

Hon Mark McGowan MLA Minister for the Environment; Racing and Gaming

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Statement No.

000718

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

### GWINDINUP MINERAL SANDS MINE SHIRE OF CAPEL

**Proposal:** The construction and operation of a mineral sands mine at Gwindinup, located within the Shire of Capel, approximately 25 kilometres south-south-east of Bunbury and between two and ten kilometres south of the town of Boyanup, as documented in schedule 1 of this statement.

Proponent: Cable Sands (WA) Pty Ltd

**Proponent Address:** PO Box 133, BUNBURY WA 6231

Assessment Number: 1259

Report of the Environmental Protection Authority: Bulletin 1185

The proposal referred to above may be implemented by the proponent subject to the following conditions and procedures:

### 1 Implementation

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

### 2 **Proponent Commitments**

2-1 The proponent shall implement the environmental management commitments documented in schedule 2 of this statement.

Published on 0 5 APR 2006

### 3 **Proponent Nomination and Contact Details**

- 3-1 The proponent for the time being nominated by the Minister for the Environment under section 38(6) or (7) of the *Environmental Protection Act 1986* is responsible for the implementation of the proposal until such time as the Minister for the Environment has exercised the Minister's power under section 38(7) of the Act to revoke the nomination of that proponent and nominate another person as the proponent for the proposal.
- 3-2 If the proponent wishes to relinquish the nomination, the proponent shall apply for the transfer of proponent and provide a letter with a copy of this statement endorsed by the proposed replacement proponent that the proposal will be carried out in accordance with this statement. Contact details and appropriate documentation on the capability of the proposed replacement proponent to carry out the proposal shall also be provided.
- 3-3 The nominated proponent shall notify the Department of Environment of any change of contact name and address within 60 days of such change.

### 4 Commencement and Time Limit of Approval

4-1 The proponent shall substantially commence the proposal within five years of the date of this statement or the approval granted in this statement shall lapse and be void.

Note: The Minister for the Environment will determine any dispute as to whether the proposal has been substantially commenced.

4-2 The proponent shall make application for any extension of approval for the substantial commencement of the proposal beyond five years from the date of this statement to the Minister for the Environment, prior to the expiration of the five-year period referred to in condition 4-1.

The application shall demonstrate that:

- 1. the environmental factors of the proposal have not changed significantly;
- 2. new, significant, environmental issues have not arisen; and
- 3. all relevant government authorities have been consulted.

Note: The Minister for the Environment may consider the grant of an extension of the time limit of approval not exceeding five years for the substantial commencement of the proposal.

### 5 Compliance Audit and Performance Review

5-1 The proponent shall prepare an audit program and submit compliance reports to the Department of Environment which address:

- 1. the status of implementation of the proposal as defined in schedule 1 of this statement;
- 2. evidence of compliance with the conditions and commitments; and
- 3. the performance of the environmental management plans and programs.

Note: Under sections 48(1) and 47(2) of the *Environmental Protection Act 1986*, the Chief Executive Officer of the Department of Environment is empowered to monitor the compliance of the proponent with the statement and should directly receive the compliance documentation, including environmental management plans, related to the conditions, procedures and commitments contained in this statement.

5-2 The proponent shall make all compliance reports publicly available on request.

### 6 Fauna - Western Ringtail Possum (*Pseudocheirus occidentalis*)

- 6-1 Prior to any ground-disturbing activities, the proponent shall conduct a site survey to identify the presence and abundance of Western Ringtail Possums located within the Gwindinup North and Gwindinup South mining areas, to the requirements of the Minister for the Environment on advice of the Department of Conservation and Land Management.
- 6-2 Should the survey referred to in condition 6-1 identify the presence of Western Ringtail Possums the proponent shall prior to ground disturbing activities, relocate the population of Western Ringtail Possums, to another suitable habitat, or provide other suitable habitat, to the requirements of the Minister for the Environment on advice of the Department of Conservation and Land Management.

### 7 Groundwater Extraction from the Leederville Aquifer

7-1 The proponent shall not carry out mining activity or other ground-disturbing activity which intersects, or dewaters from, the Leederville geological formation, unless the proponent has demonstrated to the satisfaction of the Minister for the Environment that the activity will not unreasonably interfere with existing established use of the resource.

### 8 Integrated Mining and Rehabilitation Plan

8-1 The proponent shall carry out rehabilitation in accordance with an Integrated Mining and Rehabilitation Plan prepared to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority, the Department of Conservation and Land Management and the Department of Industry and Resources.

The objectives of this Plan are:

- to ensure that rehabilitation and closure planning are considered as an integral part of mine planning, development and operation; and
- to ensure that rehabilitation and closure are subsequently carried out successfully.

The areas to be rehabilitated are shown on figure 2 and figure 3 of schedule 1.

