

Clearing Permit Decision Report

1. Application details

1.1.	Permit application details					
Permit a	application No.: type:	4032/3	4032/3			
Permit t		Purpose	Purpose			
1.2.	Proponent details					
Propon	nent's name:	Hamers	Hamersley Iron Pty Ltd			
1.3.	Property details					
Property:		Iron Ore Iron Ore	Iron Ore (Hamersley Range) Agreement Act 1963, Mineral Lease 246SA (AML 70/246) Iron Ore (Hamersley Range) Agreement Act 1963, Mineral Lease 4SA (AML 70/4)			
Local Government Area:		Shire of	Shire of Ashburton			
Colloquial name:		Eastern	Eastern Range Project			
1.4.	Application					
Clearing	g Area (ha) No	Trees	Method of Clearing	For the purpose of:		
600			Mechanical Removal	Mineral Production and Associated Activities		
1.5. Decision on application						
Decision on Permit Application:		Grant	Grant			
Decision Date:		22 Janu	22 January 2015			

2. Site Information

2.1. Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description Vegetation within the application areas has been mapped as the following Beard vegetation associations: (GIS Database).

- 82: Hummock grasslands, low tree steppe; snappy gum over Triodia wiseana; and

- 181: Shrublands; mulga and snakewood scrub.

Rio Tinto (2010) defined and mapped a total of 53 vegetation associations within the original permit boundary and these are detailed in Decision Report CPS 4032/2.

Additional surveys were conducted by Rio Tinto (2014) during May, June and July 2014 of the expanded permit boundary. The following 62 intact and two disturbed vegetation units were identified in the additional area:

NFE-1: Acacia aptaneura and Acacia tetragonophylla scattered tall shrubs over Acacia tetragonophylla, Eremophila phyllopoda and Scaevola acacioides open shrubland over Eremophila phyllopoda and E. cuneifolia low open shrubland over Triodia epactia hummock grassland;

NFW-1: Grevillea nematophylla, Acacia aneura and Acacia tetragonophylla tall open shrubland over Acacia tetragonophylla, Scaevola acacioides and Eremophila cryptothrix shrubland over Eremophila cuneifolia and Maireana georgei low open shrubland over Triodia epactia open hummock grassland;

NFW-2: Acacia pruinocarpa and Acacia aneura tall open shrubland over Acacia tetragonophylla, Scaevola acacioides, Acacia synchronicia and Eremophila cryptothrix open shrubland over Eremophila cuneifolia low open shrubland over Triodia epactia hummock grassland;

NF-Aw1: Acacia aptaneura scattered low trees over Acacia wanyu, A. tetragonophylla and A. aptaneura tall shrubland (with scattered Acacia fuscaneura) over Acacia wanyu, A. tetragonophylla and Senna stricta open shrubland over Eremophila cuneifolia, Ptilotus obovatus var. obovatus and Eremophila jucunda scattered low shrubs over Triodia epactia scattered to very open hummock grassland;

NFS-O: Acacia pyrifolia, A. pruinocarpa and Grevillea berryana scattered tall shrubs over A. pyrifolia Senna glutinosa subsp. glutinosa and Senna glutinosa subsp. pruinosa open shrubland over Eremophila cuneifolia, E. cryptothrix and Scaevola acacioides scattered low shrubs over Triodia wiseana hummock grassland;

NV-Eo: Acacia aptaneura and Grevillea saxicola scattered to low open woodland over Eremophila oppositifolia subsp. angustifolia tall shrubland (with scattered Acacia pruinocarpa) over Eremophila oppositifolia subsp. angustifolia, E. latrobei subsp. latrobei and Scaevola acacioides open shrubland over Ptilotus obovatus var. obovatus and Maireana melanocoma scattered to low open shrubland;

NV-SBB: Acacia macraneura, A. aptaneura, A. pruinocarpa and Grevillea saxicola tall shrubland over Eremophila latrobei subsp. latrobei, Dodonaea petiolaris and Acacia tetragonophylla shrubland over Dodonaea petiolaris, Ptilotus obovatus var. obovatus and Solanum piceum low open shrubland (to low shrubland in places) over Eriachne mucronata very open tussock grassland;

NV-M: Acacia aptaneura, A. macraneura and A. aneura (with scattered Grevillea berryana and Acacia rhodophloia) tall shrubland (to tall open scrub) over Eremophila latrobei subsp. latrobei scattered shrubs over Dodonaea petiolaris, Eremophila jucunda and Ptilotus schwartzii scattered low shrubs (to low open shrubland in places);

NV-MP: Grevillea berryana, Acacia macraneura and Corymbia ferriticola scattered low trees over Acacia macraneura, A. aptaneura and A. rhodophloia tall shrubland (to tall open scrub) over Eremophila latrobei subsp. latrobei, Prostanthera campbellii, Dodonaea petiolaris and Acacia thoma open shrubland over Eremophila fraseri, E. jucunda and Sida sp. Golden calyces glabrous (H.N. Foote 32) scattered to low open shrubland;

NFM: Acacia aptaneura low woodland over Acacia tetragonophylla and A. rhodophloia tall shrubland (with scattered Grevillea saxicola), over Eremophila cuneifolia, Scaevola acacioides and Senna glutinosa subsp. X luerssenii scattered shrubs over Senna stricta, Tribulus suberosus and Maireana thesioides low open shrubland (to scattered low shrubs);

NV-SGs: Acacia macraneura, A. aptaneura, A. citrinoviridis and Grevillea saxicola low open woodland (to low woodland) over Acacia pruinocarpa, A. tetragonophylla and A. rhodophloia tall open shrubland over Eremophila latrobei subsp. latrobei, Acacia synchronicia and Senna glutinosa subsp. glutinosa scattered shrubs over Ptilotus obovatus var. obovatus, Eremophila jucunda and mixed chenopod (typically Maireana and Sclerolaena spp.) low open shrubland over Triodia epactia open hummock grassland;

N/S-SIL: Grevillea saxicola, Acacia pruinocarpa and Acacia aptaneura low open woodland over Acacia pruinocarpa, A. pyrifolia and A. tetragonophylla tall open shrubland over Eremophila cryptothrix, Senna glutinosa subsp. glutinosa and Scaevola acacioides (with scattered Eremophila platycalyx subsp. pardalota) scattered to low open shrubland over Triodia epactia hummock grassland;

