necessary until such time as the requirements of condition 10-1 are met, and are demonstrated by inspections and reports to be met, for a minimum of five years to the satisfaction of the CEO and the Chief Executive Officer of the Department of Mines and Petroleum.

11 Conceptual Closure Strategy

- 11-1 Prior to commencing ground-disturbing activity, the proponent shall submit a detailed and project-specific Conceptual Closure Strategy to the requirements of the CEO and the Chief Executive Officer of the Department of Mines and Petroleum.
- 11-2 The Conceptual Closure Strategy shall include detailed results of geochemical and geophysical characterisation of materials, in particular the potential for acid drainage, metalliferous drainage, and of the occurrence of dispersive materials and asbestiform minerals. Testing for materials with potential to cause acid and metalliferous drainage shall include static and kinetic testing carried out using techniques and timeframes consistent with national and international standards (Leading Practice Sustainable Development Program for the Mining Industry Managing Acid and Metalliferous Drainage 2009 Department of Industry, Tourism and Resources; The Global Acid Rock Drainage Guide 2009 International Network for Acid Prevention).
- 11-3 The Conceptual Closure Strategy shall provide detailed technical information on proposed management measures to prevent pollution, environmental harm or human health impacts during implementation of the proposal and after mine completion and closure.
- 11-4 The Conceptual Closure Strategy shall include maps and diagrams showing the proposed placement, dimensions, design and proposed methods of construction and closure of waste disposal facilities and mine pits.
- 11-5 The Conceptual Closure Strategy shall demonstrate that the waste rock dump and waste fines storage facilities will be located, designed and constructed to ensure that they are non-polluting and so that their final shape, height, stability, surface drainage, resistance to erosion and ability to support native vegetation are comparable to natural landforms in the area.
- 11-6 The Conceptual Closure Strategy shall provide detailed technical information demonstrating that sufficient quantities of suitable materials are available on site for the implementation and closure (including unplanned or temporary closure) of the proposal.
- 11-7 The Conceptual Closure Strategy shall include specific practicable procedures to ensure the protection of the environment in the event of unplanned or temporary mine closure.
- 11-8 The proponent shall implement the proposal consistent with the Conceptual Closure Strategy referred to in conditions 11-1 to 11-7.

12 Final Closure and Decommissioning Plan

- 12-1 At least 5 years prior to mine completion, the proponent shall prepare and submit a Final Closure and Decommissioning Plan to the requirement of the CEO and the Chief Executive Officer of the Department of Mines and Petroleum.
- 12-2 The Final Closure and Decommissioning Plan shall be prepared consistent with:
 - 1. ANZMEC/MCA 2000, Strategic Framework for Mine Closure Planning; and
 - 2. Department of Industry Tourism and Resources 2006 *Mine Closure and Completion* (Leading Practice Sustainable Development Program for the Mining Industry), Commonwealth Government, Canberra.

and shall provide detailed technical information on the following:

- 1. final closure of all areas disturbed through implementation of the proposal so that they are safe, stable and non-polluting;
- 2. decommissioning of all plant and equipment;
- 3. disposal of waste materials;
- 4. final rehabilitation of waste rock dump; waste fines storage facilities; and other areas;
- 5. capping of the evaporation pond;
- 6. management and monitoring following mine completion; and
- 7. inventory of all contaminated sites and proposed management.
- 12-3 The proponent shall close, decommission and rehabilitate the proposal consistent with the approved Final Closure and Decommissioning Plan.
- 12-4 The proponent shall make the Final Closure and Decommissioning Plan required by conditions 12-1 and 12-2 publicly available in a manner acceptable to the CEO.

Procedures

- 1. Where a condition states "on advice of the Department of Environment and Conservation", the Department of Environment and Conservation will provide that advice to the Office of the Environmental Protection Authority for the preparation of written notice to the proponent.
- 2. The Office of the Environmental Protection Authority may seek advice from other agencies or organisations, as required.

- 3. The Minister for Environment will determine any dispute between the proponent and the Office of the Environmental Protection Authority over the fulfilment of the requirements of the conditions.
- 4. The proponent may be required to apply for a Works Approval and Licence for this project under the provisions of part V of the *Environmental Protection Act 1986*. The proponent should consult with the Department of Environment and Conservation in order to clarify requirements under Part V of the *Environmental Protection Act 1986*.

Donna Faragher JP MLC MINISTER FOR ENVIRONMENT; YOUTH

The Proposal (Assessment No. 1589)

The proposal is to:

- mine iron ore from the Stage 1 project area on the southern slopes of the Chichester Range; and
- develop associated mining infrastructure for the project (i.e., ROM pads, waste dumps, waste fines storage facilities, evaporation pond etc), realignment of Marble Bar Road, construction of an airfield, rail loop and conveyor, and access roads.

The location of the various project components is shown in Figures 1, 2 and 3.

The main characteristics of the proposal are summarised in Table 1 below. A detailed description of the proposal is provided in section 5 of the project referral document, (Roy Hill 1 Iron Ore Mining Project, Stage 1 Public Environmental Review. Roy Hill Iron Ore Pty Ltd, 2009).

Element	Description	
Mine Life	10 to15 years	
Processing Rate	Up to 65 million tonnes per annum (Mt/a) throughput to produce 55 Mt/a ore for export	
Target Grade	60% Iron (average lump or fines) or higher	
Mineral Resource	Up to 600 Mt from Bedded Marra Mamba Ore	
Strip Ratio	4:1 (average overburden to ore ratio)	
Area of Disturbance	7,200 hectares (ha) (includes 5,120 ha for mine pits)	
Maximum Pit Depth	100 metres (m) nominal	
Overburden	2,060 Mt overburden would be used as pit infill with some stored in out of pit dump	
Mine Dewatering	Average of 20.5 million litres per day (ML/day)	
Saline Dewater for Disposal	Dewatering to produce 22,510 million litres (ML) to be disposed of via a 400 ha evaporation pond	
Ore Transport	Not part of this proposal	
Water Supply	Water from the mine and advanced dewatering would be used	
Greenhouse Gas Emissions	280,000 tonnes CO ₂ -equivelent per annum	

Table 1 Summary of Key Proposal Characteristics

Figures (as attached):

- Figure 1 Project Location
- Figure 2 Mining Stages
- Figure 3 Project Infrastructure Layout
- Figure 4 Short Range Endemics Survey Sites
- Figure 5 Groundwater Drawdown Contours (2m)



Figure 1 Project Location



Figure 2 Mining Stages

Figure 4 Short Range Endemics Survey Sites

Figure 5Groundwater Drawdown Contours (2m)

Schedule 2

MGA coordinates for the 2 metre groundwater drawdown contours at 10 years.

Coordinate Sys	ULIII ODA 199	4 MGA ZOIIE 30
Object ID	Easting	Northing
1	797942	7512600
1	798067	7512632
1	798214	7512683
1	798397	7512768
1	798534	7512847
1	798671	7512936
1	798819	7513043
1	798988	7513183
1	799153	7513340
1	799430	7513629
1	799609	7513792
1	799832	7513981
1	799958	7514102
1	800095	7514249
1	800264	7514448
1	800383	7514598
1	800438	7514674
1	800477	7514747
1	800501	7514813
1	800508	7514853
1	800505	7514893
1	800490	7514930
1	800468	7514964
1	800439	7514992
1	800400	7515015
1	800348	7515030
1	800280	7515038
1	800187	7515037
1	800066	7515020
1	799931	7514988
1	799693	7514920
1	799560	7514890
1	799400	7514868
1	799346	7514869
1	799200	7514903
1	799149	7514926
1	799101	7514957
1	798991	7515055

Coordinate System GDA 1994 MGA Zone 50

Object ID	Easting	Northing
1	798944	7515102
1	798823	7515230
1	798705	7515360
1	798600	7515493
1	798543	7515588
1	798485	7515700
1	798450	7515800
1	798405	7515973
1	798380	7516120
1	798370	7516253
1	798373	7516387
1	798393	7516560
1	798422	7516773
1	798428	7516893
1	798422	7517000
1	798404	7517107
1	798380	7517186
1	798329	7517317
1	798277	7517412
1	798191	7517543
1	798094	7517660
1	797994	7517760
1	797880	7517855
1	797749	7517947
1	797593	7518035
1	797454	7518098
1	797320	7518150
1	797133	7518207
1	796973	7518243
1	796827	7518268
1	796640	7518287
1	796440	7518294
1	796227	7518288
1	796000	7518268
1	795799	7518240
1	795587	7518201
1	795373	7518149
1	795147	7518079
1	794976	7518015
1	794796	7517937
1	794591	7517828
1	794431	7517725
1	794289	7517619
1	794150	7517498

Object ID	Easting	Northing
1	794022	7517369
1	793911	7517239
1	793821	7517119
1	793732	7516981
1	793656	7516836
1	793607	7516729
1	793567	7516606
1	793540	7516507
1	793516	7516360
1	793505	7516213
1	793506	7516040
1	793523	7515813
1	793556	7515545
1	793598	7515280
1	793649	7515040
1	793711	7514813
1	793775	7514627
1	793849	7514448
1	793945	7514256
1	794058	7514059
1	794192	7513857
1	794310	7513699
1	794416	7513569
1	794527	7513447
1	794640	7513335
1	794771	7513224
1	794912	7513121
1	795059	7513029
1	795264	7512927
1	795426	7512860
1	795600	7512798
1	795840	7512727
1	796107	7512662
1	796359	7512611
1	796587	7512576
1	796827	7512552
1	797093	7512540
1	797387	7512540
1	797613	7512551
1	797800	7512572
1	797929	7512597
1	797942	7512600
2	807597	7505160
2	807681	7505180