This Plan shall include the following:

- 1. Re-introduction of native vegetation in all rehabilitation areas using native plant species of local provenance;
- 2. Preparation of an ecological baseline for vegetation coverage which includes high-resolution mapping (showing geographic coordinates) and assessment prior to clearing;
- 3. Collection of baseline information on the pre-mining soil profiles;
- 4. Collection of baseline information on the hydrology of the Gwindinup North site, including surface expressions of the groundwater (paluslope wetlands) and Gynudup Brook, before mining;
- 5. Collection of baseline information on the hydrology of the Gwindinup South site before mining;
- 6. Preparation of plans for re-establishing soil and hydrological conditions comparable to those which existed before mining, for both the Gwindinup North and Gwindinup South sites; procedures for soil profile restoration; restoration of hydrogeological characteristics; revegetation (including Priority Flora); and dieback and weed control;
- 7. Specific rehabilitation criteria to be achieved for the re-establishment of vegetation comparable to the pre-mining vegetation type for each area, including criteria for the re-establishment of all Priority species and any other species of particular conservation significance, such as undescribed species of flora;
- 8. Objectives, requirements and framework for stakeholder consultation and reporting;
- 9. Protection of remnant vegetation on the mining lease areas from mining and nonmining impacts;
- 10. A final land use/landform plan;
- 11. A strategy which integrates the mining and rehabilitation schedules and requirements;
- 12. A program to monitor rehabilitation success and to compare with criteria to be achieved;
- 13. Contingency measures in the event that expected performance is not achieved; and
- 14. Internal review, audit and continual improvement.
- 8-2 The proponent shall make the Integrated Mining and Rehabilitation Plan required by condition 8-1 publicly available.

### 9 Vegetation Conservation

9-1 The proponent shall protect remnant native vegetation, classified as being in "good" or better condition, within the project area and which is not proposed to be disturbed by mining and associated activities, from other potentially threatening processes, such as grazing and fire, through the establishment of Managed Protection Areas, to the requirements of the Minister for the Environment on advice of the Department of Industry and Resources and the Department of Conservation and Land Management.

### 10 Groundwater

10-1 Prior to any ground-disturbing activities and during mining, the proponent shall monitor groundwater in accordance with a Groundwater Monitoring and Management Plan prepared in consultation with adjoining and nearby landowners and to the requirements of the Minister for the Environment on advice of the Department of Environment and the Department of Conservation and Land Management.

The objectives of this Plan are:

- to take management action to avoid impacts upon native vegetation adjacent to the Gwindinup North and Gwindinup South mining areas;
- to manage impacts on local water supplies; and
- to monitor groundwater levels.

This Plan shall:

- 1. include baseline data on native vegetation health prior to mining or groundwater extraction;
- 2. define locations for groundwater monitoring stations;
- 3. define trigger levels for management actions to be taken in the event that impacts on groundwater are likely to affect native vegetation;
- 4. define management actions (contingency measures) to be implemented in the event that unacceptable impacts on native vegetation occur as a result of groundwater drawdown;
- 5. define management actions (contingency measures) to be implemented in the event that unacceptable impacts on local water supplies occur as a result of groundwater drawdown; and to establish procedures for landowners to report any interruptions to their water supplies, and for the timely resolution as to whether this has been caused by mining operations, along with the timely reinstatement of a similar capacity water supply; and
- 6. be subject to independent technical review prior to finalisation.
- 10-2 The proponent shall make the Groundwater Monitoring and Management Plan required by condition 10-1 publicly available.

### 11 Fencing - Gwindinup North

11-1 Within six months following the completion of mining, the proponent shall install fencing around the entire perimeter of the native vegetation at the Gwindinup North site.

The precise area to be fenced and the type of fencing shall be to the requirements of the Minister for the Environment on advice of the Department of Conservation and Land Management.

The fenced area shall include:

- 1. remnant vegetation in good or better condition or possessing habitat or linkage values;
- 2. all areas to be rehabilitated and reclaimed to native vegetation;
- 3. the area of Gynudup Brook on the proponent's property;
- 4. the paluslope wetland; and
- 5. the area containing the vegetation unit "Tree mallee of *Eucalyptus decipiens* over an Open Shrubland of mixed species over a Grassland in sand", as identified in figure 3D of the Addendum to the Consultative Environmental Review (See figure 5).

### 12 Fencing - Gwindinup South

12-1 Within six months following the completion of mining, the proponent shall install fencing around the perimeter of the Conservation Covenant Area as shown on figure MO3B of the Addendum to the Consultative Environmental Review (See figure 4).

The precise area to be fenced and the type of fencing shall be to the requirements of the Minister for the Environment on advice of the Department of Conservation and Land Management.

12-2 Within six months following the completion of mining, the proponent shall install fencing around the perimeter of the rehabilitation/reclamation areas outlined in figure RO3F of the Addendum to the Consultative Environmental Review (See figure 3).

The precise area to be fenced and the type of fencing shall be to the requirements of the Minister for the Environment on advice of the Department of Conservation and Land Management.

### Procedures

- 1. Where a condition states "to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority", the Environmental Protection Authority will provide that advice to the Department of Environment for the preparation of written notice to the proponent.
- 2. The Environmental Protection Authority may seek advice from other agencies or organisations, as required, in order to provide its advice to the Department of Environment.
- 3. Where a condition lists advisory bodies, it is expected that the proponent will obtain the advice of those listed as part of its compliance reporting to the Department of Environment.