N/S-SIL-BRW: Grevillea saxicola, Acacia pruinocarpa and A. pyrifolia scattered tall shrubs (to tall open shrubland) over Eremophila cryptothrix, Acacia tetragonophylla and Senna glutinosa subsp. glutinosa open shrubland over Ptilotus obovatus, Corchorus crozophorifolius and Solanum horridum low open shrubland (to low shrubland in places) over Triodia wiseana and Triodia epactia very open hummock grassland over Cymbopogon ambiguus scattered tussock grasses;

P-XIP: Grevillea saxicola, Acacia aptaneura and A. fuscaneura scattered low trees (to low open woodland) over Acacia xiphophylla tall open shrubland (to tall shrubland in places) over Acacia tetragonophylla and Senna glutinosa subsp. X luerssenii scattered shrubs (to open shrubland) over Senna stricta, Ptilotus obovatus, and mixed chenopods (Maireana and Sclerolaena spp.) low open shrubland (with patches of Frankenia setosa low open shrubland);

P-XIP-Td: Acacia xiphophylla and A. aptaneura tall open shrubland (to tall scattered shrubs) over Acacia synchronicia, Senna glutinosa subsp. X luerssenii and Senna stricta scattered shrubs over Tecticornia disarticulata low shrubland (to low open heath) over Triodia epactia scattered hummock grasses;

NV-Tw: Acacia aptaneura, A. fuscaneura, Acacia pruinocarpa and A. xiphophylla tall open shrubland over Acacia tetragonophylla A. synchronicia, Senna glutinosa subsp. glutinosa, Acacia pyrifolia open shrubland over Senna artemisioides subsp. oligophylla and Eremophila cuneifolia scattered low shrubs (to low open shrubland) over Triodia wiseana hummock grassland (to open hummock grassland);

NVD-2: Acacia aptaneura and Grevillea saxicola scattered low trees (to low open woodland) over Acacia xiphophylla and Acacia aptaneura tall shrubland over Acacia tetragonophylla, Senna artemisioides subsp. oligophylla and Hibiscus sp. Canga (P.J.H. Hurter & J. Naaykens 11013) open shrubland (to scattered shrubs) over Senna stricta, Jasminum didymum subsp. lineare, Enchylaena tomentosa and Ptilotus obovatus var. obovatus scattered low shrubs (to low open shrubland) over Triodia epactia scattered hummock grassland;

NFD-1: Acacia aptaneura low woodland over A. aptaneura and Acacia tetragonophylla tall open shrubland over Acacia tetragonophylla, Eremophila latrobei and E. cryptothrix open shrubland over Corchorus crozophorifolius and Ptilotus obovatus var. obovatus low open shrubland over Triodia epactia open hummock grassland;

NFD-1-EL: *Eucalyptus leucophloia* and *Acacia aneura* low woodland over *Acacia aneura* and *A. tetragonophylla* tall open shrubland over *Acacia tetragonophylla, Eremophila latrobei* and *E. cryptothrix* open shrubland over *Corchorus crozophorifolius* and *Ptilotus obovatus* low open shrubland over *Triodia epactia* open hummock grassland;

NFD-3: Acacia citrinoviridis and Grevillea saxicola low open woodland (to low woodland) over Acacia citrinoviridis and *A. xiphophylla* tall open shrubland over *Hibiscus* sp. Canga (P.J.H. Hurter & J. Naaykens 11013), Santalum lanceolatum, Dodonaea pachyneura and Eremophila cryptothrix open shrubland over Senna artemisioides subsp. oligophylla, Corchorus crozophorifolius, Ptilotus obovatus var. obovatus and Solanum piceum low open shrubland (to scattered low shrubs) over *Triodia epactia* very open hummock grassland;

NFD-3L: Acacia citrinoviridis and Grevillea saxicola low woodland (with scattered Eucalyptus leucophloia) over Acacia citrinoviridis tall open shrubland over Hibiscus sp. Canga (P.J.H. Hurter & J. Naaykens 11013), Rhagodia eremaea and Jasminum didymum subsp. lineare open shrubland over Senna stricta, Corchorus crozophorifolius and Ptilotus obovatus var. obovatus low open shrubland over Triodia epactia very open hummock grassland over Eriachne mucronata and *Cenchrus ciliaris very open tussock grassland;

NVD-1: Acacia citrinoviridis, Grevillea saxicola and Corymbia ferriticola low open woodland over Acacia aptaneura, A. citrinoviridis and A. rhodophloia tall shrubland over Hibiscus sp. Canga (P.J.H. Hurter & J. Naaykens 11013), Dodonaea pachyneura and Acacia tetragonophylla open shrubland over Ptilotus obovatus var. obovatus and Enchylaena tomentosa scattered low shrubs;

NFD-5: Acacia citrinoviridis, A. pruinocarpa and Grevillea berryana scattered tall shrubs (to tall open shrubland) over Eremophila cryptothrix, Acacia pyrifolia and Senna glutinosa subsp. glutinosa open shrubland (to shrubland) over Ptilotus obovatus, *Aerva javanica and Corchorus laniflorus low open shrubland over Triodia epactia and T.

wiseana very open hummock grassland;

NVD-Eo: Acacia aptaneura and Grevillea saxicola scattered low trees over Eremophila oppositifolia subsp. angustifolia and Acacia aptaneura tall shrubland over Acacia tetragonophylla, Eremophila latrobei subsp. latrobei and Santalum lanceolatum open shrubland over Ptilotus obovatus, Maireana melanocoma and Enchylaena tomentosa scattered low shrubs (to low open shrubland) over Eriachne mucronata and Cymbopogon ambiguus very open tussock grassland;

WF-1: Acacia pyrifolia scattered (to isolated) tall shrubs over Acacia pyrifolia, A. tetragonophylla and mixed Eremophila and Senna spp. open shrubland (to scattered shrubs) over Senna artemisioides subsp. oligophylla scattered low shrubs over Triodia epactia hummock grassland;