2 807781 7505216	
2 007701 7505210	
2 207251 7505252	
2 807851 7505252	
2 807371 7505352	
2 808045 7505400	
2 808115 7505477	
2 808170 7505536	
2 808255 7505099	
2 808294 7505786	
2 808375 7505986	
2 808413 7506106	
2 808448 7506253	
2 808476 7506387	
2 808495 7506533	
2 808501 7506693	
2 808495 7506867	
2 808476 7507053	
2 808433 7507333	
2 808405 7507613	
2 808387 7507947	
2 808384 7508173	
2 808394 7508333	
2 808414 7508480	
2 808440 7508585	
2 808476 7508677	
2 808538 7508797	
2 808594 7508880	
2 808688 7509000	
2 808897 7509240	
2 808989 7509360	
2 809090 7509527	
2 809130 7509612	
2 809191 7509786	
2 809219 7509906	
2 809237 7510040	
2 809249 7510240	
2 809260 7510640	
2 809264 7510893	
2 809256 7511053	
2 809238 7511187	
2 809208 7511320	
2 809174 7511426	
2 809109 7511614	
2 809021 7511830	
2 808916 7512120	

Object ID	Easting	Northing
2	808824	7512453
2	808791	7512600
2	808735	7512947
2	808680	7513338
2	808651	7513533
2	808614	7513694
2	808579	7513800
2	808513	7513957
2	808459	7514050
2	808375	7514171
2	808279	7514280
2	808190	7514366
2	808069	7514465
2	807889	7514590
2	807660	7514727
2	807539	7514794
2	807444	7514848
2	807336	7514907
2	807206	7514977
2	807000	7515087
2	806784	7515189
2	806533	7515285
2	806373	7515331
2	806173	7515371
2	806027	7515392
2	805827	7515408
2	805600	7515412
2	805347	7515403
2	805053	7515378
2	804667	7515331
2	804453	7515293
2	804310	7515258
2	804120	7515202
2	803988	7515152
2	803807	7515070
2	803629	7514968
2	803511	7514887
2	803381	7514785
2	803253	7514667
2	803151	7514553
2	803077	7514456
2	802984	7514304
2	802936	7514205
2	802880	7514067