### Notes

- 1. The Minister for the Environment will determine any dispute between the proponent and the Environmental Protection Authority or the Department of Environment over the fulfilment of the requirements of the conditions.
- 2. The proponent is required to apply for a Works Approval and Licence for this project under the provisions of Part V of the *Environmental Protection Act 1986*.
- 3. The proponent is required to apply for a permit to alter the bed and banks of Gynudup Brook and a licence to take water from the Superficial and Yarragadee aquifers for this project under the provisions of the *Rights in Water and Irrigation Act 1914*.

### HON MARK McGOWAN MLA MINISTER FOR THE ENVIRONMENT; RACING AND GAMING

0 5 APR 2006

### Schedule 1

### The Proposal (Assessment No. 1259)

The proposal is to mine mineral sands at Gwindinup, located within the Shire of Capel, approximately 25 kilometres south south-east of Bunbury and between 2 and 10 kilometres south of the town of Boyanup. The proposal includes the clearing of native vegetation and pasture covering two orebodies, Gwindinup North and Gwindinup South; mining and processing of the heavy minerals within these two ore bodies; and rehabilitation of all areas disturbed.

The processing of the heavy minerals will require the operation of a processing plant; truck haulage of minerals products offsite; and the generation of storage facilities for tailings, overburden, fines, topsoil and process water.

The proponent will also place a conservation covenant on the title of a lot containing 16 hectares of the Cartis Vegetation complex (See figure 1).

The key proposal characteristics are shown in table 1.

Element	Total	Gwindinup North	Gwindinup South 39 (Oct '08 to Jul '11)	
Mining period (approximate months)	75 (consecutive)	42 (Oct '05 to Mar '09)		
Ore body (tonnes) approximate	9,812,500	5,100,000	4,712,000	
Heavy Mineral Concentrate production (tonnes) approximate	912,500	490,000	422,500	
Overburden (bank cubic metres) approximate	13,125,000	6,300,000	6,825,000	
Depth of mine (metres) approximate	-	26	28	
Estimated mine footprint (hectares) maximum	361	185	176	
Native vegetation cleared (hectares) maximum	24.5	16	8.5	
Cleared native vegetation rehabilitated (hectares) minimum	15	15	8.5	
Native vegetation reclaimed (hectares) minimum	45	40	5	
Total native vegetation rehabilitated + reclaimed (hectares) minimum	60	55	13.5	

### Table 1 – Key Proposal Characteristics

Area in conservation covenants (minimum)	16 hectares of Cartis vegetation at Gwindinup South and the area around Gynudup Brook and the paluslope wetland at Gwindinup North.
Operating hours	24 hours per day for 7 days per week (maximum)
Mining rate (tonnes per year) approximate	2,000,000 for each plant operating 24 hours per day for 7 days per week
Heavy Mineral Concentrate Production (tonnes per year) approximate	240,000 (maximum) for each plant operating 24 hours per day for 7 days per week
Number of separation plants	1
Water supply source	Production bore in Yarragadee aquifer
Water usage (ML/year)	1,500 (approximate)
Fuel storage (kL)	100 for each plant (approximate)
Fuel usage (kL/year)	2,300 (approximate)
Heavy Mineral Concentrate haulage (trucks/day)	10 on average
Haulage times	7:00 am to 8:00 pm Monday to Saturday, 9:00 am to 8:00 pm Sundays and public holidays.
Haulage days	7 days per week
Power supply	Western Power grid 22kV

### Key

ML – Mega litres kL – Kilo litres

### Figures (attached)

Figure 1 Location Plan.

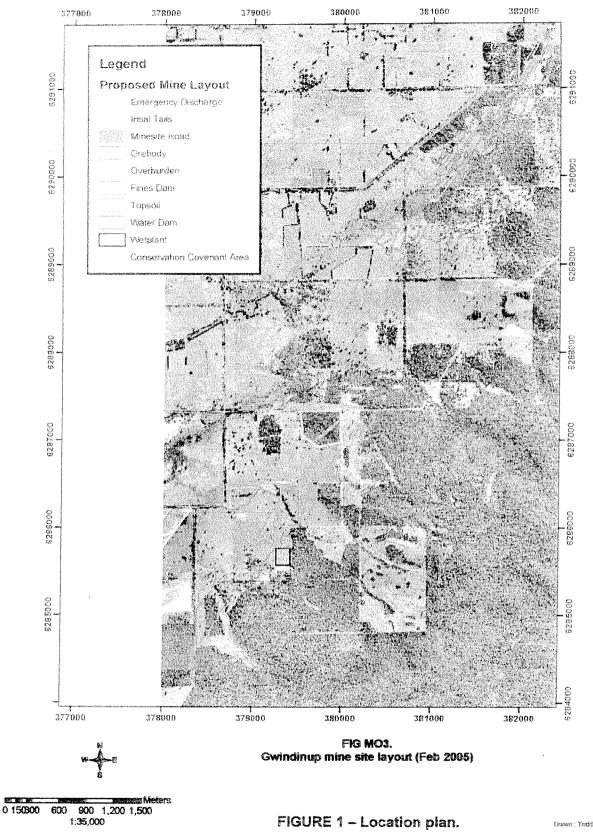
Figure 2 Baseline vegetation descriptions, mine layout and rehabilitation plan for Gwindinup North (Revised May 05).