WF-2: Hakea lorea, Acacia pyrifolia and A. pruinocarpa scattered tall shrubs over Acacia pyrifolia, Eremophila fraseri and mixed Senna spp. open shrubland (to scattered shrubs) over Scaevola spinescens, mixed Senna and Eremophila spp. scattered to low open shrubland over Triodia epactia open hummock grassland;

WF-RP: Acacia citrinoviridis, A. pruinocarpa, A. coriacea subsp. pendens and Clerodendrum floribundum scattered low trees over Acacia pyrifolia, A. tetragonophylla and A. pruinocarpa scattered tall shrubs over Senna artemisioides subsp. oligophylla, Eremophila fraseri, E. longifolia and Jasminum didymum subsp. lineare scattered to open shrubland over Abutilon sp. Dioicum (A.A. Mitchell PRP 1618), Ptilotus obovatus var. obovatus and Corchorus laniflorus scattered to low open shrubland over Triodia epactia very open hummock grassland over Cymbopogon ambiguus scattered to very open tussock grassland;

WFD-1: Acacia pyrifolia scattered tall shrubs (with isolated Acacia pruinocarpa) over Acacia pyrifolia, A. tetragonophylla, Senna artemisioides subsp. oligophylla and Senna artemisioides subsp. helmsii scattered to open shrubland over Indigofera monophylla, Corchorus crozophorifolius and Ptilotus obovatus low open shrubland over Triodia epactia open hummock grassland over Eriachne mucronata and Cymbopogon ambiguus very open tussock grassland;

WFD-2: Acacia citrinoviridis low open woodland over Acacia citrinoviridis and A. pyrifolia tall open shrubland (to tall shrubland) over Senna artemisioides subsp. oligophylla, Eremophila fraseri and Acacia tetragonophylla shrubland over Senna artemisioides subsp. helmsii, Ptilotus obovatus var. obovatus, Scaevola acacioides and Hybanthus aurantiacus low open shrubland over Triodia epactia very open hummock grassland over *Cenchrus ciliaris open tussock grassland;

SWV-D1: Acacia aptaneura low open woodland (with scattered A. aneura) over Acacia wanyu tall open shrubland (to tall shrubland) over Acacia tetragonophylla, Eremophila longifolia and Dodonaea petiolaris open shrubland over Eremophila cuneifolia, Ptilotus obovatus var. obovatus and Abutilon lepidum scattered low shrubs over Triodia epactia open hummock grassland (to hummock grassland) over *Cenchrus ciliaris very open tussock grassland;

NW-VF: Acacia pruinocarpa and A. fuscaneura isolated low trees over Acacia citrinoviridis, A. tetragonophylla and A. pyrifolia tall open shrubland over Eremophila fraseri and Eremophila cuneifolia open shrubland over Senna artemisioides subsp. oligophylla low open shrubland over Triodia epactia open hummock grassland;

WV-Ms: Acacia aptaneura and A. pruinocarpa scattered low trees over Acacia wanyu and A. aptaneura tall open shrubland (with A. fuscaneura) over Acacia tetragonophylla, Senna artemisioides subsp. oligophylla, and Eremophila phyllopoda open shrubland over Senna stricta, Ptilotus obovatus var. obovatus and Eremophila cuneifolia scattered low shrubs (to low open shrubland) over Triodia epactia open hummock grassland;

SWV1: Acacia aptaneura scattered low trees over Acacia wanyu and A. xiphophylla tall open shrubland over Acacia synchronicia, A. tetragonophylla, Senna artemisioides subsp. helmsii, Senna artemisioides subsp. oligophylla open shrubland (to scattered shrubs), over Senna stricta, Eremophila cuneifolia and Ptilotus schwartzii scattered low shrubs over Triodia epactia scattered (to very open) hummock grasses;

RLow1: Acacia aptaneura isolated low trees over Acacia tetragonophylla, A. pruinocarpa and A. pyrifolia scattered to tall open shrubland over Senna artemisioides subsp. oligophylla and Eremophila fraseri scattered to open shrubland over Eremophila cuneifolia and E. phyllopoda scattered low shrubs over Triodia epactia very open hummock grassland;

NSHG: Acacia pruinocarpa, A. macraneura and Grevillea berryana scattered tall shrubs (to tall open shrubland in places) over mixed Eremophila and Senna spp. scattered shrubs (typically dominated by Eremophila phyllopoda, Senna glutinosa subsp. glutinosa and S. glutinosa subsp. X luerssenii) over Eremophila exilifolia, E. fraseri and E. jucunda low open shrubland to low shrubland over Triodia epactia open hummock grassland;

SF-AcAr: Grevillea berryana and Acacia aptaneura low open woodland over Acacia rhodophloia and A. citrinoviridis tall shrubland over Acacia tetragonophylla, A. rhodophloia and Eremophila phyllopoda open shrubland over Triodia epactia open hummock grassland;

SF-AmAA: Acacia macraneura and Grevillea berryana scattered shrubs to low open woodland over Acacia macraneura, A. pruinocarpa and A. rhodophloia (with scattered A. aptaneura and A. pteraneura) tall open shrubland over Acacia tetragonophylla, A. rhodophloia X sibirica, and Senna glutinosa subsp. glutinosa scattered shrubs (to open shrubland) over Eremophila fraseri, E. exilifolia and E. jucunda low open shrubland (to low shrubland) over Triodia epactia hummock grassland;

PC-o2: Acacia citrinoviridis, A. pyrifolia and A. aneura scattered low trees over Eremophila longifolia, Acacia citrinoviridis and Santalum lanceolatum tall open shrubland over Eremophila longifolia, Jasminum didymum and Corchorus crozophorifolius shrubland over Triodia epactia open hummock grassland;

BigC-2: Acacia citrinoviridis and Eucalyptus leucophloia and Corymbia ferriticola open woodland (to low open woodland) over Acacia citrinoviridis and A. pruinocarpa tall shrubland over Dodonaea pachyneura, Eremophila latrobei and Jasminum didymum shrubland over Ptilotus obovatus and Corchorus crozophorifolius low open shrubland over Triodia epactia very open hummock grassland;