	-	
Object ID	Easting	Northing
2	802829	7513907
2	802772	7513707
2	802697	7513480
2	802657	7513390
2	802567	7513225
2	802453	7513059
2	802367	7512938
2	802279	7512794
2	802236	7512694
2	802210	7512614
2	802179	7512454
2	802173	7512347
2	802179	7512200
2	802195	7512082
2	802224	7511933
2	802266	7511786
2	802348	7511579
2	802426	7511424
2	802620	7511076
2	802712	7510896
2	802785	7510720
2	802825	7510586
2	802855	7510440
2	802873	7510293
2	802881	7510120
2	802875	7509813
2	802870	7509493
2	802879	7509280
2	802900	7509080
2	802942	7508853
2	802988	7508680
2	803074	7508448
2	803142	7508304
2	803237	7508138
2	803342	7507984
2	803478	7507820
2	803613	7507680
2	803760	7507549
2	803931	7507414
2	804142	7507266
2	804286	7507166
2	804350	7507110
2	804421	7507027
2	804480	7506942
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Object ID Easting Northing 2 804506 7506879 2 804553 7506707 2 804581 7506547 2 804604 7506385 2 804622 7506000 2 804655 7506000 2 804685 7505000 2 804727 7505900 2 80471 7505818 2 804801 7505749 2 805007 7505490 2 805000 7505490 2 80506 7505137 2 805200 7505490 2 805506 7505198 2 805506 7505198 2 805405 7505103 2 805626 7505131 2 806647 7505087 2 806647 7505131 2 80767 7505131 2 807467 7505131 2			
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Object ID Easting Northing 3 816245 7499333 3 816246 7499493 3 816223 7499814 3 816227 7499867 3 816227 7499897 3 816271 7499899 3 816272 750019 3 816372 7500141 3 816694 7500207 3 816694 7500207 3 816694 7500207 3 816694 7500207 3 816913 7500333 3 816913 7500303 3 816913 7500424 3 817080 7500424 3 817143 7500720 3 81727 7500600 3 817391 7500856 3 817391 7500856 3 817450 7501050 3 817930 7501212 3			
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3 816432 7500114 3 816507 7500207 3 816694 7500207 3 816828 7500262 3 816913 7500303 3 816991 7500353 3 816991 7500424 3 817080 7500424 3 817143 7500490 3 817227 7500600 3 817314 7500720 3 817314 7500805 3 817450 7500805 3 817450 7500805 3 81780 7501050 3 81780 7501050 3 817827 7501097 3 817930 7501212 3 81794 7501400 3 817954 7501400 3 817971 7501333 3 81794 7501400 3 817966 7501468 3 817920<	3	816372	7500076
3 816507 7500141 3 816694 7500207 3 816828 7500262 3 816913 7500303 3 816991 7500353 3 817080 7500424 3 817143 7500400 3 817227 7500600 3 817314 7500720 3 817391 7500805 3 817450 7500856 3 817580 7500941 3 81765 7501050 3 81780 750197 3 817827 7501097 3 817894 7501165 3 817930 7501212 3 81794 7501333 3 81794 7501400 3 81794 7501400 3 81794 7501400 3 81794 7501400 3 81794 7501534 3 817960	3	816432	7500114
3 816694 7500207 3 816828 7500303 3 816913 7500303 3 816991 7500353 3 817080 7500424 3 817143 7500400 3 817227 7500600 3 817314 7500720 3 817314 7500805 3 817450 7500856 3 817450 7500805 3 817450 7500941 3 817765 7501050 3 817827 7501097 3 81784 7501264 3 817930 7501212 3 81794 7501333 3 81794 7501333 3 817920 7501534 3 817920 7501581 3 817804 7501624 3 81780 7501727 3 817640 7501732 3 817640<	3	816507	7500141
3 816828 7500262 3 816913 7500303 3 816991 7500353 3 817080 7500424 3 817143 7500490 3 817227 7500600 3 817314 7500720 3 817314 7500805 3 817450 7500856 3 817450 7500805 3 817580 7501050 3 817765 7501097 3 817827 7501097 3 817894 7501212 3 817930 7501212 3 817974 7501333 3 817974 7501400 3 817966 7501468 3 817920 7501534 3 817804 7501624 3 817804 7501624 3 817804 7501727 3 817640 7501732 3 817	3	816694	7500207
3 816913 7500303 3 816991 7500353 3 817080 7500424 3 817143 7500490 3 817227 7500600 3 817314 7500720 3 817314 7500805 3 817450 7500856 3 817450 7500856 3 817450 7500941 3 81765 7501050 3 817827 7501097 3 817827 7501097 3 817930 7501212 3 81794 7501264 3 817954 7501264 3 817971 7501333 3 817974 7501400 3 817944 7501534 3 817940 7501581 3 817800 7501695 3 81780 7501725 3 817640 7501725 3 81747<	3	816828	7500262
3 816991 7500353 3 817080 7500424 3 817143 7500490 3 817227 7500600 3 817314 7500720 3 817391 7500805 3 817450 7500856 3 817450 7500856 3 817580 7501050 3 817765 7501050 3 817827 7501097 3 817894 7501212 3 817930 7501212 3 817944 7501264 3 817974 7501333 3 817974 7501400 3 817944 7501534 3 817940 7501534 3 817800 7501624 3 817800 7501725 3 81780 7501725 3 817640 7501725 3 817640 7501725 3 8172	3	816913	7500303
3 817080 7500424 3 817143 7500490 3 817227 7500600 3 817314 7500720 3 817391 7500805 3 817450 7500856 3 81750 7500856 3 81765 7501050 3 817827 7501097 3 817894 7501212 3 817930 7501212 3 817954 7501264 3 817974 7501333 3 817974 7501400 3 817966 7501468 3 817920 7501534 3 817920 7501581 3 817800 7501624 3 81780 7501727 3 817640 7501725 3 817640 7501725 3 817240 7501697 3 817240 7501697 3 817240	3	816991	7500353
3 817143 7500490 3 817227 7500600 3 817314 7500720 3 817391 7500805 3 817450 7500856 3 817450 7500856 3 817580 7500941 3 817765 7501050 3 817827 7501097 3 817827 7501097 3 817894 7501212 3 817930 7501212 3 817944 7501264 3 817974 7501333 3 817974 7501400 3 817944 7501534 3 817966 7501468 3 817920 7501581 3 817884 7501624 3 817800 7501727 3 817640 7501727 3 817640 7501725 3 817240 7501694 3 817	3	817080	7500424
3 817227 7500600 3 817314 7500720 3 817391 7500805 3 817450 7500856 3 817450 7500941 3 817765 7501050 3 817765 7501097 3 817827 7501097 3 817894 7501165 3 817930 7501212 3 817974 7501333 3 817974 7501400 3 817966 7501468 3 817966 7501468 3 817920 7501534 3 817884 7501624 3 817800 7501695 3 817763 7501714 3 817640 7501732 3 817547 7501697 3 817347 7501697 3 817240 7501694 3 817240 7501694 3 817	3	817143	7500490
3 817314 7500720 3 817391 7500805 3 817450 7500856 3 817580 7500941 3 817765 7501050 3 817827 7501097 3 817827 7501097 3 817827 7501264 3 817944 7501264 3 817974 7501333 3 817974 7501400 3 817966 7501468 3 817966 7501468 3 817944 7501534 3 817920 7501581 3 817884 7501624 3 817800 7501725 3 817708 7501727 3 817640 7501732 3 817240 7501697 3 817240 7501694 3 817240 7501694 3 817240 7501694 3 816	3	817227	7500600
3 817391 7500805 3 817450 7500856 3 817580 7500941 3 817765 7501050 3 817827 7501097 3 817827 7501097 3 817894 7501165 3 817930 7501212 3 817944 7501264 3 817974 7501333 3 817974 7501400 3 817966 7501468 3 817966 7501468 3 817920 7501534 3 817800 7501624 3 817800 7501624 3 81780 7501624 3 817763 7501714 3 817640 7501725 3 817640 7501725 3 817240 7501697 3 817240 7501694 3 816907 7501704 3 8169	3	817314	7500720
3 817450 7500856 3 817580 7500941 3 817765 7501050 3 817827 7501097 3 817894 7501165 3 817930 7501212 3 817954 7501333 3 817971 7501333 3 817974 7501400 3 817966 7501468 3 817966 7501468 3 817920 7501534 3 817884 7501624 3 817884 7501624 3 817884 7501624 3 817708 7501727 3 817640 7501725 3 817547 7501725 3 817240 7501697 3 817240 7501697 3 817240 7501704 3 816907 7501741 3 816519 7501817 3 816	3	817391	7500805
3 817580 7500941 3 817765 7501050 3 817827 7501097 3 817894 7501165 3 817930 7501212 3 817954 7501264 3 817971 7501333 3 817974 7501400 3 817966 7501468 3 817966 7501534 3 817920 7501581 3 817800 7501624 3 817800 7501624 3 817800 7501624 3 817800 7501624 3 817800 7501624 3 817708 7501725 3 817640 7501732 3 817547 7501697 3 817240 7501697 3 817240 7501694 3 816907 7501704 3 816519 7501817 3 816	3	817450	7500856
3 817765 7501050 3 817827 7501097 3 817894 7501165 3 817930 7501212 3 817954 7501264 3 817971 7501333 3 817974 7501400 3 817966 7501468 3 817966 7501534 3 817920 7501581 3 817800 7501624 3 817800 7501624 3 817800 7501624 3 817800 7501727 3 817763 7501714 3 817640 7501732 3 817640 7501725 3 817240 7501697 3 817240 7501697 3 81720 7501704 3 816907 7501741 3 816519 7501817 3 816333 7501861 3 8163	3	817580	7500941
3 817827 7501097 3 817894 7501165 3 817930 7501212 3 817930 7501264 3 817974 7501333 3 817974 7501333 3 817974 7501400 3 817966 7501468 3 817944 7501534 3 817920 7501581 3 817884 7501624 3 817800 7501795 3 817763 7501714 3 817640 7501727 3 817640 7501725 3 817547 7501725 3 817240 7501697 3 817240 7501697 3 817240 7501704 3 816907 7501741 3 816519 7501817 3 816519 7501817 3 816333 7501861 3 816	3	817765	7501050
3 817894 7501165 3 817930 7501212 3 817954 7501264 3 817971 7501333 3 817974 7501400 3 817966 7501468 3 817966 7501534 3 817920 7501581 3 817884 7501624 3 817800 7501624 3 817800 7501624 3 81780 7501714 3 817763 7501727 3 817640 7501732 3 817547 7501697 3 817240 7501697 3 817240 7501697 3 81720 7501704 3 816907 7501741 3 816519 7501817 3 816333 7501861 3 816333 7501861	3	817827	7501097
38179307501212381795475012643817971750133338179747501333381797475014003817966750146838179447501534381792075015813817884750162438178007501695381776375017143817640750172738176407501725381724075016973817240750169438169077501741381651975018173816333750186138163337501916	3	817894	7501165
3 817954 7501264 3 817971 7501333 3 817974 7501400 3 817966 7501468 3 817944 7501534 3 817920 7501581 3 817844 7501624 3 817800 7501695 3 817763 7501714 3 817708 7501727 3 817547 7501725 3 817240 7501697 3 817240 7501694 3 817240 7501697 3 817240 7501694 3 816907 7501704 3 816519 7501817 3 816519 7501817 3 816333 7501861 3 816333 7501861	3	817930	7501212
3 817971 7501333 3 817974 7501400 3 817966 7501468 3 817944 7501534 3 817920 7501581 3 817884 7501624 3 817800 7501695 3 817763 7501714 3 817708 7501727 3 817640 7501732 3 817547 7501697 3 817240 7501697 3 817120 7501704 3 816907 7501741 3 816519 7501817 3 816333 7501861 3 816333 7501861	3	817954	7501264
3 817974 7501400 3 817966 7501468 3 817944 7501534 3 817920 7501581 3 817884 7501624 3 817800 7501695 3 817763 7501714 3 817763 7501727 3 817640 7501732 3 817547 7501697 3 817240 7501694 3 817240 7501697 3 817240 7501694 3 816907 7501704 3 816519 7501817 3 816333 7501817 3 816333 7501817 3 816333 7501861 3 816333 7501861	3	817971	7501333
3 817966 7501468 3 817944 7501534 3 817920 7501581 3 817884 7501624 3 817800 7501695 3 817763 7501714 3 817708 7501727 3 817640 7501725 3 817547 7501725 3 817347 7501697 3 817240 7501694 3 817120 7501704 3 816907 7501741 3 816519 7501817 3 816333 7501861 3 816333 7501916	3	817974	7501400
3 817944 7501534 3 817920 7501581 3 817884 7501624 3 817800 7501695 3 817763 7501714 3 817708 7501727 3 817640 7501732 3 817547 7501725 3 817240 7501697 3 817120 7501704 3 816907 7501741 3 816519 7501817 3 816333 7501861 3 816333 7501861	3	817966	7501468
38179207501581381788475016243817800750169538177637501714381770875017273817640750173238175477501725381734775016973817240750169438169077501741381651975018173816333750186138161397501916	3	817944	7501534
3 817884 7501624 3 817800 7501695 3 817763 7501714 3 817708 7501727 3 817640 7501732 3 817547 7501725 3 817240 7501697 3 817120 7501694 3 816907 7501741 3 816519 7501817 3 816333 7501861 3 816139 7501916	3	817920	7501581
381780075016953817763750171438177087501727381764075017323817547750172538173477501697381724075016943817120750170438169077501741381651975018173816333750186138161397501916	3	817884	7501624
3 817763 7501714 3 817708 7501727 3 817640 7501732 3 817547 7501725 3 817347 7501697 3 817240 7501694 3 817120 7501704 3 816907 7501741 3 816519 7501817 3 816333 7501861 3 816139 7501916	3	817800	7501695
38177087501727381764075017323817547750172538173477501697381724075016943817120750170438169077501741381651975018173816333750186138161397501916	3	817763	7501714
381764075017323817547750172538173477501697381724075016943817120750170438169077501741381651975018173816333750186138161397501916	3	817708	7501727
3817547750172538173477501697381724075016943817120750170438169077501741381651975018173816333750186138161397501916	3	817640	7501732
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3817120750170438169077501741381651975018173816333750186138161397501916	3	817240	7501694
38169077501741381651975018173816333750186138161397501916	3	817120	7501704
381651975018173816333750186138161397501916	3	816907	7501741
3 816333 7501861 3 816139 7501916	3	816519	7501817
3 816139 7501916	3	816333	7501861
	3	816139	7501916

Object ID	Easting	Northing
3	815987	7501967
3	815894	7501989
3	815813	7501996
3	815746	7501993
3	815653	7501973
3	815400	7501894
3	815186	7501825
3	815075	7501779
3	814991	7501732
3	814701	7501533
3	814550	7501445
3	814345	7501346
3	814261	7501320
3	814187	7501303
3	814132	7501303
3	814092	7501312
3	814062	7501327
3	814028	7501355
3	814000	7501389
3	813981	7501427
3	813975	7501467
3	813982	7501507
3	814001	7501560
3	814040	7501628
3	814098	7501700
3	814186	7501800
3	814271	7501908
3	814289	7501945
3	814321	7502040
3	814309	7502097
3	814301	7502148
3	814286	7502183
3	814251	7502225
3	814179	7502288
3	814131	7502314
3	814014	7502354
3	813907	7502380
3	813693	7502411
3	813533	7502425
3	813426	7502424
3	813360	7502416
3	813228	7502380
3	813143	7502344
3	813028	7502280

Object ID	Easting	Northing
3	812917	7502213
3	812844	7502181
3	812747	7502148
3	812694	7502141
3	812627	7502145
3	812506	7502166
3	812413	7502198
3	812255	7502256
3	812080	7502312
3	811933	7502345
3	811720	7502374
3	811547	7502397
3	811440	7502424
3	811366	7502454
3	811309	7502487
3	811271	7502520
3	811239	7502565
3	811189	7502667
3	811138	7502799
3	811110	7502848
3	811080	7502884
3	811018	7502934
3	810960	7502966
3	810908	7502983
3	810854	7502989
3	810812	7502983
3	810757	7502963
3	810710	7502934
3	810664	7502890
3	810635	7502847
3	810613	7502798
3	810602	7502747
3	810599	7502621
3	810608	7502520
3	810594	7502400
3	810580	7502360
3	810551	7502312
3	810512	7502271
3	810390	7502175
3	810215	7502075
3	810109	7502012
3	809965	7501911
3	809864	7501808
3	809822	7501755

Object ID	Easting	Northing
3	809786	7501693
3	809705	7501507
3	809639	7501320
3	809496	7500998
3	809446	7500889
3	809365	7500654
3	809325	7500493
3	809298	7500333
3	809282	7500160
3	809280	7499983
3	809289	7499813
3	809313	7499640
3	809348	7499480
3	809388	7499351
3	809440	7499200
3	809506	7499052
3	809586	7498897
3	809695	7498723
3	809823	7498550
3	809953	7498399
3	810099	7498251
3	810259	7498111
3	810402	7497999
3	810578	7497875
3	810755	7497765
3	810960	7497655
3	811213	7497541
3	811428	7497462
3	811613	7497403
3	811907	7497332
3	812120	7497293
3	812347	7497265
3	812587	7497249
3	812840	7497246
3	813093	7497255
3	813333	7497276
3	813547	7497307
3	813747	7497347
3	813802	7497360

Table showing coordinates of specified 50 m Exclusion Zones for Short Range Endemic (SRE) locations.