Figure 3 Baseline vegetation descriptions, mine layout and rehabilitation plan for Gwindinup South.

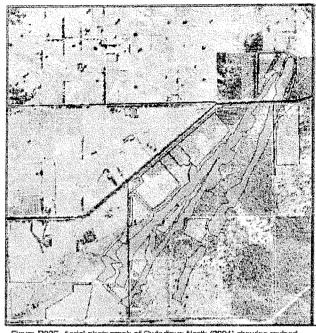
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Figure 4 Gwindinup South mine site layout (Feb. 05).

Figure 5 Vegetation associations.



Drawn : Todd Griffist



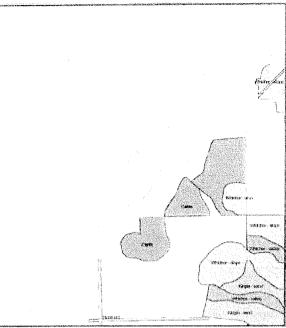


Figure R02E. Asrial photograph of Gwindmup North (2001) showing revised since plan. Brown areas are orehodies (pits) and gold areas are intrastructure locations.

Figure R02F. Vegetation Complexes for Gwindinup North, from BEC 2003.

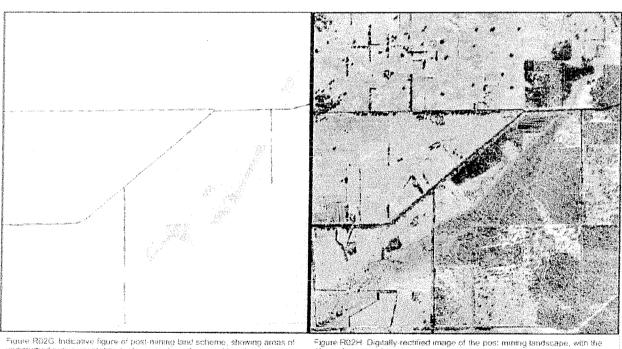


Figure R02G. Indicative figure of post-mining land scheme, showing areas nt undisturbed native vigoration (risk green, based on condition 4 or better, from BEC 2004a), mine areas rehabilitated to pre-existing native vegetation (honcontal fift) and where degrated or cleared and will be reclaimed to native vegetation (vertical filt). The processed mine plan and cadastral boundaries are also shown (grey).

Figure Pozzri Digitally-recorded integer of the post moting landscapa, with the 43 ha of proposed native vegetation rectamation outlined in blue.

1 km

Figure R02 (Continued) Baseline vegetation descriptions, mixe layout and rehabilitation plan for Gwindinup North (Flevised Nay 65).

FIGURE 2

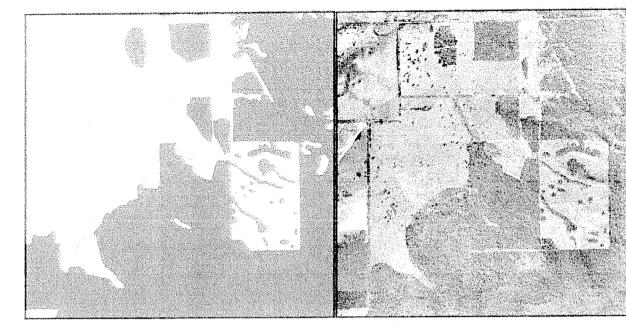


Figure R03E Owindinup South post-mining conceptual landscape plan. Undisturbed native vegetation (grean) and rehabilitated native vegetation (blue outline) over the shaded mine plan (ye&ow). Figure R03F Digitally-rectified image of the post-mining landscape, with the native vapsization rehabilitation/reclamation areas outlined.

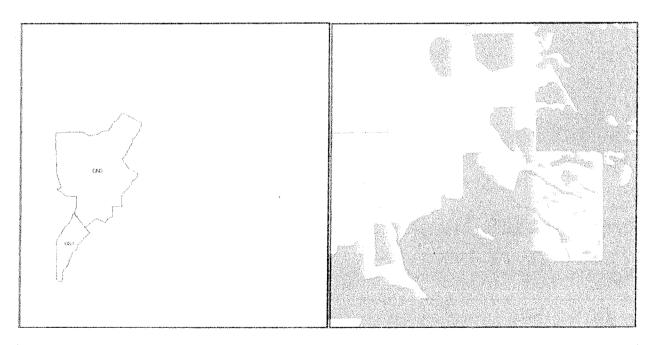


Figure R03G Target soil profiles, as described in the MRP and CER Supplement, for restoration of the mixed area, Gwindinup South.

Figure R03H Pre-mining drainage map of Gwindinup South and surrounds.