ML-D: Acacia citrinoviridis and A. aptaneura low open woodland over Acacia citrinoviridis, A aptaneura and A. tetragonophylla tall shrubland over Acacia rhodophloia, Eremophila latrobei subsp. latrobei and Dodonaea pachyneura open shrubland over Ptilotus obovatus var. obovatus, Eremophila phyllopoda and E. cuneifolia scattered to low open shrubland over Triodia epactia open hummock grassland over Eriachne mucronata and Cymbopogon ambiguus scattered tussock grasses;

PM-HG: Acacia pruinocarpa and Grevillea berryana scattered low trees over Acacia aptaneura (with scattered A. macraneura and A. aneura) and A. rhodophloia tall open shrubland (to tall shrubland) over Acacia tetragonophylla and Eremophila latrobei subsp. latrobei and E. fraseri open shrubland over mixed Eremophila spp. scattered to low open shrubland over Triodia epactia open hummock grassland (to hummock grassland);

PM-HG-Te: Acacia aptaneura, A. rhodophloia, A. pruinocarpa and A. tetragonophylla scattered to isolated shrubs (to tall shrubs) over mixed Senna and Eremophila spp. scattered low shrubs over Triodia epactia hummock grassland;

PM1: Grevillea berryana and Acacia aptaneura scattered low trees over Acacia aptaneura, A. rhodophloia (with scattered A. macraneura and A. aneura) tall shrubland over Acacia tetragonophylla, Eremophila fraseri and E. phyllopoda open shrubland over Tribulus suberosus and Ptilotus schwartzii scattered to low open shrubland;

BRW-2: Acacia aptaneura and Corymbia ferriticola scattered low trees over Acacia aptaneura A. fuscaneura and A. rhodophloia tall shrubland over Acacia tetragonophylla, Eremophila latrobei subsp. latrobei and Dodonaea petiolaris open shrubland over Senna stricta, Eremophila exilifolia, E. fraseri and Ptilotus obovatus var. obovatus scattered to low open shrubland over Triodia epactia scattered to very open hummock grassland;

PC2: Acacia citrinoviridis and A. aptaneura (with scattered Corymbia ferriticola) low open woodland over Acacia aptaneura, A macraneura, A. citrinoviridis and Acacia rhodophloia tall shrubland over Hibiscus sp. Canga (P.J.H. Hurter & J. Naaykens 11013), Eremophila latrobei subsp. latrobei and Dodonaea pachyneura open shrubland (to shrubland) over Eremophila exilifolia, E. jucunda, and Ptilotus obovatus var. obovatus scattered to low open shrubland over Triodia epactia open hummock grassland over Cymbopogon ambiguus, and Eriachne mucronata scattered tussock grasses;

PC3: Acacia citrinoviridis low woodland over Acacia citrinoviridis and A. pyrifolia tall open shrubland (to tall shrubland) over Petalostylis labicheoides, Senna artemisioides subsp. oligophylla, Eremophila fraseri and Hibiscus sp. Canga (P.J.H. Hurter & J. Naaykens 11013) open shrubland over Ptilotus obovatus var. obovatus, Corchorus crozophorifolius, Indigofera monophylla and Tephrosia rosea var. Fortescue creeks (M.I.H. Brooker 2186) low open shrubland (to low shrubland) over Triodia epactia very open hummock grassland;

Hm1: Acacia aptaneura and Grevillea berryana scattered to low open woodland over Acacia aptaneura, A. rhodophloia, A. pruinocarpa and A. thoma tall shrubland (with scattered A. fuscaneura, A. incurvaneura and A. pteraneura) over Acacia tetragonophylla, Eremophila fraseri and Psydrax latifolia open shrubland over Eremophila jucunda, Tribulus suberosus and Ptilotus schwartzii scattered to low open shrubland over Triodia epactia very open hummock grassland;

UR/RS-Ap: Acacia pruinocarpa and Grevillea berryana scattered low trees over Acacia aptaneura, A. rhodophloia, A. pruinocarpa and Grevillea berryana tall open shrubland (to tall shrubland - with scattered Acacia fuscaneura, A. incurvaneura and A. pteraneura) over Acacia tetragonophylla and A. rhodophloia scattered to open shrubland over Eremophila fraseri low open shrubland (with scattered Eremophila exilifolia and E. jucunda) over Triodia epactia open hummock grassland;

UR-RSSG-Aa: Acacia macraneura low open woodland (to low woodland in places) over Acacia macraneura, A. rhodophloia and Grevillea berryana tall open shrubland (to tall shrubland including scattered Acacia aptaneura and A. pteraneura) over Acacia tetragonophylla, Eremophila fraseri, and Senna glutinosa subsp. glutinosa open shrubland over Eremophila jucunda low open shrubland over Triodia epactia scattered to very open hummock grassland;

UR/RS-ApEI: *Eucalyptus leucophloia* scattered low trees over *Acacia pruinocarpa, A. rhodophloia, A. citrinoviridis,* and *A. macraneura* scattered to tall open shrubland over *Senna glutinosa* subsp. *glutinosa, Acacia rhodophloia* X *sibirica* and *A. maitlandii* open shrubland over *Eremophila jucunda* and other mixed *Eremophila* spp. scattered to low open shrubland over *Triodia epactia* hummock grassland;

UR/RSS-2: Eucalyptus leucophloia scattered low trees over Acacia pruinocarpa, A. pyrifolia and Petalostylis labicheoides scattered tall shrubs over Petalostylis labicheoides, Senna glutinosa subsp. glutinosa, Acacia pyrifolia and A. maitlandii open shrubland (to shrubland in places) over Eremophila fraseri, E. canaliculata and E. exilifolia scattered to low open shrubland over Triodia epactia very open hummock grassland;

BRW-1N: Acacia pruinocarpa and Grevillea berryana scattered tall shrubs over Acacia pruinocarpa, Eremophila cryptothrix, Astrotricha hamptonii and Scaevola acacioides scattered to open shrubland over Eremophila jucunda, E. exilifolia and Ptilotus obovatus var. obovatus scattered to low open shrubland over Triodia epactia very open hummock grassland over Eriachne mucronata scattered to open tussock grassland;