SRE Survey Site	Genus	Easting	Northing
16	Missulena	811036	7500182
16	Missulena	811042	7500182
16	Missulena	811048	7500181
16	Missulena	811054	7500179
16	Missulena	811060	7500176
16	Missulena	811065	7500173
16	Missulena	811070	7500169
16	Missulena	811074	7500164
16	Missulena	811078	7500159
16	Missulena	811081	7500153
16	Missulena	811083	7500148
16	Missulena	811085	7500142
16	Missulena	811086	7500135
16	Missulena	811086	7500129
16	Missulena	811085	7500123
16	Missulena	811083	7500117
16	Missulena	811081	7500111
16	Missulena	811078	7500105
16	Missulena	811074	7500100
16	Missulena	811070	7500096
16	Missulena	811065	7500092
16	Missulena	811060	7500088
16	Missulena	811054	7500086
16	Missulena	811048	7500084
16	Missulena	811042	7500083
16	Missulena	811036	7500082
16	Missulena	811030	7500083
16	Missulena	811023	7500084
16	Missulena	811017	7500086
16	Missulena	811012	7500088
16	Missulena	811006	7500092
16	Missulena	811002	7500096
16	Missulena	810997	7500100
16	Missulena	810994	7500105
16	Missulena	810991	7500111

Coordinate System GDA 1994 MGA Zone 50

SRE Survey Site	Genus	Easting	Northing
16	Missulena	810988	7500117
16	Missulena	810987	7500123
16	Missulena	810986	7500129
16	Missulena	810986	7500135
16	Missulena	810987	7500142
16	Missulena	810988	7500148
16	Missulena	810991	7500153
16	Missulena	810994	7500159
16	Missulena	810997	7500164
16	Missulena	811002	7500169
16	Missulena	811006	7500173
16	Missulena	811012	7500176
16	Missulena	811017	7500179
16	Missulena	811023	7500181
16	Missulena	811030	7500182
16	Missulena	811036	7500182
13	Idiommata	802754	7511189
13	Idiommata	802760	7511189
13	Idiommata	802766	7511188
13	Idiommata	802772	7511186
13	Idiommata	802778	7511183
13	Idiommata	802783	7511180
13	Idiommata	802788	7511176
13	Idiommata	802792	7511171
13	Idiommata	802796	7511166
13	Idiommata	802799	7511161
13	Idiommata	802801	7511155
13	Idiommata	802803	7511149
13	Idiommata	802804	7511142
13	Idiommata	802804	7511136
13	Idiommata	802803	7511130
13	Idiommata	802801	7511124
13	Idiommata	802799	7511118
13	Idiommata	802796	7511113
13	Idiommata	802792	7511107
13	Idiommata	802788	7511103
13	Idiommata	802783	7511099
13	Idiommata	802778	7511096
13	Idiommata	802772	7511093
13	Idiommata	802766	7511091

SRE Survey Site	Genus	Easting	Northing
13	Idiommata	802760	7511090
13	Idiommata	802754	7511089
13	Idiommata	802747	7511090
13	Idiommata	802741	7511091
13	Idiommata	802735	7511093
13	Idiommata	802730	7511096
13	Idiommata	802724	7511099
13	Idiommata	802719	7511103
13	Idiommata	802715	7511107
13	Idiommata	802711	7511113
13	Idiommata	802708	7511118
13	Idiommata	802706	7511124
13	Idiommata	802705	7511130
13	Idiommata	802704	7511136
13	Idiommata	802704	7511142
13	Idiommata	802705	7511149
13	Idiommata	802706	7511155
13	Idiommata	802708	7511161
13	Idiommata	802711	7511166
13	Idiommata	802715	7511171
13	Idiommata	802719	7511176
13	Idiommata	802724	7511180
13	Idiommata	802730	7511183
13	Idiommata	802735	7511186
13	Idiommata	802741	7511188
13	Idiommata	802747	7511189
13	Idiommata	802754	7511189
9	Aganippe	805483	7502578
9	Aganippe	805490	7502578
9	Aganippe	805496	7502577
9	Aganippe	805502	7502575
9	Aganippe	805507	7502572
9	Aganippe	805513	7502569
9	Aganippe	805518	7502565
9	Aganippe	805522	7502560
9	Aganippe	805526	7502555
9	Aganippe	805529	7502549
9	Aganippe	805531	7502544
9	Aganippe	805532	7502537
9	Aganippe	805533	7502531

SRE Survey Site	Genus	Easting	Northing
9	Aganippe	805533	7502525
9	Aganippe	805532	7502519
9	Aganippe	805531	7502513
9	Aganippe	805529	7502507
9	Aganippe	805526	7502501
9	Aganippe	805522	7502496
9	Aganippe	805518	7502492
9	Aganippe	805513	7502488
9	Aganippe	805507	7502484
9	Aganippe	805502	7502482
9	Aganippe	805496	7502480
9	Aganippe	805490	7502479
9	Aganippe	805483	7502478
9	Aganippe	805477	7502479
9	Aganippe	805471	7502480
9	Aganippe	805465	7502482
9	Aganippe	805459	7502484
9	Aganippe	805454	7502488
9	Aganippe	805449	7502492
9	Aganippe	805445	7502496
9	Aganippe	805441	7502501
9	Aganippe	805438	7502507
9	Aganippe	805436	7502513
9	Aganippe	805434	7502519
9	Aganippe	805433	7502525
9	Aganippe	805433	7502531
9	Aganippe	805434	7502537
9	Aganippe	805436	7502544
9	Aganippe	805438	7502549
9	Aganippe	805441	7502555
9	Aganippe	805445	7502560
9	Aganippe	805449	7502565
9	Aganippe	805454	7502569
9	Aganippe	805459	7502572
9	Aganippe	805465	7502575
9	Aganippe	805471	7502577
9	Aganippe	805477	7502578
9	Aganippe	805483	7502578
15	Aganippe	807999	7500272
15	Aganippe	808005	7500272

SRE Survey Site	Genus	Easting	Northing
15	Aganippe	808012	7500271
15	Aganippe	808018	7500269
15	Aganippe	808023	7500266
15	Aganippe	808029	7500263
15	Aganippe	808033	7500259
15	Aganippe	808038	7500254
15	Aganippe	808041	7500249
15	Aganippe	808044	7500244
15	Aganippe	808047	7500238
15	Aganippe	808048	7500232
15	Aganippe	808049	7500226
15	Aganippe	808049	7500219
15	Aganippe	808048	7500213
15	Aganippe	808047	7500207
15	Aganippe	808044	7500201
15	Aganippe	808041	7500196
15	Aganippe	808038	7500191
15	Aganippe	808033	7500186
15	Aganippe	808029	7500182
15	Aganippe	808023	7500179
15	Aganippe	808018	7500176
15	Aganippe	808012	7500174
15	Aganippe	808005	7500173
15	Aganippe	807999	7500172
15	Aganippe	807993	7500173
15	Aganippe	807987	7500174
15	Aganippe	807981	7500176
15	Aganippe	807975	7500179
15	Aganippe	807970	7500182
15	Aganippe	807965	7500186
15	Aganippe	807961	7500191
15	Aganippe	807957	7500196
15	Aganippe	807954	7500201
15	Aganippe	807952	7500207
15	Aganippe	807950	7500213
15	Aganippe	807949	7500219
15	Aganippe	807949	7500226
15	Aganippe	807950	7500232
15	Aganippe	807952	7500238
15	Aganippe	807954	7500244

SRE Survey Site	Genus	Easting	Northing
15	Aganippe	807957	7500249
15	Aganippe	807961	7500254
15	Aganippe	807965	7500259
15	Aganippe	807970	7500263
15	Aganippe	807975	7500266
15	Aganippe	807981	7500269
15	Aganippe	807987	7500271
15	Aganippe	807993	7500272
15	Aganippe	807999	7500272
11	Aganippe	805483	7502578
11	Aganippe	805490	7502578
11	Aganippe	805496	7502577
11	Aganippe	805502	7502575
11	Aganippe	805507	7502572
11	Aganippe	805513	7502569
11	Aganippe	805518	7502565
11	Aganippe	805522	7502560
11	Aganippe	805526	7502555
11	Aganippe	805529	7502549
11	Aganippe	805531	7502544
11	Aganippe	805532	7502537
11	Aganippe	805533	7502531
11	Aganippe	805533	7502525
11	Aganippe	805532	7502519
11	Aganippe	805531	7502513
11	Aganippe	805529	7502507
11	Aganippe	805526	7502501
11	Aganippe	805522	7502496
11	Aganippe	805518	7502492
11	Aganippe	805513	7502488
11	Aganippe	805507	7502484
11	Aganippe	805502	7502482
11	Aganippe	805496	7502480
11	Aganippe	805490	7502479
11	Aganippe	805483	7502478
11	Aganippe	805477	7502479
11	Aganippe	805471	7502480
11	Aganippe	805465	7502482
11	Aganippe	805459	7502484
11	Aganippe	805454	7502488