Figure R02 (Continued) Easekine vegetation descriptions, mine layout and rehabilitation plan for Gwindinup South

### FIGURE 3

## Proponent's Environmental Management Commitments

January 2006

# GWINDINUP MINERAL SANDS MINE SHIRE OF CAPEL

(Assessment No. 1259)

Cable Sands (WA) Pty Ltd

Proponent's Environmental Management Commitments – January 2006

# GWINDINUP MINERAL SANDS MINE, SHIRE OF CAPEL (Assessment No. 1259)

Note: The term "commitment" as used in this schedule includes the entire row of the table and its six separate parts as follows:

- a commitment number;
  - a commitment topic;
- the objective of the commitment;
- the 'action' to be undertaken by the proponent;
- the timing requirements of the commitment; and
- the body/agency to provide technical advice to the Department of Environment.

No.	Topic	Objective	Action	Timing	Advice
(	Vegetation Conservation	To minimise impacts from the implementation of the proposal on local vegetation and flora	Formally protect 16 hectares of Cartis vegetation on Lot 3829 on Plan 159575, Wellington Location 3829 by installing a conservation covenant on the title of the property and fencing the perimeter to exclude stock.	Within 18 months following receipt of Ministerial Approval for mining.	-
7	Environmental Management and Monitoring	To minimise environmental impacts from the development and operation of the proposal.	<ul> <li>Prepare an Environmental Management and Monitoring Program (EMMP) which addresses the following:</li> <li>management of dust;</li> <li>management of fauna, including pest control;</li> <li>management of greenhouse gases to minimise emissions and intensity; and</li> <li>management of visual amount of manhy of manhy contributed horizons</li> </ul>	Prior to any ground- disturbing activities	DolR CALM
ς,			Implement the Environmental Management and Monitoring Program.	During Development, Mining Operation and Decommissioning	DolR
4			Make the Environmental Management and Monitoring Program publicly available.	During Development, Mining Operation and Decommissioning.	

Local Stakeholders.			
Prior to any ground- disturbing activities	During Mining Operation During Development, Mining Operation and Decommissioning	During Development, Mining Operation and Decommissioning	
<ul> <li>Prepare a Water Resources Management Plan (WRMP) which addresses the following:</li> <li>definition of resource</li> <li>identification of surrounding resource users;</li> <li>detailed assessment of the local groundwater and surface water hydrology, using base-line data;</li> <li>identification and assessment of risks to water users and water-dependent ecosystems (including remnant vegetation);</li> <li>management options (avoid/minimise/mitigate) for the identified risks;</li> <li>a monitoring, review and reporting program; and</li> <li>contingency plans, including complaint response procedures.</li> </ul>	Implement the Water Resources Management Plan. Make the Water Resources Management Plan publicly available.	<ul> <li>Resolve a dispute or difference with users of local water supplies in a process which includes the following key elements:</li> <li>If a dispute or difference between users of local water supplies and the proponent arises, any party may give the other written notice of the dispute or difference, adequately identifying and providing details.</li> <li>The parties will then confer to resolve the dispute or difference, or agree on methods of doing so.</li> <li>If the dispute or difference is not resolved, the parties will agree to settle the dispute or difference by expert determination administered by the Australian Commercial Disputes Centre Ltd.</li> <li>The expert determination will be final and binding on the parties involved.</li> <li>The proponent will meet reasonable costs as determined by the "expert".</li> </ul>	
To minimise impacts from the development and operation of the proposal on local surface and ground water resources		To resolve disputes or differences between users of local water supplies and the proponent regarding impacts from the development and operation of the proposal on local surface and ground water resources.	
W ater Kesources Management		Water Resources Management (Dispute resolution)	
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CALM DoIR CS&LC	CALM	CALM
At least 6 months prior to full Decommissioning.	Decommissioning	Decommissioning Within 12 months following the completion of mining.
<ul> <li>Prepare a Decommissioning Plan which includes the following elements:</li> <li>stakeholder consultation;</li> <li>end users;</li> <li>removal or, if appropriate, retention of mining infrastructure;</li> <li>identification of contaminated sites, including notification to relevant statutory authorities;</li> <li>rehabilitation;</li> <li>management of conservation areas; and</li> <li>care and maintenance.</li> </ul>	Implement the Decommissioning Plan.	Place a covenant over the areas to be fenced in accordance with Within 12 months Condition 11, acknowledging that portions of these areas may be used as following the completion offsets for other projects.
To minimise impacts during and following closure		To protect important areas of native vegetation, wetlands and ecological linkages.
9 Decommissioning	10	12 Covenant

# Abbreviations

DoIR - Department of Industry & Resources CALM - Department of Conservation & Land Management CS&LC - Commissioner of Soil & Land Conservation