BRW-1S: Corymbia ferriticola scattered low trees over Acacia citrinoviridis and A. pruinocarpa scattered to tall open shrubland over Hibiscus sp. Canga (P.J.H. Hurter & J. Naaykens 11013), Dodonaea pachyneura and Astrotricha hamptonii open shrubland to shrubland over Eremophila fraseri, Ptilotus obovatus var. obovatus, Solanum piceum and Sida sp. Golden calyces glabrous (H.N. Foote 32) low open shrubland (to scattered shrubs) over Triodia epactia very open hummock grassland over Eriachne mucronata scattered to open tussock grassland;

SCRE: Steep scree slopes with little to negligible vegetation. Often positioned below significant breakaway features;

SNS-HG-1: Acacia pruinocarpa and Grevillea berryana scattered tall shrubs over Eremophila cryptothrix, Scaevola acacioides and Acacia tetragonophylla scattered shrubs over mixed scattered low shrubs (typically dominated by

	Eremophila fraseri, E. cuneifolia, E. phyllopoda, E. exilifolia, and Ptilotus obovatus) over Triodia epactia hummock grassland over scattered Eriachne mucronata tussock grassland;
	CDV1: Eucalyptus leucophloia isolated low trees over Acacia pruinocarpa and A. citrinoviridis tall open shrubland over Eremophila phyllopoda, E. fraseri and Dodonaea pachyneura open shrubland over Eremophila phyllopoda and E. fraseri scattered low shrubs over Triodia epactia hummock grassland;
	E/La: Eucalyptus leucophloia low open woodland over Acacia aptaneura and A. citrinoviridis scattered tall shrubs over Senna glutinosa subsp. glutinosa, Acacia tetragonophylla and Scaevola acacioides scattered to open shrubland over Eremophila fraseri, E. phyllopoda, E. cuneifolia and Ptilotus obovatus low open shrubland over Triodia epactia hummock grassland;
	UR-DBV: Corymbia ferriticola, Grevillea berryana and Acacia citrinoviridis low open woodland over Acacia citrinoviridis tall open shrubland over Hibiscus sp. Canga (P.J.H. Hurter & J. Naaykens 11013), Dodonaea pachyneura, Eremophila latrobei subsp. latrobei, E. fraseri, and Astrotricha hamptonii shrubland (to open shrubland - often with patches of Prostanthera campbellii in higher altitude areas) over Ptilotus obovatus var. obovatus and Sida sp. Golden calyces glabrous (H.N. Foote 32) low open shrubland (with outcrops of Prostanthera albiflora, Solanum piceum and Eremophila jucunda) over Triodia epactia very open hummock grassland;
	UR-DG-o1: Corymbia ferriticola and Acacia pruinocarpa scattered to low open woodland (with isolated <i>Eucalyptus leucophloia</i>) over Acacia citrinoviridis and A. pruinocarpa tall open shrubland over <i>Hibiscus</i> sp. Canga (P.J.H. Hurter & J. Naaykens 11013), Acacia tetragonophylla, Eremophila latrobei subsp. latrobei, E. cryptothrix and Dodonaea pachyneura open shrubland over Eremophila phyllopoda, Ptilotus obovatus var. obovatus and Eremophila jucunda scattered to low open shrubland over Triodia epactia very open hummock grassland over Eriachne mucronata and Cymbopogon ambiguus scattered to very open tussock grassland;
	UR-DG-o2: Corymbia ferriticola scattered to low open woodland over Acacia citrinoviridis tall open shrubland over Hibiscus sp. Canga (P.J.H. Hurter & J. Naaykens 11013), Eremophila latrobei subsp. latrobei, and Dodonaea pachyneura open shrubland to shrubland over Ptilotus obovatus var. obovatus, Eremophila fraseri, E. exilifolia, E. cryptothrix, Sida sp. Golden calyces glabrous (H.N. Foote 32) and Pluchea dentex scattered to low open shrubland over Triodia epactia scattered to very open hummock grassland over Aristida burbidgeae, Cymbopogon ambiguus, and Eriachne mucronata scattered to very open tussock grassland;
	UR-DG-o2E: Corymbia ferriticola, Acacia citrinoviridis and Clerodendrum floribundum low open woodland over Acacia citrinoviridis tall open shrubland (with scattered <i>Ficus brachypoda</i>) over <i>Hibiscus</i> sp. Canga (P.J.H. Hurter & J. Naaykens 11013), Eremophila latrobei subsp. latrobei, E. fraseri and Dodonaea pachyneura open shrubland over <i>Ptilotus obovatus</i> var. obovatus and Eremophila fraseri low open shrubland (with patches of <i>Prostanthera</i> <i>campbellii, P. albiflora, Eremophila exilifolia, E. cryptothrix, Sida</i> sp. Golden calyces glabrous (H.N. Foote 32)), over <i>Triodia epactia</i> very open hummock grassland over <i>Aristida burbidgeae, Cymbopogon ambiguus</i> and <i>Eriachne mucronata</i> scattered to very open tussock grassland;
	UR-DG-Elb: <i>Eucalyptus leucophloia</i> low open woodland (to scattered low trees) over <i>Acacia citrinoviridis, A. pruinocarpa</i> and <i>Acacia pyrifolia</i> tall open shrubland over <i>Acacia citrinoviridis, Hibiscus</i> sp. Canga (P.J.H. Hurter & J. Naaykens 11013), <i>Dodonaea pachyneura</i> , and <i>Santalum lanceolatum</i> open shrubland, over <i>Eremophila fraseri</i> , <i>Jasminum didymum</i> subsp. <i>lineare, Ptilotus obovatus</i> var. <i>obovatus</i> and <i>Corchorus crozophorifolius</i> scattered to low open shrubland over <i>Triodia epactia</i> very open to open hummock grassland over <i>Eriachne mucronata</i> and <i>Cymbopogon ambiguus</i> very open tussock grassland;
	HD-BG: Essentially devoid of vegetation. Only scattered low shrubs and tussock grasses present in some places;
	HD-RE: Rehabilitation – vegetation which has been previously cleared and is now formally in the process of rehabilitation. Consists of regrowth at various ages.
Clearing Description	Eastern Range Project. Hamersley Iron Pty Ltd proposes to clear up to 600 hectares of native vegetation within a boundary of approximately 3,914 hectares for the purpose of mineral production. The project is located approximately 5 kilometres south of Paraburdoo within the Shire of Ashburton.
Vegetation Condition	Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery, 1994);
	То
	Pristine: No obvious signs of disturbance (Keighery, 1994).
Comment	The vegetation condition was converted from Trudgen (1988) to Keighery (1994).
	The proposed clearing will enable the ongoing mining operations at the Eastern Range Project. Vegetation will be cleared for open pits, waste dumps, stockpiles, haul roads and other related infrastructure (Hamersley Iron, 2010). Topsoil and vegetation from cleared areas will be stockpiled for use in later rehabilitation.
	The majority of the additional area appears to have not been burnt for over ten years (Rio Tinto, 2014).
	Clearing permit CPS 4032/1 was granted on 17 March 2011 authorising the clearing of 450 hectares within a boundary of 1,738 hectares. This permit was amended on 24 October 2013 to change the definition of local provenance in Condition 6(c)(ii) of the permit to reflect the current standard wording of the definition. Hamersely Iron Pty Ltd has applied to increase the amount of clearing authorised to 600 hectares and increase the permit boundary to 3,914 hectares. They have also requested that the duration of clearing is extended to 31 December 2022. The permit boundary has been extended to cover the area previously covered by CPS 235/1.