SRE Survey Site	Genus	Easting	Northing
11	Aganippe	805449	7502492
11	Aganippe	805445	7502496
11	Aganippe	805441	7502501
11	Aganippe	805438	7502507
11	Aganippe	805436	7502513
11	Aganippe	805434	7502519
11	Aganippe	805433	7502525
11	Aganippe	805433	7502531
11	Aganippe	805434	7502537
11	Aganippe	805436	7502544
11	Aganippe	805438	7502549
11	Aganippe	805441	7502555
11	Aganippe	805445	7502560
11	Aganippe	805449	7502565
11	Aganippe	805454	7502569
11	Aganippe	805459	7502572
11	Aganippe	805465	7502575
11	Aganippe	805471	7502577
11	Aganippe	805477	7502578
11	Aganippe	805483	7502578
7	Aganippe	802647	7504656
7	Aganippe	802653	7504655
7	Aganippe	802660	7504654
7	Aganippe	802666	7504652
7	Aganippe	802671	7504649
7	Aganippe	802676	7504646
7	Aganippe	802681	7504642
7	Aganippe	802686	7504637
7	Aganippe	802689	7504632
7	Aganippe	802692	7504627
7	Aganippe	802695	7504621
7	Aganippe	802696	7504615
7	Aganippe	802697	7504609
7	Aganippe	802697	7504602
7	Aganippe	802696	7504596
7	Aganippe	802695	7504590
7	Aganippe	802692	7504584
7	Aganippe	802689	7504579
7	Aganippe	802686	7504574
7	Aganippe	802681	7504569

SRE Survey Site	Genus	Easting	Northing
7	Aganippe	802676	7504565
7	Aganippe	802671	7504562
7	Aganippe	802666	7504559
7	Aganippe	802660	7504557
7	Aganippe	802653	7504556
7	Aganippe	802647	7504556
7	Aganippe	802641	7504556
7	Aganippe	802635	7504557
7	Aganippe	802629	7504559
7	Aganippe	802623	7504562
7	Aganippe	802618	7504565
7	Aganippe	802613	7504569
7	Aganippe	802609	7504574
7	Aganippe	802605	7504579
7	Aganippe	802602	7504584
7	Aganippe	802600	7504590
7	Aganippe	802598	7504596
7	Aganippe	802597	7504602
7	Aganippe	802597	7504609
7	Aganippe	802598	7504615
7	Aganippe	802600	7504621
7	Aganippe	802602	7504627
7	Aganippe	802605	7504632
7	Aganippe	802609	7504637
7	Aganippe	802613	7504642
7	Aganippe	802618	7504646
7	Aganippe	802623	7504649
7	Aganippe	802629	7504652
7	Aganippe	802635	7504654
7	Aganippe	802641	7504655
7	Aganippe	802647	7504656
4	Aganippe	795467	7514056
4	Aganippe	795473	7514056
4	Aganippe	795479	7514054
4	Aganippe	795485	7514053
4	Aganippe	795491	7514050
4	Aganippe	795496	7514047
4	Aganippe	795501	7514043
4	Aganippe	795506	7514038
4	Aganippe	795509	7514033

SRE Survey Site	Genus	Easting	Northing
4	Aganippe	795512	7514027
4	Aganippe	795515	7514022
4	Aganippe	795516	7514015
4	Aganippe	795517	7514009
4	Aganippe	795517	7514003
4	Aganippe	795516	7513997
4	Aganippe	795515	7513991
4	Aganippe	795512	7513985
4	Aganippe	795509	7513979
4	Aganippe	795506	7513974
4	Aganippe	795501	7513970
4	Aganippe	795496	7513966
4	Aganippe	795491	7513962
4	Aganippe	795485	7513960
4	Aganippe	795479	7513958
4	Aganippe	795473	7513956
4	Aganippe	795467	7513956
4	Aganippe	795461	7513956
4	Aganippe	795455	7513958
4	Aganippe	795449	7513960
4	Aganippe	795443	7513962
4	Aganippe	795438	7513966
4	Aganippe	795433	7513970
4	Aganippe	795429	7513974
4	Aganippe	795425	7513979
4	Aganippe	795422	7513985
4	Aganippe	795419	7513991
4	Aganippe	795418	7513997
4	Aganippe	795417	7514003
4	Aganippe	795417	7514009
4	Aganippe	795418	7514015
4	Aganippe	795419	7514022
4	Aganippe	795422	7514027
4	Aganippe	795425	7514033
4	Aganippe	795429	7514038
4	Aganippe	795433	7514043
4	Aganippe	795438	7514047
4	Aganippe	795443	7514050
4	Aganippe	795449	7514053
4	Aganippe	795455	7514054

SRE Survey Site	Genus	Easting	Northing
4	Aganippe	795461	7514056
4	Aganippe	795467	7514056
10a	Beierolpium	809743	7509185
10a	Beierolpium	809749	7509185
10a	Beierolpium	809756	7509184
10a	Beierolpium	809762	7509182
10a	Beierolpium	809767	7509179
10a	Beierolpium	809773	7509176
10a	Beierolpium	809777	7509172
10a	Beierolpium	809782	7509167
10a	Beierolpium	809785	7509162
10a	Beierolpium	809788	7509157
10a	Beierolpium	809791	7509151
10a	Beierolpium	809792	7509145
10a	Beierolpium	809793	7509139
10a	Beierolpium	809793	7509132
10a	Beierolpium	809792	7509126
10a	Beierolpium	809791	7509120
10a	Beierolpium	809788	7509114
10a	Beierolpium	809785	7509109
10a	Beierolpium	809782	7509104
10a	Beierolpium	809777	7509099
10a	Beierolpium	809773	7509095
10a	Beierolpium	809767	7509092
10a	Beierolpium	809762	7509089
10a	Beierolpium	809756	7509087
10a	Beierolpium	809749	7509086
10a	Beierolpium	809743	7509085
10a	Beierolpium	809737	7509086
10a	Beierolpium	809731	7509087
10a	Beierolpium	809725	7509089
10a	Beierolpium	809719	7509092
10a	Beierolpium	809714	7509095
10a	Beierolpium	809709	7509099
10a	Beierolpium	809705	7509104
10a	Beierolpium	809701	7509109
10a	Beierolpium	809698	7509114
10a	Beierolpium	809696	7509120
10a	Beierolpium	809694	7509126
10a	Beierolpium	809693	7509132

SRE Survey Site	Genus	Easting	Northing
10a	Beierolpium	809693	7509139
10a	Beierolpium	809694	7509145
10a	Beierolpium	809696	7509151
10a	Beierolpium	809698	7509157
10a	Beierolpium	809701	7509162
10a	Beierolpium	809705	7509167
10a	Beierolpium	809709	7509172
10a	Beierolpium	809714	7509176
10a	Beierolpium	809719	7509179
10a	Beierolpium	809725	7509182
10a	Beierolpium	809731	7509184
10a	Beierolpium	809737	7509185
10a	Beierolpium	809743	7509185
13	Beierolpium	802754	7511189
13	Beierolpium	802760	7511189
13	Beierolpium	802766	7511188
13	Beierolpium	802772	7511186
13	Beierolpium	802778	7511183
13	Beierolpium	802783	7511180
13	Beierolpium	802788	7511176
13	Beierolpium	802792	7511171
13	Beierolpium	802796	7511166
13	Beierolpium	802799	7511161
13	Beierolpium	802801	7511155
13	Beierolpium	802803	7511149
13	Beierolpium	802804	7511142
13	Beierolpium	802804	7511136
13	Beierolpium	802803	7511130
13	Beierolpium	802801	7511124
13	Beierolpium	802799	7511118
13	Beierolpium	802796	7511113
13	Beierolpium	802792	7511107
13	Beierolpium	802788	7511103
13	Beierolpium	802783	7511099
13	Beierolpium	802778	7511096
13	Beierolpium	802772	7511093
13	Beierolpium	802766	7511091
13	Beierolpium	802760	7511090
13	Beierolpium	802754	7511089
13	Beierolpium	802747	7511090

SRE Survey Site	Genus	Easting	Northing
13	Beierolpium	802741	7511091
13	Beierolpium	802735	7511093
13	Beierolpium	802730	7511096
13	Beierolpium	802724	7511099
13	Beierolpium	802719	7511103
13	Beierolpium	802715	7511107
13	Beierolpium	802711	7511113
13	Beierolpium	802708	7511118
13	Beierolpium	802706	7511124
13	Beierolpium	802705	7511130
13	Beierolpium	802704	7511136
13	Beierolpium	802704	7511142
13	Beierolpium	802705	7511149
13	Beierolpium	802706	7511155
13	Beierolpium	802708	7511161
13	Beierolpium	802711	7511166
13	Beierolpium	802715	7511171
13	Beierolpium	802719	7511176
13	Beierolpium	802724	7511180
13	Beierolpium	802730	7511183
13	Beierolpium	802735	7511186
13	Beierolpium	802741	7511188
13	Beierolpium	802747	7511189
13	Beierolpium	802754	7511189

Change to Proposal

Proposal: Roy Hill 1 Iron Ore Mining Project Stage 1, 110 kilometres north of Newman, Shire of East Pilbara

Proponent: Roy Hill Iron Ore Pty Ltd

Change: Revised realignment of Marble Bar Road

Key Characteristics Table:

Element	Description of proposal	Description of approved change to proposal
Mine Life	10 to 15 years	10 to 15 years
Processing Rate	Up to 65 million tonnes per annum (Mt/a) throughput to produce 55 Mt/a ore for export	Up to 65 million tonnes per annum (Mt/a) throughput to produce 55 Mt/a ore for export
Target Grade	60% Iron (average lump or fines) or higher	60% Iron (average lump or fines) or higher
Mineral Resource	Up to 600 Mt from Bedded Marra Mamba Ore	Up to 600 Mt from Bedded Marra Mamba Ore
Strip Ratio	4:1 (average overburden to ore ratio)	4:1 (average overburden to ore ratio)
Area of Disturbance	7,200 hectares (ha) (includes 5,120 ha for mine pits)	7,200 hectares (ha) (includes 5,120 ha for mine pits)
Maximum Pit Depth	100 metres (m) nominal	100 metres (m) nominal
Overburden	2,060 Mt overburden would be used as pit infill with some stored in out of pit dump	2,060 Mt overburden would be used as pit infill with some stored in out of pit dump
Mine Dewatering	Average of 20.5 million litres per day (ML/day)	Average of 20.5 million litres per day (ML/day)
Saline Dewater for Disposal	Dewatering to produce 22,510 million litres (ML) to be disposed of via a 400 ha evaporation pond	Dewatering to produce 22,510 million litres (ML) to be disposed of via a 400 ha evaporation pond
Ore Transport	Not part of this proposal	Not part of this proposal
Water Supply	Water from the mine and advanced dewatering would be used	Water from the mine and advanced dewatering would be used
Greenhouse Gas Emissions	280,000 tonnes CO2-equivelent per annum	280,000 tonnes CO2-equivelent per annum
Realignment of Marble Bar Road	As per Figure 3 attached to Ministerial Statement 824	As per Figure 5 attached to Ministerial Statement 824

List of Figures:

Figure 5: Revised realignment of Marble Bar Road

Dr Paul Vogel CHAIRMAN Environmental Protection Authority under delegated authority

Approval date: 15 December 2010

Figure 5: Revised realignment of Marble Bar Road

Attachment 2 to Ministerial Statement 824

Change to Proposal

Proposal: Roy Hill 1 Iron Ore Mining Project Stage 1, 110 kilometres north of Newman, Shire of East Pilbara

Proponent: Roy Hill Iron Ore Pty Ltd

Change: Change to mining schedule, location of key infrastructure, groundwater drawdown figure and coordinates (this attachment replaces Figure 2, Figure 3, Figure 4 and Figure 5 of Schedule 1, and the table of GIS coordinates in Schedule 2).

Key Characteristics Table:

Element	Description of proposal	Description of approved change to proposal
Mine Life	10 to 15 years	20 years (Stage 1 and 2)
Processing Rate	Up to 65 million tonnes per annum (Mt/a) throughput to produce 55Mt/a ore for export	Up to 65 million tonnes per annum (Mt/a) throughput to produce 55Mt/a ore for export
Target Grade	60% Iron (average lump or fines) or higher	60% Iron (average lump or fines) or higher
Mineral Resource	Up to 600 Mt from Bedded Marra Mamba Ore	Up to 600 Mt from Bedded Marra Mamba Ore
Strip Ratio	4:1 (average overburden to ore ratio)	4:1 (average overburden to ore ratio)
Area of Disturbance	7,200 hectares (ha) (includes 5,120 ha for mine pits)	Up to 7,200 hectares (ha) (includes 5,120 ha for mine pits)
Maximum Pit Depth	100 metres (m) nominal	100 metres (m) nominal
Overburden	2,060 Mt overburden would be used as pit infill with some stored in out of pit dump	2,060 Mt overburden would be used as pit infill with some stored in out of pit dump
Mine Dewatering	Average of 20.5 million litres per day (ML/day)	Average of 20.5 million litres per day (ML/day)
Saline Dewater for Disposal	Dewatering to produce 22,510 million litres (ML) to be disposed of via a 400 ha evaporation pond	Dewatering to produce 22,510 million litres (ML) to be disposed of via a 400 ha evaporation pond
Ore Transport	Not part of this proposal	Removed

Water Supply	Water from the mine and advanced dewatering would be used	Water from the mine and advanced dewatering would be used
Greenhouse Gas	280,000 tonnes CO ₂ -	280,000 tonnes CO ₂ -
Emissions	equivalent per annum	equivalent per annum
Realignment of Marble Bar	As per Figure 5 attached to	As per Figure 5 attached to
Road	Ministerial Statement 824	Ministerial Statement 824

(a) Abbreviations

Bt	billion tonnes	ML	megalitre
ha	hectares	Mt	million tonnes
GL	gigalitre	Mt/a	million tonnes per annum
m	metre		

Note: Text in **bold** in the Key Characteristics Table, indicates change/s to the proposal.

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Figure 6: Mine stages and indicative infrastructure layout Figure 7: Indicative infrastructure layout Figure 8: Short range endemics (SRE) survey sites and exclusion zones

Figure 9: Maximum extent of 2 metre groundwater drawdown

List of Tables:

Schedule 2 MGA coordinates for the maximum extent of 2 metre groundwater drawdown

Dr Paul Vogel CHAIRMAN Environmental Protection Authority under delegated authority

Approval date: 3 February 2012

Figure 6: Mine stages and indicative infrastructure layout

Figure 7: Indicative infrastructure layout

Figure 8: Short range endemics (SRE) survey sites and exclusion zones

Figure 9: Maximum extent of 2 metre groundwater drawdown

MGA coordinates for the maximum extent of 2 metre groundwater drawdown

Coordinate System GDA	1994 MGA Zone 50
Easting	Northing
815985	7498371
816336	7498495
816652	7498679
816922	7498920
817098	7499185
817195	7499480
817218	7499818
817171	7500156
817033	7500527
816676	7501282
816419	7501616
815996	7502096
815730	7502456
814996	7503032
814635	7503452
814189	7503794
813069	7504471
812565	7504866
812262	7505186
811996	7505594
811826	7505707
811493	7505759
810654	7505694
810347	7505602
810167	7505470
809996	7505274
809663	7505651
809140	7506023
808937	7506269
808871	7506478
808890	7506812
808946	7507262
808908	7507476
808687	7507879
808514	7508172
808454	7508371
808469	7508585
808768	7509371
808818	7509702
808750	7511041
808663	7511484
808414	7512260
808399	7512586

808567	7513610
808566	7513964
808482	7514281
808359	7514449
807897	7514771
807305	7515122
806996	7515226
806560	7515239
805884	7515195
804480	7515296
804283	7515371
804090	7515489
803996	7515512
803912	7515491
803286	7515027
802996	7514908
802672	7514883
801996	7514903
801562	7514795
801117	7514661
800739	7514626
800360	7514682
800146	7514002
700006	7514779
799990	7514933
799033	7515571
799750	7515555
799500	7515777
799079	7515904
790002	7516190
790024	7516000
797000	7517123
797100	7517123
790004	751721
790555	7517243
795990	7517591
795751	7517639
795490	7517019
794204	7517190
793491	7510100
190054	1010019
793351	7515527
793070	7514210
/ 93405	7513059
/9381/	7513080
794231	/51244/
/94468	/512243
/9491/	/511965
/95142	/511734
795488	7511289

795886	7510898
795996	7510718
796172	7510054
796398	7509558
796809	7508944
797207	7508371
797654	7507371
798425	7506371
799320	7505371
799820	7504979
800759	7504306
801529	7503704
802230	7503239
803136	7502427
803756	7501914
804065	7501562
804729	7500628
805084	7500250
805582	7499930
806176	7499567
806900	7499060
807485	7498782
808832	7498336
809891	7497762
810210	7497674
811885	7497564
812664	7497572
813442	7497680
814887	7497986
815985	7498371

ATTACHMENT 3 TO STATEMENT 824

NOTICE OF CHANGES TO IMPLEMENTATION CONDITIONS

(section 46C of the Environmental Protection Act 1986)

ROY HILL 1 IRON ORE MINING PROJECT STAGE 1, 110 KILOMETRES NORTH OF NEWMAN, SHIRE OF EAST PILBARA

Pursuant to section 46C(1)(a) of the *Environmental Protection Act 1986*, the implementation conditions applying to the above proposal are changed in accordance with this Notice. I consider these changes to be of a minor nature and desirable in order to standardise conditions relating to different proposals.

[Signed 16 June 2015]

HON ALBERT JACOB MLA MINISTER FOR ENVRIONMENT; HERITAGE

1. Changes to Condition 10

Condition 10-1(6) is deleted, and replaced with:

10-1(6) the coverage of weeds (including both declared weeds and environmental weeds) within the rehabilitation areas shall not exceed that identified in baseline monitoring undertaken prior to commencement of operations, or exceed that existent on comparable, nearby land which has not been disturbed during implementation of the proposal, whichever is less.

Attachment 4 to Ministerial Statement 824

Change to proposal approved under section 45C of the Environmental Protection Act 1986

This Attachment replaces Table 1 in Schedule 1, the Key Characteristics Table in Attachment 1, and the Key Characteristics Table in Attachment 2.

Changes:

- Change to mine dewatering volume and rate
- Change to description of saline water disposal to include use for dust suppression
- Minor changes to units of measurement (volume)

Table 1: Summary of the Proposal

Proposal Title	Roy Hill 1 Iron Ore Mining Project Stage 1
Proponent	Roy Hill Iron Ore Pty Ltd
Short Description	 Mining of Iron Ore from the Stage 1 project area on the southern slopes of the Chichester Range. Development of associated mining infrastructure, realignment of Marble Bar Road, construction of an airfield, rail loop and conveyor, and access roads.