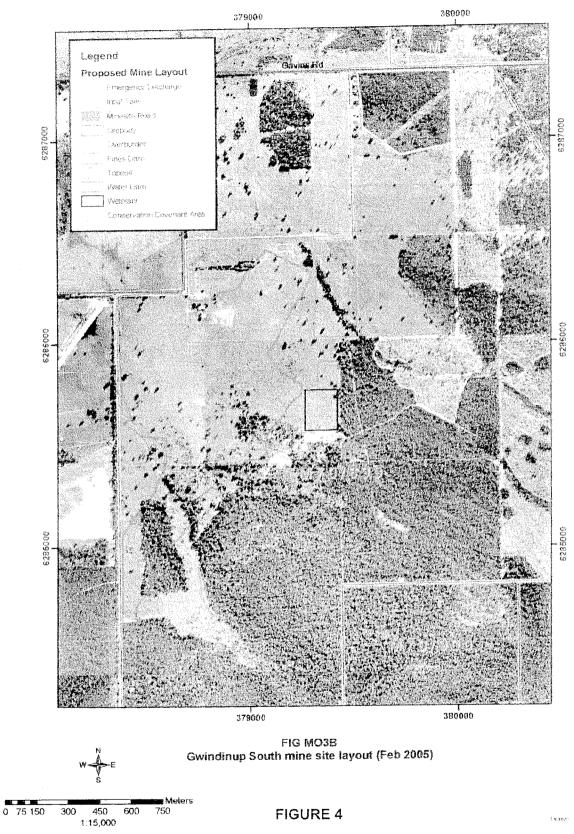
Schedule 3

# Figures from the Addendum to the Consultative Environmental Review (2005)

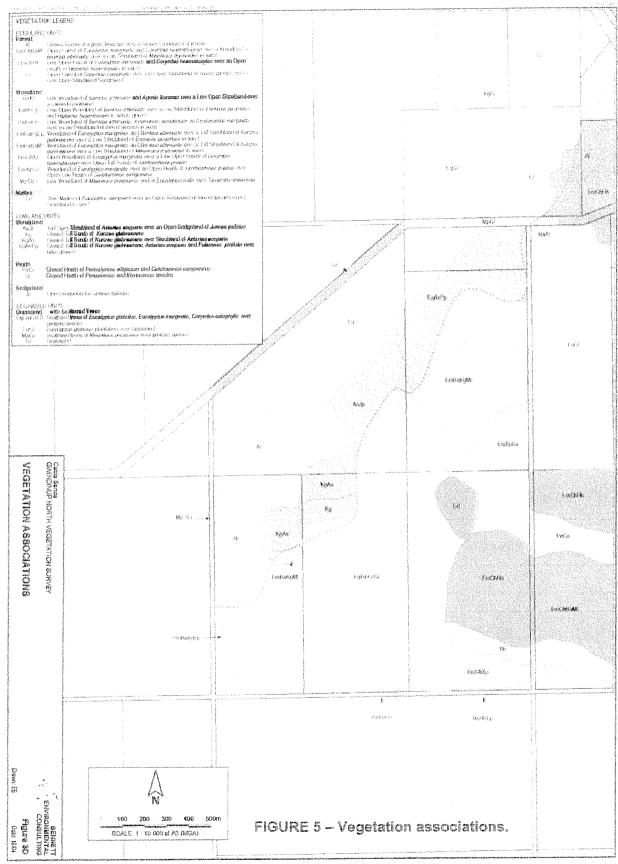
# GWINDINUP MINERAL SANDS MINE SHIRE OF CAPEL

(Assessment No. 1259)

Cable Sands (WA) Pty Ltd



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### Attachment 1 to Statement 718

Change to Proposal

### Proposal: Gwindinup Mineral Sands Mine, Shire of Capel

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### Proponent: Cable Sands (WA) Pty Ltd

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**Change:** Clear an additional 4.3 hectares of native vegetation, increase the mine footprint, increase the amount of ore mined and change the mining period.

Element	cs of original Propo	Gwindinup North	Gwindinup South			
Mining period (approximate	75 (consecutive) 42 39					
months)	(Oct 05 to Mar 09) (Oct 08 to Jul 11)					
Ore body (tonnes) approximate	9,812,500 5,100,000 4,712,000					
Heavy Mineral Concentrate	912,500	490,000	422,500			
production (tonnes) approximate						
Overburden (bank cubic metres)	13,125,000 6,300,000 6,825,000					
approximate						
Depth of mine (metres)	-	26	28			
approximate						
Estimated mine footprint	361	185	176			
(hectares) maximum						
Native Vegetation cleared	24.5	16	8.5			
(hectares) maximum	,					
Cleared native vegetation	15	15	8.5			
rehabilitated (hectares) minimum						
Native vegetation reclaimed	45	40	5			
(hectares) minimum						
Total native vegetation	60	55	13.5			
rehabilitated + reclaimed						
(hectares) minimum						
Area in conservation covenants		s vegetation at Gwind	-			
		nup Brook and the p	aluslope wetland at			
	Gwindinup North					
Operating hours	24 hours per day for 7 days per week (maximum)					
Mining rate (tonnes per year)	2,000,000 for each plant operating 24 hours per day for 7 days					
approximate	per week					
Heavy Mineral Concentrate	240,000 (maximum) for each plant operating 24 hours per day					
Production (tonnes per year)	for 7 days per week					
approximate						
Number of separation plants						
Water supply source	Production bore in Yarragadee aquifer					
Water usage (ML/year)	1,500 (approximate)					
Fuel storage (kL)	100 for each plant (approximate)					
Fuel usage (kL/year)	2,300 (approximate)					
Heavy Mineral Concentrate	10 on average	,				
haulage (trucks/day)	7.00					
Haulage times	7.00am to 8.00pm Monday to Saturday					
тт 1 1		ndays and public holid	lays			
Haulage days	7 days per week					
Power supply	Western Power grid 22kV					