3. Assessment of application against clearing principles

Comments

Hamersley Iron Pty Ltd has applied to increase the amount of clearing authorised by 150 hectares and the permit boundary by an additional 1,681 hectares. They have also requested that the permit expiry date is extended by a further six years. The increased clearing area was previously approved under clearing permit CPS 235/1.

There were 62 intact vegetation units identified within the additional area of which 36 were previously mapped within the original permit boundary (Rio Tinto, 2014). The majority of the vegetation was in 'pristine' condition with the predominant disturbances in the additional area being from exploration activities and dust from adjacent mining activities (Rio Tinto, 2014). None of the vegetation associations within the additional area are considered a Threatened or Priority Ecological Community (GIS Database; Rio Tinto, 2014). All of the vegetation units are considered to be well represented in the local region (Rio Tinto, 2014).

The flora survey of the additional area recorded a total of 238 flora taxa from 100 genera and 41 families (Rio Tinto, 2014). This number is greater than that recorded in the original permit boundary, however, compared to other surveys in the area of a similar size, the additional area contains a relatively average number of flora species (Rio Tinto, 2014). No species of Threatened flora have been recorded within the additional area (GIS Database; Rio Tinto, 2014). Suitable habitat was present for two Threatened flora species. Targeted searches were undertaken within this habitat and it was considered unlikely that those species are present in the permit boundary (Rio Tinto, 2014).

The following five Priority flora species were recorded during the flora survey of the additional area; *Hibiscus* sp. Canga (Priority 1), *Eremophila* sp. Hamersley Range (Priority 1), *Grevillea saxicola* (Priority 3), *Sida* sp. Barlee Range (Priority 3) and *Solanum octonum* (Priority 2). *Hibiscus* sp. Canga was found throughout the additional area and was recorded from 169 locations (Rio Tinto, 2014). This species was deemed to occur in such high numbers and frequencies that total numbers were not recorded during the flora survey (Rio Tinto, 2014). This species is known to occur in similar densities on similar habitat between ranges at Paraburdoo and 20 kilometres east of Channar (Rio Tinto, 2014). A targeted search for this species was also conducted within a 40 kilometre radius of the permit boundary. This search found that the species occurs in high numbers throughout the range and was commonly found within marginal, non-typical and unexpected habitats as well as in core habitat (Rio Tinto, 2014). Given this species occurs in such high numbers and appears to utilise a variety of habitats, there will still be a large population present in the local area following the proposed clearing. Therefore, the proposed clearing is not expected to have a significant impact on this species.

Eremophila sp. Hamersley Range was recorded from one location within a creek of the BigC-2 vegetation unit (Rio Tinto, 2014). There is a significantly sized population upstream of this location outside of the permit boundary and there is likely to be other individuals scattered within the creekline in the permit area (Rio Tinto, 2014). Apart from this area this species is believed to be restricted to deeply incised gullies in the original permit boundary. Conditions have been previously placed on the permit restricting clearing within gorge habitats.

Grevillea saxicola was recorded from 75 locations within the additional area (Rio Tinto, 2014). Similar to *Hibiscus* sp. Canga, numbers of individuals were not recorded as this species was present in high numbers mainly in the north of the additional area (Rio Tinto, 2014). This species is known to occur from west of Newman to the Mount Brockman and Paraburdoo localities. There is not a large amount of proposed clearing within the preferred habitat of this species in the north of the permit boundary (Rio Tinto, 2014). The proposed clearing is not expected to have a significant impact on this species in the local area.

Sida sp. Barlee Range was recorded at 14 locations within the additional area, although given its propensity to inhabit cliff faces and steep gullies it is likely that there are further locations that were not observed during the flora survey (Rio Tinto, 2014). It was also recorded within the original permit boundary. This species in found throughout the southern Pilbara from Newman to Mt Sheila (Western Australian Herbarium, 2014). Records also exist from the northern Gascoyne region. The proposed clearing is not likely to have a significant impact on this species.

There were six records of *Solanum octonum* within the additional area (Rio Tinto, 2014). This species was previously only known from Barlee Range in the Gascoyne but has since been found within the Hamersley Range near Channar and the records within the permit boundary (Rio Tinto, 2014). This species is similar to the species *Solanum piceum* which is common in the permit area (Rio Tinto, 2014). The two species differ by characteristics of the stellate hairs which make identification in the field difficult. Given the difficulties in identification it is likely that this species is present in higher numbers than what was recorded. The distribution of this species was from within a large gully system in the north-east corner of the additional area (Rio Tinto, 2014). Impacts to this species may be minimised by extending the current permit condition restricting clearing within gorge habitat to include similar habitat in the additional area.