Table 2: Location and authorised extent of physical and operational elements

Element	Location	Previously Authorised Authorised Extent Extent	
Mine life		20 years (Stage 1 and Stage 2)	20 years (Stage 1 and Stage 2)
Processing Rate		Up to 65 Mt/a throughput to produce 55 Mt/a ore for export	Up to 65 Mt/a throughput to produce 55 Mt/a ore for export
Target Grade		60% Iron (average lump or fines) or higher	60% Iron (average lump or fines) or higher
Mineral Resource		Up to 600 Mt from Bedded	Up to 600 Mt from Bedded
Strip Ratio		4:1 (average overburden to ore ratio)	4:1 (average overburden to ore ratio)
Area of Disturbance	Within the Stage 1 Proposal Area as shown in Figure 6	Up to 7,200 ha (includes 5,120 ha for mine pits)	Up to 7,200 ha (includes 5,120 ha for mine pits)
Maximum Pit Depth		100 m nominal	100 m nominal

Element	Location	Previously Authorised Extent	Authorised Extent
Overburden		2,060 Mt overburden would be used as pit infill with some stored in out of pit dump	2,060 Mt overburden would be used as pit infill with some stored in out of pit dump
Mine Dewatering		Average of 20.5 ML/day	286 GL total for Stage 1 and Stage 2
Dewatered Saline Groundwater to be disposed of to Evaporation Ponds		Dewatering to produce 22,510 ML to be disposed of via a 400 ha evaporation pond	Up to 198 GL for Stage 1 and Stage 2
Dewatered Saline Groundwater to be used for dust suppression			Up to 3.7 GL/a for Stage 1 and Stage 2
Water Supply		Water from the mine and advanced dewatering would be used	Water from the mine and advanced dewatering would be used
Greenhouse Gas Emissions		280,000 t CO ₂ equivalent per annum	280,000 t CO ₂ equivalent per annum
Realignment of Marble Bar Road	Figure 1	As per Figure 5 attached to Ministerial Statement 824	As per Figure 5 attached to Ministerial Statement 824

Note: Text in **bold** in Table 2 indicates a change to the proposal.

Table 3: Abbreviations

Abbreviation	Term	Abbreviation	Term
CO ₂	carbon dioxide	ML	megalitres
GL	gigalitres	ML/a	megalitres per annum
GL/a	gigalitres per annum	Mt	million tonnes
ha	hectare	Mt/a	million tonnes per annum
m	metre	t	tonnes

[signed 11 February 2016]

Dr Tom Hatton

CHAIRMAN Environmental Protection Authority under delegated authority

Attachment 5 to Ministerial Statement 824

Change to proposal approved under section 45C of the Environmental Protection Act 1986

This Attachment replaces Table 1 in Schedule 1, the Key Characteristics Table in Attachment 1, the Key Characteristics Table in Attachment 2, Tables 1 and 2 in Attachment 3, and Tables 1 and 2 in Attachment 4, and Inserts Figure 10.

Changes:

• Change to allow for an increase in mine dewatering volumes and Managed Aquifer Recharge reinjection of surplus dewatered groundwater for a trial period of two (2) years.

Table 1: Summary of the Proposal

Proposal Title	Roy Hill 1 Iron Ore Mining Project Stage 1		
Proponent	Roy Hill Iron Ore Pty Ltd		
Short Description	 Mining of Iron Ore from the Stage 1 project area on the southern slopes of the Chichester Range. Development of associated mining infrastructure, realignment of Marble Bar Road, construction of an airfield, rail loop and conveyor, and access roads. 		

Table 2: Location and authorised extent of physical and operational elements

Element	Location	Previously Authorised Authorised Extent	
Mine life	8	20 years (Stage 1 and Stage 2)	20 years (Stage 1 and Stage 2)
Processing Rate		Up to 65 Mt/a throughput to Up to 65 Mt/a through produce 55 Mt/a ore for produce 55 Mt/a c export export	
Target Grade		60% Iron (average lump or fines) or higher	60% Iron (average lump or fines) or higher
Mineral Resource		Up to 600 Mt from Bedded Marra Mamba Ore	Up to 600 Mt from Bedded Marra Mamba Ore
Strip Ratio		4:1 (average overburden to ore ratio)	4:1 (average overburden to ore ratio)
Area of Disturbance	Within the Stage 1 Proposal Area as shown in Figure 6	Up to 7,200 ha (includes 5,120 ha for mine pits)	Up to 7,200 ha (includes 5,120 ha for mine pits)
Maximum Pit Depth		100 m nominal	100 m nominal

Element	Location	Previously Authorised Extent	Authorised Extent
Overburden		2,060 Mt overburden would be used as pit infill with some stored in out of pit dump	2,060 Mt overburden would be used as pit infill with some stored in out of pit dump
Mine Dewatering		286 GL total for Stage 1 and Stage 2	Up to 396 GL total for Stage 1 and Stage 2
Dewatered Saline Groundwater to be disposed of to Evaporation Ponds		Up to 198 GL for Stage 1 and Stage 2	36 GL total for Stage 1 and 2
Dewatered Saline Groundwater to be used for dust suppression		Up to 3.7 GL/a for Stage 1 and Stage 2	Up to 3.7 GL/a for Stage 1 and Stage 2
Dewatered Saline Groundwater (up to – 30,000MG/L TDS) and RO Plant reject water to be disposed to recharge basins and/or reinjection bores	Figure 10	New element	Up to 55 GL per annum for a period of up to 2 years.
vvater Supply		vvater from the mine and advanced dewatering would be used	VVater from the mine and advanced dewatering would be used
Greenhouse Gas Emissions		280,000 t CO₂ equivalent per annum	280,000 t CO ₂ equivalent per annum
Realignment of Marble Bar Road	Figure 1	As per Figure 5 attached to Ministerial Statement 824	As per Figure 5 attached to Ministerial Statement 824

Note: Text in **bold** in Table 2 indicates a change to the proposal.

Table 3: Abbreviations

Abbreviation	Term	Abbreviation	Term
CO ₂	carbon dioxide	ML	megalitres
GL	gigalitres	ML/a	megalitres per annum
GL/a	gigalitres per annum	Mt	million tonnes
ha	hectare	Mt/a	million tonnes per annum
m	metre	t	tonnes

Dr Tom Hatton CHAIRMAN Environmental Protection Authority under delegated authority

Approval date: _____

Ministerial Statements 824 & 829 - Roy Hill 1 Iron Ore Mining Project Stage 1 & 2, 110 Kilometres North of Newman, Shire of East Pilbara

Figure 10: Managed Aquifer Recharge Area and Indicative Recharge Basins

Attachment 6 to Ministerial Statement 824

Change to proposal approved under section 45C of the Environmental Protection Act 1986

This Attachment replaces Table 1 in Schedule 1, the Key Characteristics Table in Attachment 1, the Key Characteristics Table in Attachment 2, Tables 1 and 2 in Attachment 3, Tables 1 and 2 in Attachment 4 and Tables 1 and 2 in Attachment 5.

Proposal: Roy Hill 1 Iron Ore Mining Project Stage 1

Proponent: Roy Hill Iron Ore Pty Ltd

Changes:

• Removal of processing rate.

Table 1: Summary of the Proposal

Proposal Title	Roy Hill 1 Iron Ore Mining Project Stage 1
Short Description	 Mining of Iron Ore from the Stage 1 project area on the southern slopes of the Chichester Range. Development of associated mining infrastructure, realignment of Marble Bar Road, construction of an airfield, rail loop and conveyor, and access roads.

Table 2: Location and authorised extent of physical and operational elements

Element	Location	Previously Authorised Extent	Authorised Extent
Mine Life		20 years (Stage 1 and Stage 2)	20 years (Stage 1 and Stage 2)
Processing Rate		Up to 65 Mt/a throughput to produce 55 Mt/a ore for export	Removed as regulated under Part V of the Environmental Protection Act 1986.
Target Grade		60% Iron (average lump or fines) or higher	60% Iron (average lump or fines) or higher
Mineral Resource		Up to 600 Mt from Bedded Marra Mamba Ore	Up to 600 Mt from Bedded Marra Mamba
			Ore
Strip Ratio		4:1 (average overburden to ore ratio)	4:1 (average overburden to ore ratio)
Area of disturbance	Within the Stage 1 Proposal Area as shown in Figure 6	Up to 7,200 ha (includes 5,120 ha for mine pits)	Up to 7,200 ha (includes 5,120 ha for mine pits)
Maximum Pit Depth		100 m nominal	100 m nominal
Overburden		2,060 Mt overburden would be used as pit infill	2,060 Mt overburden would be used as pit infill

Element	Location	Previously Authorised Extent	Authorised Extent
		with some stored in out of pit dump	with some stored in out of pit dump
Mine Dewatering		Up to 396 GL total for Stage 1 and Stage 2	Up to 396 GL total for Stage 1 and Stage 2
Dewatered Saline Groundwater to be disposed of to Evaporation Ponds		36 GL total for Stage 1 and 2	36 GL total for Stage 1 and 2
Dewatered Saline Groundwater to be used for dust suppression		Up to 3.7 GL/a for Stage 1 and Stage 2	Up to 3.7 GL/a for Stage 1 and Stage 2
Dewatered Saline Groundwater (up to – 30,000MG/L TDS) and RO Plant reject water to be disposed to recharge basins and/or reinjection bores	Figure 10	Up to 55 GL per annum for a period of up to 2 years.	Up to 55 GL per annum for a period of up to 2 years.
Water Supply		Water from the mine and advanced dewatering would be used	Water from the mine and advanced dewatering would be used
Greenhouse Gas Emissions		280,000 t CO2 equivalent per annum	280,000 t CO2 equivalent per annum
Realignment of Marble Bar Road	Figure 1	As per Figure 5 attached to Ministerial Statement 824	As per Figure 5 attached to Ministerial Statement 824

Note: Text in **bold** in Table 2 indicates a change to the proposal.