Kev Proposal	Characteristics (	of original Proposal:
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Key Proposal Characteristics of changed Proposal:						
Element	Total Gwindinup North Gwindinup South					
Mining period (approximate	75 (consecutive) 46 39					
months)	(Mar 08 to Dec 11) (Mar 11 to May 14)					
Ore body (tonnes) approximate	10,973,499	6,261,499	4,712,000			
Estimated mine footprint	415	239	176			
(hectares) maximum						
Native Vegetation cleared	28.8	20.3	8.5			
(hectares) maximum						
Cleared native vegetation	28.5	20	8.5			
rehabilitated (hectares) minimum						
Cleared pasture rehabilitated to	50 45 5					
native vegetation (hectares)						
minimum						
Area in conservation covenants	•	s vegetation at Gwind	•			
		nup Brook and the p	aluslope wetland at			
	Gwindinup North					
Operating hours	24 hours per day for 7 days per week (maximum)					
Mining rate (tonnes per year)	2,000,000 for each plant operating 24 hours per day for 7 days					
approximate	per week					
Number of separation plants	1					
Water supply source	Production bore in Yarragadee aquifer					
Water usage (ML/year)	1,500 (approximate)					
Fuel storage (kL)	100 for each plant (approximate)					
Fuel usage (kL/year)	2,300 (approximate)					
Heavy Mineral Concentrate	10 on average					
haulage (trucks/day)	~					
Haulage times	7.00am to 8.00pm M					
L	9.00am to 8.00pm Sundays and public holidays					
Haulage days	7 days per week					
Power supply	Western Power grid 22kV					

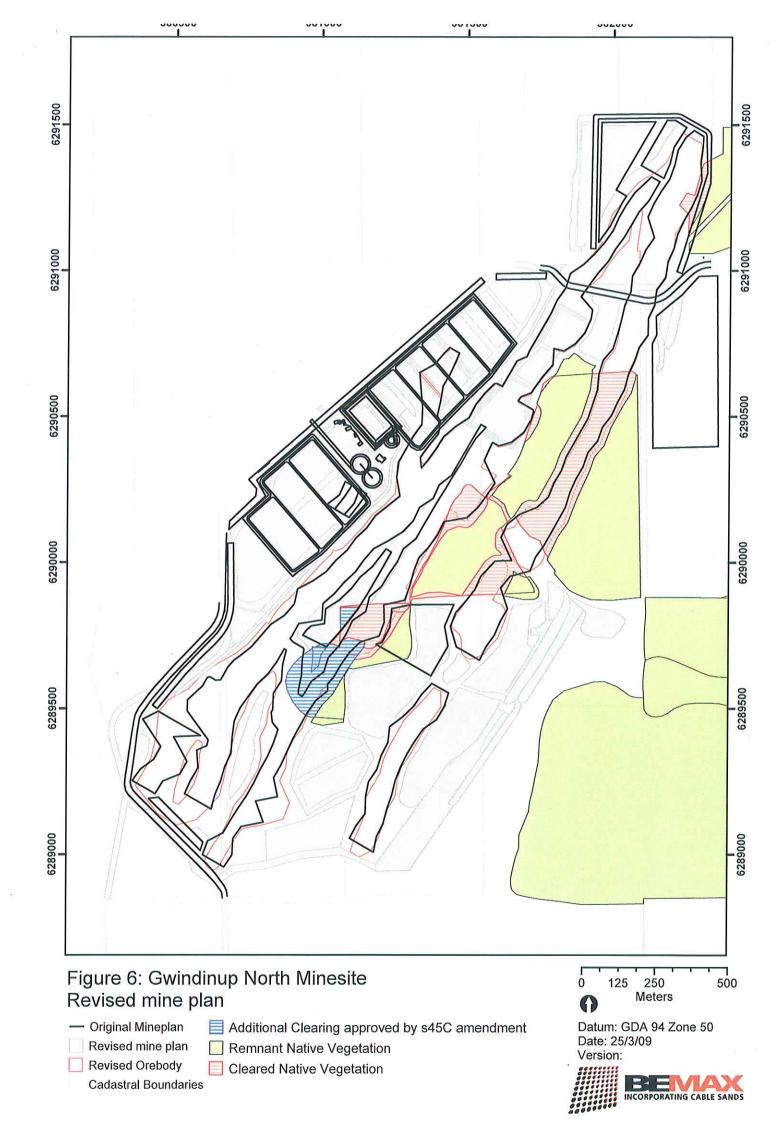
### Koy Proposal Characteristics of abanged Proposal

### Figures (Attached)

Figure 6 – Gwindinup North mine site: Comparison of original mine plan and revised mine plan

Dr Paul Vogel CHAIRMAN **Environmental Protection Authority** under delegated authority