A Level 1 fauna survey was conducted of the additional area from 9 to 15 June 2014 by Astron (2014). The majority of the fauna habitat in the additional area was assessed as being high quality (Astron, 2014). There were six fauna habitats mapped within the additional area; gorge, breakaway/escarpment, hill crest, undulating hills, stony plain and drainage line (Astron, 2014). Some areas were also mapped as disturbed which have little value for fauna species. Over 80% of the additional area is comprised of the hill crest and undulating hills

habitat types (Astron, 2014). Both of these habitats were rated as having a low value for fauna in the local area (Astron, 2014). The gorge habitat is of high value for fauna species as it provides refuge for fauna and contains semi-permanent water pools (Astron, 2014). This habitat contains a greater diversity of prey species and supports a number of conservation significant fauna species. The breakaway/escarpment habitat is of value to Northern Quolls (*Dasyurus hallucatus* – Schedule1; Endangered) due to smaller caves and overhangs that could be utilised by the species (Astron, 2014).

The Pilbara Olive Python (*Liasis olivaceus barroni* - Schedule 1; Vulnerable) has been previously recorded within gorge habitat from the original permit boundary. Targeted searches during the current fauna survey did not locate this species, however, it is a cryptic species and the gorge habitat is known to support the Pilbara Olive Python in the area (Astron, 2014). Astron (2014) observed that the water pool where this species has been previously found was silty and affected by sedimentation from the mine. Significant impacts to vegetation in the gorge habitat have the potential to further degrade water pools impacting on prey availability of the Pilbara Olive Python.

The Pilbara Leaf-nosed Bat (*Rhinonicteris aurantius* - Schedule 1; Vulnerable) and Ghost Bat (*Macroderma gigas* - Priority 4) were both recorded within the permit boundary (Astron, 2014). Visual assessment was undertaken of 15 caves in the permit boundary although no evidence of these bat species was identified (Astron, 2014). Calls of both bats were recorded by Astron (2014) within the permit boundary. The Ghost Bat was recorded at one location within the permit boundary and has also been previously recorded from two other locations within the permit boundary (Astron, 2014). It is likely that there is a small number of Ghost Bats using the gorge habitat for foraging and drinking (Astron, 2014). Astron (2014) observed that a pool near to where this species has been previously recorded was filled in due to sedimentation and run-off from the mine. Significant impacts to vegetation in the gorge habitat have the potential to further degrade water pools which the Ghost Bat utilises. The Pilbara Leaf-nosed Bat was recorded in greater abundance than the Ghost Bat and it utilises the gorge and drainage line habitat for foraging and drinking (Astron, 2014). No roosts have been found within the permit boundary, however, the timing of the calls suggests that there is a roosting cave within 3.5 kilometres of the permit area (Astron, 2014).

The Northern Quoll was previously recorded in the original permit boundary but the current survey was unable to detect any quolls within the additional area. The gorge habitat is highly suitable for this species as it contains caves, crevices, overhangs and rocky areas suitable for denning and shelter. The breakaway/escarpment habitat was of moderate value for the Northern Quoll as it contained overhangs, shelter and crevices that provide refugia (Astron, 2014).

The gorge habitat within the additional area is significant for all of these conservation significant species. Impacts to these species may be minimised by extending the current permit condition restricting clearing within gorge habitat to include similar habitat in the additional area.

There are numerous minor perennial watercourses within the additional area (GIS Database). There are numerous vegetation units that are associated with drainage lines in the additional area (Rio Tinto, 2014). Several of the vegetation units (UR-DG-o1, UR-DG-o2, UR-DG-o2E and UR-DG-Elb) are associated with watercourses of the upper parts of the range and are significant for the rocky riparian habitats they provide for Priority flora, riparian flora and fauna (Rio Tinto, 2014). The UR-DG-o2 and UR-DG-o2E units are of particular significance as the gullies are more deeply incised and at times form semi-gorge formations (Rio Tinto, 2014). There are two small permanent/semi-permanent waterholes in the north-east of the additional area (Rio Tinto, 2014). Extending the current permit condition restricting clearing within gorge habitat to include similar habitat in the additional area will also minimise impacts on these waterholes. Potential impacts to watercourses may be minimised by the implementation of a watercourse management condition.

The additional area is mapped as occurring on the Boolgeeda, Marandoo, Newman and Platform land systems (GIS Database). These land systems are not prone to erosion (Van Vreeswyk et al., 2004). Whilst the land systems are inherently resistant to erosion it was observed during the fauna survey of the additional area that waterholes were being adversely impacted by runoff from mining operations (Astron, 2014). Hamersley Iron Pty Ltd should ensure that measures are in place to manage impacts to water quality from minesite runoff.

The nearest conservation area is Karijini National Park which is located approximately 27 kilometres east of the permit boundary (GIS Database). The proposed clearing will not impact on any linkages into the National Park.

The application has been assessed against the clearing principles, planning instruments and other matters in accordance with s.510 of the *Environmental Protection Act 1986*, and the proposed clearing is at variance to Principle (f), may be at variance to Principles (a), (b), (g), (i) and (j) is not likely to be at variance to Principles (c), (d) and (h) and is not at variance to Principle (e).

Methodology	Astron (2014)
	Rio Tinto (2014)
	Van Vreeswyk et al. (2004)
	Western Australian Herbarium (2014)
	GIS Database:
	- Hydrography, linear
	- Rangeland Land System Mapping

- Threatened and Priority Flora

- Threatened Ecological Sites Buffered

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

Comments

There are two Native Title Claims (WC2010/011 and WC2010/016) over the area under application (GIS Database). These claims have been registered with the National Native Title Tribunal on behalf of the claimant groups. However, the mining tenure has been granted in accordance with the future act regime of the *Native Title Act 1993* and the nature of the act (i.e. the proposed clearing activity) has been provided for in that process, therefore the granting of a clearing permit is not a future act under the *Native Title Act 1993*.

There are numerous registered Aboriginal Sites of Significance within the application area (GIS Database). It is the proponent's responsibility to comply with the *Aboriginal Heritage Act 1972* and ensure that no Aboriginal sites of significance are damaged through the clearing process.

It is noted that the proposed clearing may impact on a protected matter under the *Environment Protection and Biodiversity Conservation Act 1999* (the EPBC Act). The proponent may be required to refer the project to the (Federal) Department of the Environment for environmental impact assessment under the *EPBC Act*. The proponent is advised to contact the Department of the Environment for further information regarding notification and referral responsibilities under the *EPBC Act*.