Table 3: Abbreviations

Abbreviation	Term	Abbreviation	Term
CO2	carbon dioxide	ML	megalitre
GL	gigalitre	ML/a	Megalitres per annum
GL/a	Gigalitres per annum	Mt	million tonnes
ha	hectare	Mt/a	million tonnes per annum
m	metre	t	tonnes

Dr Tom Hatton CHAIRMAN Environmental Protection Authority under delegated authority

Approval date: _____

Attachment 7 to Ministerial Statement 824

Change to proposal approved under section 45C of the Environmental Protection Act 1986

This Attachment replaces Table 1 of Schedule 1, the Key Characteristics Table in Attachment 1, the Key Characteristics Table in Attachment 2, Tables 1, 2 and 3 in Attachment 4, Tables 1, 2 and 3 in Attachment 5, Tables 1, 2 and 3 in Attachment 6, and inserts Figure 11.

Proposal: Roy Hill 1 Iron Ore Mining Project Stage 1

Proponent: Roy Hill Iron Ore Pty Ltd

Changes:

• In-Pit tailings disposal at Zulu 5 Pit

Table 1: Summary of the Proposal

Proposal Title	Roy Hill 1 Iron Ore Mining Project Stage 1
Short Description	 Mining of Iron Ore from the Stage 1 project area on the southern slopes of the Chichester Range. Development of associated mining infrastructure, realignment of Marble Bar Road, construction of an airfield, rail loop and conveyor, and access roads.

Table 2: Location and authorised extent of physical and operational elements

Element	Location	Previously Authorised Extent	Authorised Extent
Mine Life		20 years (Stage 1 and Stage 2)	20 years (Stage 1 and Stage 2)
Processing Rate		Up to 65 Mt/a throughput to produce 55 Mt/a ore for export	Removed as regulated under Part V of the Environmental Protection Act 1986.
Target Grade		60% Iron (average lump or fines) or higher	60% Iron (average lump or fines) or higher
Mineral Resource		Up to 600 Mt from Bedded Marra Mamba Ore	Up to 600 Mt from Bedded Marra Mamba Ore
Strip Ratio		4:1 (average overburden to ore ratio)	4:1 (average overburden to ore ratio)
Area Disturbance	Within the Stage 1 Proposal Area as shown in Figure 6	Up to 7,200 ha (includes 5,120 ha for mine pits)	Up to 7,200 ha (includes 5,120 ha for mine pits)
Maximum Pit Depth		100 m nominal	100 m nominal

Element	Location	Previously Authorised Extent	Authorised Extent
Overburden		2,060 Mt overburden would be used as pit infill with some stored in out of pit dump	2,060 Mt overburden would be used as pit infill with some stored in out of pit dump
In-pit tailings	Zulu 5 Pit	New element	Zulu 5 pit to be utilised
disposal	as		for in-pit disposal of
	shown in		tailings, with tailings to
	Figure 11		be disposed of to a TSF
Mine		Up to 396 GL total for	Up to 396 GL total for
Dewatering		Stage 1 and Stage 2	Stage 1 and Stage 2
Dewatered Saline Groundwater to be disposed of to Evaporation Ponds		36 GL total for Stage 1 and 2	36 GL total for Stage 1 and 2
Dewatered Saline Goundwater to be used for dust suppression		Up to 3.7 GL/a for Stage 1 and Stage 2	Up to 3.7 GL/a for Stage 1 and Stage 2
Dewatered Saline Groundwater (up to 30,000 mg/L TDS) and RO Plant reject water to be disposed to recharge basins and/or reinjection bores	Figure 10	Up to 55 GL per annum for a period of up to 2 years.	Up to 55 GL per annum for a period of up to 2 years.
Water Supply		Water from the mine and advanced dewatering would be used	Water from the mine and advanced dewatering would be used
Greenhouse Gas Emissions		280,000 t CO2 equivalent per annum	280,000 t CO2 equivalent per annum
Realignment of Marble Bar Road	Figure 1	As per Figure 5 attached to Ministerial Statement 824	As per Figure 5 attached to Ministerial Statement 824

Note: Text in **bold** in Table 2 indicates a change to the proposal.

Table 3: Abbreviations

Abbreviation	Term	Abbreviation	Term
CO2	carbon dioxide	mg/L	milligrams per litre
GL/a	gigalitres per annum	ha	Hectare
GL	gigalitre	RO Plant	Reverse Osmosis Plant
ha	hectare	TDS	Total Dissolved Solids
m	metre	m	Metre
mg/L	milligrams per litre	TSF	Tailings Storage Facility

Figure (attached)

Figure 11: Location of Zulu 5 Pit

[Signed 25 March 2019]

Dr Tom Hatton CHAIRMAN Environmental Protection Authority under delegated authority

Figure 11: Location of Zulu 5 Pit

Change to proposal approved under section 45C of the Environmental Protection Act 1986

This Attachment replaces Table 1 in Schedule 1, the Key Characteristics Table in Attachment 1, the Key Characteristics Table in Attachment 2, Tables 1 and 2 in Attachment 4, Tables 1, 2 and 3 in Attachment 5, Tables 1, 2 and 3 in Attachment 6, Tables 1, 2 and 3 in Attachment 7.

Changes:

• Up to three year extension of the current two year reinjection trial disposing of surplus water resulting from mine dewatering, reject water from reverse osmosis plant and decant from Tailings Storage Facilities (TSF), with salinity up to 30,000 mg/L TDS, into recharge basins and/or reinjection bores within the mine tenement.

Table 1:	Summary	of the	Proposal
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Proposal Title	Roy Hill 1 Iron Ore Mining Project Stage 1
Proponent	Roy Hill Iron Ore Pty Ltd
Short Description	 Mining of Iron Ore from the Stage 1 project area on the southern slopes of the Chichester Range. Development of associated mining infrastructure, realignment of Marble Bar Road, construction of an airfield, rail loop and conveyor, and access roads.

Table 2: Location and authorised extent of	ph	ysical a	and o	perational	elements
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Element	Location	Previously Authorised Extent	Authorised Extent
Mine life		20 years (Stage 1 and Stage 2)	20 years (Stage 1 and Stage 2)
Target Grade		60% Iron (average lump or fines) or higher	60% Iron (average lump or fines) or higher
Mineral Resource		Up to 600 Mt from Bedded Marra Mamba Ore	Up to 600 Mt from Bedded Marra Mamba Ore
Strip Ratio		4:1 (average overburden to ore ratio)	4:1 (average overburden to ore ratio)
Area of Disturbance	Within the Stage 1 Proposal Area as shown in Figure 6	Up to 7,200 ha (includes 5,120 ha for mine pits)	Up to 7,200 ha (includes 5,120 ha for mine pits)
Maximum Pit Depth		100 m nominal	100 m nominal

Element	Location	Previously Authorised Extent	Authorised Extent
Overburden		2,060 Mt overburden would be used as pit infill with some stored in out of pit dump	2,060 Mt overburden would be used as pit infill with some stored in out of pit dump
In-pit tailings disposal	Zulu 5 Pit as shown in Figure 11	Zulu 5 pit to be utilised for in-pit disposal of tailings, with tailings to be disposed of to a TSF	Zulu 5 pit to be utilised for in-pit disposal of tailings, with tailings to be disposed of to a TSF
Mine Dewatering		Up to 396 GL total for Stage 1 and Stage 2	Up to 396 GL total for Stage 1 and Stage 2
Dewatered Saline Groundwater to be disposed of to Evaporation Ponds		Up to 396 GL total for Stage 1 and Stage 2	Up to 396 GL total for Stage 1 and Stage 2
Dewatered Saline Groundwater to be used for dust suppression		Up to 3.7 GL/a for Stage 1 and Stage 2	Up to 3.7 GL/a for Stage 1 and Stage 2
Dewatered Saline Groundwater (up to – 30,000MG/L TDS), Reverse Osmosis Plant reject water and Tailing Storage Facility Decant to be disposed to recharge basins and/or reinjection bores	Figure 10	Up to 55 GL per annum for a period of up to 2 years.	Up to 55 GL per annum for an additional period of up to 3 years (total trial of 5 years).
Water Supply		Water from the mine and advanced dewatering would	Water from the mine and advanced dewatering
Greenhouse Gas Emissions		pe used 280,000 t CO ₂ equivalent per appum	280,000 t CO ₂ equivalent
Realignment of Marble Bar Road	Figure 1	As per Figure 5 attached to Ministerial Statement 824	As per Figure 5 attached to Ministerial Statement 824

Note: Text in **bold** in Table 2 indicates a change to the proposal.

Abbreviation	Term	Abbreviation	Term		
CO ₂	carbon dioxide	ML	megalitres		
GL	gigalitres	ML/a	megalitres per annum		
GL/a	gigalitres per annum	MG/L	milligrams per litre		
ha	hectare	Mt	million tonnes		
m	metre	Mt/a	million tonnes per annum		

Table 3: Abbreviations

Signed 30 September 2020

Dr Tom Hatton CHAIRMAN Environmental Protection Authority under delegated authority