Approval date:  $\mathscr{B} \cdot \mathscr{Y} \cdot \mathscr{O}_{7}$ 



### Attachment 2 to Ministerial Statement 718

### Change to Proposal

### **Proposal:** Gwindinup Mineral Sands Mine, Shire of Capel

Proponent: Cable Sands (WA) Pty Ltd

# **Change:** Increase the mine footprint, increase the amount of ore mined and change the mining period

### **Key Characteristics Table:**

	Description of proposal <u>Description of approved change</u> <u>Proposal</u>				change to			
Element	TotalGwindinup NorthGwindinup SouthTotalGwindinup NorthGwindinup South							
Mining period (approximate months)	75 (consecutive)         46 (Mar 08 to Dec 11)         39 (Mar 11 to May 14)         75 (consecutive)         55 (Mar 08 to Sep 12)         39 (Mar 12 to May 15)							
Ore body (tonnes) approximate	10,973,499 6,261,499 4,712,000 <b>11,704,556</b> 6,992,556 4,712,000							
Estimated mine footprint (hectares) maximum	415 239 176 <b>417 240.4</b> 176							
Native Vegetation cleared (hectares) maximum	28.8 20.3 8.5 28.8 20.3 8.5							
Cleared native vegetation rehabilitated (hectares) minimum	28.5 20 8.5 28.5 20 8.5							
Cleared pasture rehabilitated to native vegetation (hectares) minimum	50 45 5 50 45 5							
Area in conservation covenants		16 hectares of Cartis vegetation at Gwindinup South and the area around Gwindinup Brook and the paluslope wetland at Gwindinup North						
Operating hours	24 hours per day for 7 days per week (maximum)							
Mining rate (tonnes per year) approximate	2,000,000 for each plant operating 24 hours per day for 7 days per week							
Number of separation plants	1							
Water supply source	Production bore in Yarragadee aquifer							
Water usage (ML/year)	1,500 (approximate)							
Fuel storage (kL)	100 for each plant (approximate)							
Fuel usage (kL/year)	2,300 (approximate)							
Heavy Mineral Concentrate haulage (trucks/day)	10 on average							
Haulage times	7.00am to 8.00pm Monday to Saturday 9.00am to 8.00pm Sundays and public holidays							
Haulage days	7 days per we	eek						
Power supply	Western Pow	er grid 22kV						

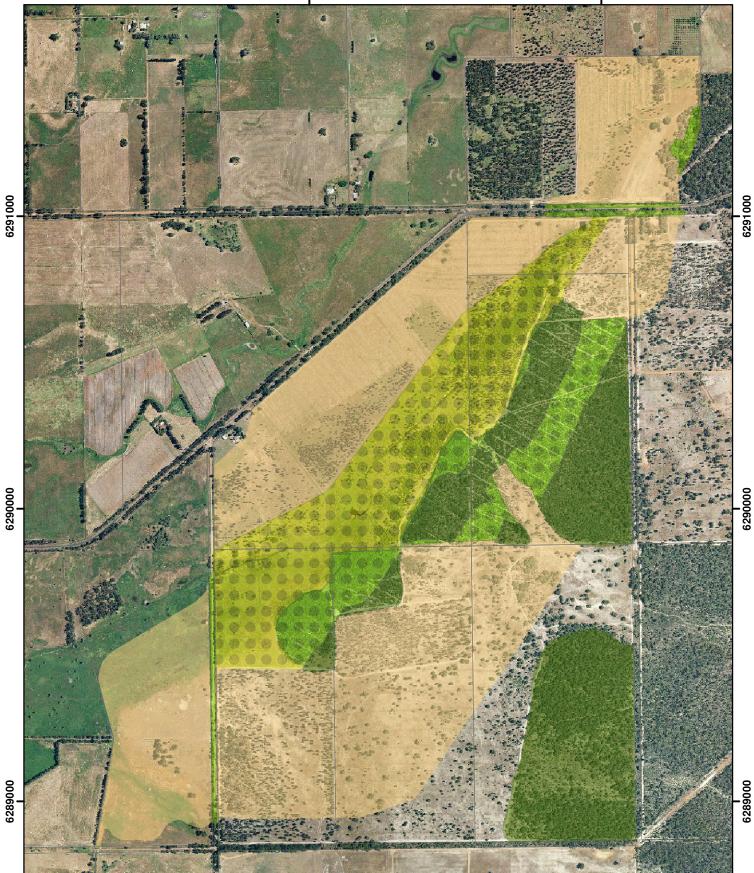
Note: Text in bold in the key characteristics table, indicates change/s to the proposal.

Figure 2: Post-mining land use (revised October 2011)

**Figure 6:** Gwindinup North Mine site: Revised mine plan (updated 19/9/2011)

**Dr Paul Vogel** CHAIRMAN Environmental Protection Authority

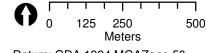
Approval date: 24 November 2011



🧧 Reclaimed native vegetation 📕 Undisturbed native vegetation

Rehabilitated native vegetation

Rehabilitated pasture



Datum: GDA 1994 MGAZone 50 Date: 5/10/2010

381000

382000