The expansion of the Eastern Range Project has been previously referred to the EPA. On 21 December 2004 the EPA set the level of assessment as 'Not Assessed - Public Advice Given and Managed Under Part V of the EP Act'.

It is the proponent's responsibility to liaise with the Department of Environment Regulation, Department of Parks and Wildlife and the Department of Water, to determine whether a Works Approval, Water Licence, Bed and Banks Permit, or any other licences or approvals are required for the proposed works.

The clearing permit application was advertised on 8 December 2014 by the Department of Mines and Petroleum inviting submissions from the public. No submissions were received in relation to the proposed clearing.

Methodology GIS Database:

- Aboriginal Sites of Significance

- Native Title Claims - Registered with the NNTT

4. References

Astron (2014) Eastern Range Level 1 and Targeted Fauna Survey. Unpublished report prepared for Rio Tinto Iron Ore, dated June 2014.

- Hamersley Iron (2010) Application for a Clearing Permit (Purpose Permit) Mining Operations Tenement AML70/4SA & AML 70/246.
- 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 (2010) Flora and Vegetation Assessment of the Eastern Ranges LOM Study Area (ERSA): Including supporting documentation for a Native Vegetation Clearing Permit Application (SO-10-05940). Unpublished report prepared for Rio Tinto October 2010.

Rio Tinto (2014) Flora and Vegetation Assessment of the Eastern Ranges Study Area. Unpublished report prepared by Rio Tinto, dated November 2014.

Trudgen, M.E. (1998) A Report on Flora and Vegetation of the Port Kennedy Area. Unpublished report prepared for Bowman Bishaw and Associates, West Perth.

Van Vreeswyk, A.M.E., Payne, A.L., Leighton, K.A & Hennig, P. (2004) An Inventory and Condition Survey of the Pilbara Region, Western Australia, Department of Agriculture, Western Australia.

Western Australian Herbarium (2014) FloraBase - The Western Australian Flora. Department of Parks and Wildlife. http://florabase.dpaw.wa.gov.au/> Accessed 2 January 2015.

5. Glossary

Acronyms:

ВоМ	Bureau of Meteorology, Australian Government
DAA	Department of Aboriginal Affairs, Western Australia
DAFWA	Department of Agriculture and Food, Western Australia
DEC	Department of Environment and Conservation, Western Australia (now DPaW and DER)
DER	Department of Environment Regulation, Western Australia
DMP	Department of Mines and Petroleum, Western Australia
DRF	Declared Rare Flora
DotE	Department of the Environment, Australian Government
DoW	Department of Water, Western Australia
DPaW	Department of Parks and Wildlife, Western Australia

DSEWPaC EPA EPAct EPBC Act GIS ha IBRA IUCN PEC RIWI Act s.17 TEC	Department of Sustainability, Environment, Water, Population and Communities (now DotE) Environmental Protection Authority, Western Australia <i>Environmental Protection Act 1986</i> , Western Australia <i>Environment Protection and Biodiversity Conservation Act 1999</i> (Federal Act) Geographical Information System Hectare (10,000 square metres) Interim Biogeographic Regionalisation for Australia International Union for the Conservation of Nature and Natural Resources – commonly known as the World Conservation Union Priority Ecological Community, Western Australia <i>Rights in Water and Irrigation Act 1914</i> , Western Australia Section 17 of <i>the Environment Protection Act 1986</i> , Western Australia Threatened Ecological Community
Definitions:	
(DPaW (2013) C	onservation Codes for Western Australian Flora and Fauna. Department of Parks and Wildlife, Western Australia}:-
т	Threatened species: Specially protected under the <i>Wildlife Conservation Act 1950,</i> listed under Schedule 1 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna or the Wildlife Conservation (Rare Flora) Notice for Threatened Flora (which may also be referred to as Declared Rare Flora).
	Threatened Fauna and Flora are further recognised by DPaW according to their level of threat using IUCN Red List criteria. For example Carnaby's Cockatoo <i>Calyptorynchus latirostris</i> is specially protected under the <i>Wildlife Conservation Act 1950</i> as a threatened species with a ranking of Endangered.
	Rankings: CR: Critically Endangered - considered to be facing an extremely high risk of extinction in the wild. EN: Endangered - considered to be facing a very high risk of extinction in the wild.

VU: Vulnerable - considered to be facing a high risk of extinction in the wild.

X Presumed Extinct species:

Specially protected under the *Wildlife Conservation Act 1950,* listed under Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Presumed Extinct Fauna and Wildlife Conservation (Rare Flora) Notice for Presumed Extinct Flora (which may also be referred to as Declared Rare Flora).

IA Migratory birds protected under an international agreement:

Specially protected under the *Wildlife Conservation Act 1950,* listed under Schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice.

Birds that are subject to an agreement between governments of Australia and Japan, China and The Republic of Korea relating to the protection of migratory birds and birds in danger of extinction.

S Other specially protected fauna:

Specially protected under the *Wildlife Conservation Act 1950,* listed under Schedule 4 of the Wildlife Conservation (Specially Protected Fauna) Notice.

P1 Priority One - Poorly-known species:

Species that are known from one or a few collections or sight records (generally less than five), all on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, Shire, rail reserves and Main Roads WA road, gravel and soil reserves, and active mineral leases and under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes.

P2 Priority Two - Poorly-known species:

Species that are known from one or a few collections or sight records, some of which are on lands not under imminent threat of habitat destruction or degradation, e.g. national parks, conservation parks, nature reserves, State forest, unallocated Crown land, water reserves, etc. Species may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes.

P3 Priority Three - Poorly-known species:

P4

Species that are known from collections or sight records from several localities not under imminent threat, or from few but widespread localities with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and known threatening processes exist that could affect them.

Priority Four - Rare, Near Threatened and other species in need of monitoring:

- (a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands.
- (b) Near Threatened. Species that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.
- (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

Priority Five - Conservation Dependent species:

Species that are not threatened but are subject to a specific conservation program, the cessation of which would result in the species becoming threatened within five years.

Principles for clearing native vegetation:

- (a) Native vegetation should not be cleared if it comprises a high level of biological diversity.
- (b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.
- (c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.
- (d) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community.
- (e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.
- (f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.
- (g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.
- (h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.
- (i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.
- (j) Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.